



I Couldn't Get the Good Things of Life Then I Quit My Job and "Found" Myself

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and report work in them. The field Middle inderes soul finer hand points to tra, so you as no how I should us my have been by a start a year appoint of a west a costly-apped circle. It was atruggling along a startments indexy calls by addition my year were conside and I now put what west to matty: wells see "Here's the starty of flue"

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Levis warred to go in and tell her father access weithed to go in and ten hav failur hours a right away, no we find. He sort of revived when we told have the cavet, and deal Leenes to lower ps ideals. And my easy begus to rink as I looked at his free. So yes and Losse have dacked to get

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"Thris ecough, Mr. Satlaca," I said "How a heart. I can see things pretty sharby new, things I was kidding regard short before. Let me go hears and their the over." And have I woot, mor mind in

At home I turned the problem over and over in my reliad. I'd popped the question over is my man in poped to a question at Lound on mapping, without thinking is out. Encryphing Mr. Sathrun had aid was goo-pel truth I couldn't see neything to do, my way to same Bet I had to have more money

al my cyck as advertisement teleng or one opporting/test for trained men to microad in the great new Rafts field. With the obser-lating is a compate affective x big free body field a biformation. I any the compation and have a more can proper to quickly and analy nt have to take advantage of these opportunities. I read the book carefully, and when I firmhed it I reads any domains

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No. 2





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THE WONDERS OF GRAVITATION



HAINED as we see to our plant by the force of gravitation, we become so accustomed to it that we havely ever quotient the nature of this force that helds as down. The average nativelyil down not used so that they here is noticed adoutte food weight, are does her reside that it works tre-

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In his most intervising articles, beginning in this inner of Sensors Wearant Stromar, Capture Neordrang has considered all these points contribly, and he has made several highly mocormut and surversize devicements.

The idea of weight lates all measing in "free space." For instance, if you are in the interior of a space first, away from the infinite of other basevally boling, although yor by the pulse at 150 pounds on earth, your weight now because zero, in other words, weight pours "weight now because zero.

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integration that the balance the spin one over of the much instruction, the or knows which have a flow rate of 10 or flow, we would find that according to earth standards, the Loverism would related the standards of the standards, the standards are staredy (10000) provide. By colorism, we call that the lodge or which net are to hard the shap must be a sphere net lange that according to the star start of the start of the density of the spin-start of the start of the start of the density of the spin-start of the start of the start of the density of the spin-start of the start of the start of the start flow of Carry in the density of the welfson startening.

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An our over pulting, intra other thang, sell be because One is, has we first must have seen feet nucleoted to the plane. If we do not have not an origination of the transmission of these mass, would be that and a so planet in structure in and the transmission of the transmission of the transmission of By external core foot with intrapts in the planet, we oblition has it is constitute to the planet were done have meeting only 000 possible. And it has planet were different new meeting only 000 possible, and it has planet were also were done to be the structure over, we would be the transmission of the transmi

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All very supplies, be nevertheless true in the light of ocientifi reconside



I fired on the instant and had the incir to shutter the vessel, spinching the legal over his person. His purple robe was extra away; his lich was dyed a deep purple and particily consumed.

CHAPTER I

The Mountain of the Moon

EFORE me, not half a mile away, may the nearest ramparts of the Mountain of the erably hot. Heat wayes danced cesselessly over the The black cliffs rose cold and solid in the east-n barrier of dark menare. Pillars of black besalt, of dark hornblende, and of black obsidian rose in a precipitons will of sharp and isound or the mere a thousand feat, and nowhere was the escaroment less than half that high. It was with mingled Mountain of the Moon

It was a year since I had left medical college in America to begin practise in Perth, Australia, There Austen, the well-known radiologist, archeologist, and explorer. He had been my dearest friend. That with our comradeship. It was he who had paid most of my expenses in school. He had left me at Perth, and went on to investigate some currous western part of the Great Victoria Desert. Three ns, and the desert had swallowed him up. But it

My uncle was an ardent mdio enthusiast, and that we nicked up the remarkable message from my lost trited that led me to abandon my practise. and, heading the call of adventure that has always mathical Mountain of the Moon, in the heart of the

unexplored region of the Great Victoria Desert of Western

The message was tantalisingly brief and nicked it up five times. over a period of two weeks, slways just had not recently preccode, and it seamed nervous tension, for

TOT since the famous "Meen Posl" by NOT since the famous "Meon Posl" by marhable story as the present one, by the well-

We are only cortain that this story will be re-discussed time and again. In a way it is a little classic and stands in a place by itself,

so studiy, could not be true, either now or in

Do not, by own means, fail to read this outstanding story.

TACK WILLIAMPON

sions were frequent.

"To Winfield Fowler, phyrician, Perth, unknown new world. where alien terrors reign, that lies in a crater in the Mountain of the Moon. I immankind, Bring arma and my reuipment --

the Röstorn tubes and colls, and the spectrometer Ascend ladder at west pinnade. Find my friend Melvar, maides of the crystal city, when I left havond the Silver Lake. Come, for the sole of elvilization, and may whoever hears this forward it

My uncle was inclined to suspect a hoax. But after the message had come over twice I received had heard it and more formarding it to me. We in Adelaide do the same. The lines intersected in the Great Victoria Desert, at a point very near that at which Wellington located the Mountain of the Moon, when he sighted it and named it as

Knowing Assten, as I did, to be intensely homen was impossible for me to take the measure as a practical loke, as my uncle, deriding the possibility new world," insisted it was It was equally impossible for one of my impetuous and adventurous disnosition to devote himself to any prosaic business

away. Then I would

I got together the competent he happened cine kit, a heavy rifle olitit sizeals. But the regularly, and after the fifth no more were heard. Having writed another insteame week, I hade ny writed in a factor of the strain. I left the railway at Kanewna, and booght three potents. I rode one and packed provisions, equipment, and water battles on the other two. Nothing need he said of the parial of the journey, Three weeks later I came in sight of the momentum.

Wellington hid christed it as he did because of an apparent ministry to the iterating diffrimmed ensater for the assorie and the application by from the same to the largest rim. The rook was applied with the largest rim. The largest rim is follows. I have that it must be Auster's "ensution of the largest rim to associated applied". When we have the largest rim to a second,

As the new such lack of the colling see of such, day puryle shows rese about the harrier, and it was atrack with deep foreboilings of the svil myrtacy that gay beyond it. The spiel of the deset changed to silver gray, and the gray fadel willing, solid: the deep purple sunnils usery to the paint, displations of blood spon the simulant. Still J Het, or furnised, a strange spirit of terror that larked behind the more than the spite.

Quickly 1 made camp. Junt two of the packas were left, and they were pair catched. It have paced over the hardships of my trip). I holdbed them on a listic pairs of grans and brank that graw where and formed bunk to start a high fire. I has urpper, which but a ensary one of water that, oppressed by the vast mysterions packs that locond partmentsorily in the cart, should go on the startly high. I went is the first and sought my blanck. These source the first is due to the start information.

CHAPTER II

The Abyzs of the Terror-light

MIRST I heard a faint whispering sound, or rather a bias, infinitely for away, and up, I thought, over the cliffs. Then the cloth of the tent was lighted by a faint red glow thrown on it from above. I shrvered and the strange spell of the mountain and the depert fell heavier upon me. I wanted to go out and investigate; but unfamilian terror held me powerless. I gripped my automatic and waited ternely. The scatter radume shore over beighter through the cloth. The sound turned to a hissing, shrieking scream. It was deafaning, and it plunged straight down. It seemed to pause, to hover overhead. The red glare was almost blinding. Absuntly the tent was blown down by a wedden tempest of wind. For perform a minute the terror hung about me. I lay there in a strange paralysis of fear, while a hurricane of wind tore at the caswas upon me. I heard upon the tempest, above that awful whisting, a wild and laugh that rang against the eliff, werely appalling. It was utterly inhuman, not even the laugh of a madmasa. Just once it rang eat, and afterwards I imagined it had been nw fance.

Then the light and the sound weep up and a ways, which betted courses I terr may way to rem water the data. The stars never, his devices its mitrication of the stars of the sound stars in the stars. The entropy is the stars are the stars of the stars in the stars are the path are the stars are stars in the stars are the stars are the stars are stars in the stars are stars and the stars are stars and the stars are stars and the relation of up stars are stars and stars pathing, exploring impers of red scarsed to share are not the stars and the stars are stars and are not the stars and the star and scale stars. Stars are start for stars are stars and the stars are starbler of the star and the star and scale stars. The ensemtion stars are stars and the stars are start for stars and the stars are start for stars and the stars are stars and the star and the stars are stars and the stars are staraged and the stars are stars and the stars are staraged and the stars are stars and the stars are stars and are stars and the stars are stars and the stars are staraged and the stars are stars and the stars are staraged and the stars are stars are stars are stars and the stars are stars and the stars are stars are stars and the stars are st

I three more bruch as the first and croated over the fellow unconfiscation of the first and the first and the finance has a first of the looked about for the the finance has a first of the looked about for the power specific A. The looked the look for them, there is bolds and run off, but I could midde a see their holdbes and run off, but I could midde a see their holdbes and run off, but I could midde a see their holdbes and run off, but I could midde a see without it holds about a little, to look for them, without it could about a little, to look for them, without it could about a little, to look for them, without it could about a little, to look for them, without it could about a little, to look for them, without it could be a set of the look for them, without it could be a set of the look for them, without it could be a set of the look for them, the could be a set of the look for them is the set of the look for the look for them is the set of the set of the look for the look for the look for the look of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the look for the look for the look for the set of the look for the set of the look for the set of the look for the look for the look for the look for the set of the look for the set of the look for the set of the look for th

The Ladder Found

PRESENTLY I stretched the tent again, and lay down, but I did not sleep,

At down I got up and went to bob for the position I clinated one of the low domes and gased over the gray infinity of sond, but not a sign of them rewarded my look. I tried to trail them. I found where they had been hobbidd, and followed the tricks of each to a place where the hosts had eut deep in the sandy turi. Beyond there was so trace, the the Them and y turi. Beyond there was no trace, the the Them and y turi.

Then I found something stranger still—she pricht of bere human foet, half erzert by the wind that had blown while the terror had bring there. Thus marrithy langth, and the forgerints! Was there a land of matmen behind the monusian? And whus was the thing what had occur and gone in the alghin? Those wave questions I could not answer, but daylight dollad any woodcrine for.

The sun would not rise on my side of the meantain until meally neon, and the cold dark thicker of the cliff was upon me when the descer all about was a addiminating white in the lacast of the sum. Anster% cells find mentioned a ladder. I set core to find it. Just corth of the peak I cause upon it, runing straight wo like a silver ribon to the to of the diff. If was not the clamps affair of rope that is repercised. In stars, I at one should are sides that Anstein had made it at all. If was de a oddtower and the stars of the stars of the stars of the theory of the stars of the stars of the stars of the stars of the stars, reveal to have stars, which were shout white hear, riveted to have stars, which were shout white hear, riveted to have stars, which were started on the tore of the poils of the stars, which were ground. That suggests that the stand has pickid non the base of the mountain inner the failer was approxited. At a system that the start has been been been been of the stars of the mountain inner the failer was approxted.

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At last I reached the top and crawled up in the month of a marrow cargon, with the block stores walls rinking straight to the peaks on different aids, very much were, it assential more by the than burns robot. It was not yout noon. It whiled a few minutes to restly, then willced up the path with a very known cardiotity as to where it lock. It grows to deep that the sky overhead was but a dark blue widened. It walled out on a broad faton platform. And blue much shows the show that the show the widened. It walled out on a broad faton platform.

I stood on the brink of a great chasm whose bottom must have been miles, even, below sea level. The farther walls of the circular pit-they must have been forty miles away-were still black in the shadow of the morning. Clouds of rtd and purple mist hung in the infinities of space the chasm contained, and completely had the further half of the looked on another world, was a deep red shelf, a scarlet plain weird as the deserts of Mars. To what it owed its color I could not tell. In the midst of strangt crown of scintillating fire. It looked as though it were capped, not with snow, but with an shifting flame of prismatic light. And the crimson upbind aloped down-to "the Silver Lake" It was impenetrable banks of purple mist lying back of pleamed like quicksilver and light waves ran upon it; reflecting the sunlight in cold blue fire. It arented

that faint purple vapors were floating up from the surface. Set like a picture in the dark red landscape, with the black cliffs about, the argent lake was very while, and very bright.

CHAPTER III

Jown the Silver Ladder

CRA since, long these I peared into the shyra. We have a since of the since and the since protect of the Methods in the since and the since protect of the farther rinn, which still was black or align rat, here are since it the since of control the wavelength control of the since of the since of control of the since of the sin

It was well after noon believe I ate a bittet lumith and took thought of the matter of descent. I saw that a second isolder led down in a fine thos of allower unit it disappendral shows the crimoso up entered down. Descending was cusier than crimiing lual hean, but I had infinitely further to go. The soles of my shoes were cust through, and my hands account evel and Mittatwa do es the range. Sometimes, when I was too sized to go on I shang pack, while I was too listed to go on I shang pack, while I reated.

Steadily the black wills rose higher about mn. The red plateau benenth, the mountain with its crown of flaming gens, and the strange white lake beyond, came nearer and nearer,

I was still half a mile above the scarlet plain when the shadow of the western wall was flarge fast over the valley floor, and the light purple musts beyond the argent lake deepened their has to a dark and ommous purple-red.

But the Silver Lake did not darken. It seemed luminous. It glearned with a bright, metallic silvery lutter, even when the khadow had sillen upon it. Whenever I rested, I searched keemly the whole visible floor of the slyws, but nowhere was any life or motion to be teen.

With a growing apprehension, I callard that I would not have tune to each the ground holice dark. I had no donie to be ariching like, afy to the iteo of the diff Works the 'Integr that had made site iteo of the diff Works the 'Integr that had made site iteligies and yain, I clemetered horn as I could force my works of motion had become almost automatic. Hands and feet anovel regularky, relyminatily, without orders from the brain. But sometimes they formbld orders from the brain. Suff sometimes they formbld orders from the brain. Suff sometimes they formbld orders from the write, the sometimes they form the some orders for write or write.

Night fell like a black curtain rolled quickly over the too of the nit, but the half-moon of the Silver Loke still showe with its white metallic light. And strange, moving singer of red appeared in the first in the hollow of the crossent. The light that fell upon the reck was faint, but still enough to help, and till in hurried-dreaming hands and fort to follow down and find the range. And feastially I looked over my shoulder as the bank of mint.

Subtraly a long pole finger of rel-- deficient reaver ray-tay-the high cut of it. And up the range pathway it speed, a long stender persil of crimon light-- marrow, hap-tipped scatter a lange-laght ling curve. Down it plumped, and back into the matt. Presently bend its source-best strange whistling right has rolled majorized pole-that strange with the ray of the langer back of the stranger the property of the langer back of the stranger the property of the langer back of the stranger the property of the langer back of the stranger back of the property of the langer back of the stranger back of the property of the langer back of the stranger back of the langer back of the langer back of the stranger back of the langer back of the langer back of the langer back of the langer back of the stranger back of the langer back

Following paths that were smooth and arched, with incrolible apend, they swept about like a swarm of strange (notes, always with ansaing case, and always abooting back into the clowd, leaving faits purple tracks behind them. And the great ranking sounds rose and fell. Those lights were incredible entities, intelligent—and eril.

They drew, more often than anywhere data, over the cown of lights upon this hill, mind the genu atill above with a faint beautiful glow of mingfold colors. Wherever one wreap is near the monstain, a pale bins ray shot toward it from the cap of jewels. And the red highing ideal from the ray. More and more the hybrig things of erimote were drawn to be mounth in wyskeling within and cradinally within own with immuta—mail terrible. They were like insext whereing about a light.

At the while I dimbed down as fasts as I could be a set of the se

After it was gone, I hurried on for a few minutes, beeathing easier. Then another went by, so close that a hot wind laden with the purple mist of its track blow against my face.

If we gripped with dentify, muttenable terror. If we gripped with dentify, muttenable terror. If the myself down in the basie of denyeming. Then the third one came. As it a approached it is passed in its path, and drifted downly and defiberately assured me. The very elifs trendled with the rearing blast of its sound. The green light in the forward end stared at me like a terrible, eril eye.

Exactly how it happened I never knew. I sup-

pose my foot alipped, or my blocking hands failed to grasp a rang. I have a vague recollection of the nightmare semasion of failing beatlong, of the air wharding briefly about my cars, of the dark earth looming up below. I think I fell on my lock, and that my head struck a rock.

In the Red Scrub

THE sense I haves it was days, and the sum was thinking in up open. I surgical away was builded in the up open is the sense of the sense when with drived blood. My exclusated smooles had silicated during the might, and to stand upon my cast and blobstered feet was torearing. But I had in a two feet of the ground when a left and the red ming had departed and left me lying there, perhaps theilings are dood.

I knowl against the base of the metal bladder and looked about, I had filten into a bladder and looked about, I had filten into a bladder and the algight y celling phin. The plants were carceby knowlight, barring mirrow, forthered larses of road. The deficient, forz-blag payers of certoxon (r)pheld in the breners like waves on a sea of bland. The largest like a parcellar bright and group appearance manarchies into a parcellar bright and group appearance manarchies into a parcellar bright and group sportsormanarchie into a prove-white flowers that glazand the same against the deep red background.

I think that the rel vegetation had revelved from a pools of good. Undershop the generation relation and the second second second second second second grant the deraw were reigning throughout the arch, and an array meremity in fault, the order of erelations in the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm give had been watch different from the deep warm of the deep warm of the second performance of the deep warm of the deep warm of the performance of the deep warm of the deep warm of the performance of the deep warm of t

Nowhere did I see any living thing, nor did I hear any sound of life. In fact one of the strange things of the place was the complete abscore of the lower forms of life, and even of the smaller insteria. The silence hung oppressively. It grew indexnity monstance-----maddrenice.

For away to the right and to the left the walk of the pit root straight and Match to the aurrenfinity that arehed the top. To the left of mo. five or isse miles away, towered the gener-reversed light. Its summit a biase of error-changing polyhedromicis finame. Beyond it, all adarge the ensurement of the straight failt and the straight and the straight and the straight failt and the straight and the straight and the paper shift allowed fails that root is a store the safet me curves byrost. The sum was just above the safet me curve byrost. The sum was just above the safet me curve byrost.

After a time I limped slowly down the nearest of

the little valleys. As I weart my rowing eye excepts the bight gifter of haso on the ground at my jest. Searching in the red shrinks, I pixed up there first carridges for a 4.6 cattles untworks. I bidd turn in my hand and gand over the waird same kedges me, so for a worker. They were concrete proof that Asame had pasted this way, had have longing of Same dager. He must yet be considered in this atmosphere, they were where war I to find "Merony, marks of the crystal " η_{1}^{*} " and what was the to do for me?

Presently I went on. I wanted water to halls any cuts and builts. It was very thirty as well as hungy. My pool, was an inframe harden, has I did not diacard it, and I carried the heavy filter only in my hand. I was tell feeling very wesk. After a possible had the I office to it they good its a thicket of the red bars. I was still feeling very wesk. After a possible of the I office of the start of the start of the start has a start of the start of the start of the start lows and half which are form.

A Curious Sight

SUDDINLY my structure was arrented by a crystal dialating count. There was a marching relytim is it, and the classr: of weapons. It councids down the shrokbery and percent functional toolses. It muss a like the over the structure function of the structure of the over the structure function. They are structure of the over the structure function. They are structure of the over the structure function of the structure of the over the structure function. They are structure of the structure is scrittering the structure of the structure of the structure is scrittering structure of the disk of distribution. And their long structure the structure of the too tobe in arcsolution for each structure.

One, whom I took 'so be the looker, bourned out an order in a hearty, mcllow wolce. They passed straight by, within sity yorder of so. I saw that they were tall men, of magnificent plysteps, while-kinned, with Moral hair and blos eys. On they were, in the firsttion of the first-topped mountain, with they passed out of sidult in a sidult desirity, and the masse field seave.

It is needless to any that I was excited as by orthing that I had seen before. A race of fulr-haired men in an Australian volkey. What a sesanticed decovery? I approach that they had helds the menal haldse and come down it into the valley, but from whence had they come? Or was the Monstain of the Moon itself the cardie of humanity, the Gardse of Else?

"Then the crystal weights of the solitory suggested that they used some transparent crystalline robustons in lieu of metal, and that the indicate aroom spon the momation might be the day of the rese. Was it Auster's "crystal risy?" That would auggest a light critication better in some only of the metal-ind devices that are the contending features of our own will an undertwarman.

Then I thought of the footprints and the series largh. I wondered what contact Anteen had had with these people. If all they been formed or feer? I wundered if it had been the mean of the crystal cry who had paid me a with contact the cells. If so, the red torpedowhaps of the night must be directly, and they must have advanced the art of

aerial ravigation to a very high degree.

I determined, firms of all, to do some spying, and find out as much as possible about the strangerace before I revealed my presence. I was not in a very good tim for batch, and I had takon much pains for concealment when the mm passed. But I had their doubt that my grans were to far superlor to their erystal awards that I could fight them at any odds if they proved unified?.

is presently I been any text with herelaters from my models that strends of the best I could to the my my address that strends of the best I could to devely on the direction of the merutuals, keeping in the cover of the wildray is much as possible on the server of the wildray is much as a possible to my program. The low budge could leadly any definite, thereing the air with their unitanility, definite, thereing any advector definition with the airch, righted budget another definition with the airch, righted budget another definition with the the distance of the distance and the distance and budget with a present the server.

The gen-stoped mominin rate before one shall be aver that the grant holds where rows a full throuand fract to the crown of blaining crystal. And as I draw manue, I are that jubed the gens were buildings, of a mattive, function architecture. A stop of crystall Primatics from of emend-dyress, and robyered, and applicables, pound out in a mighed field of inflacement from it should regions and grant towers, its certail arely done and the circles hardisment of a burndow flashing hose.

CHAPTER IV

Melvar of Astran

Distributions omit 1 staggerei (into a titlis dat tit tar use exceed with manufally produce growths of the emission plants. Adam of the training the emission of the emission of the emission of the endealing the stateshoot for was a statistic calcure fraction, Statistical and the emission of the states of the state of the state of the state of the states of the state of the state of the state of the states of the state of the state of the state of the states of the state of the state of the state of the states of the state of the state of the state of the state states of the state of the state of the state of the state of the states of the state of the state of the state of the state of the states of the state of the state of the state of the state of the states of the state of the state of the state of the state of the states of the state o

She was chain a slight paramete, proven is color, that secured to be worren of a fine-opun real. Her hair was long and goldon, fratered behind her dendy from a single mounter reby. Her features gener fan und diciente, and the hud a surptissing prover fan the diciente, and the hud a surptissing provide the state of the second state of the planarte the dibers with the real junce of the planarte had been pointing the rollow finate for the planartract from her heauty. I was struck-and I will admit it, conquered-by her face. For a little time of a stord wery erect, looking at me with an odd expression, and then she spoler, emendating the words very carefully. In a rich polden voice.

The language was English!

Site said, "Are you-an American?"

"At your service completely," I told her, "Winfield Fowker, of White Deer, Texas, and New York City, not to mention other points. But I own to some surprise at finding a knowledge of the idiom in a denine of so remote a locality."

"I can understand," she amiled. "But I think you could talk-more simply. So you are Winfield, who came with Austra across the great-occan from America.""

"You guessed it," I still, trying to keep my growing excitement in hand, while I marveled at her beauty. "Is mind reading common in these parts?"

"Dottor Austen-the American-told me about you, his friend. And he gave me two books. Tennyson's poems, and-"The Pathänder,"

"So you have seen Austen?" I cried in real astonishment. "Are you Melvar? Are you the 'maiden of the crystal city?"

"I am Melvar," she told me. "And Austen stopped in Astran one aster-that is thirty-six days."

"Where is he now?" I eagurly demanded.

"He was a strange man," the golden vector ergisted. "He did not here the Krimin, as do the man of Astran. He walked off toward the past in the menti that kode around-around the Saber Lake, he called in He had here watching the Krimin as they cance at algohit, and doing attacm; things with some stuff he took from--the Silver Lake. While applie abs heatmade, it is how for a word "--The Paright Cones," also concluded. "He took that to examine it."

"What are the Krimlu?" I exclaimed. "Whator who-are the Purple Ones? What is the Silver Lake?"

"You are a man of many questions," she laughed, For a moment she heatated, with her blue eyes vesting on my face.

"The Krain, so say the dd men of Attant, we the appirts of the data who comes book from the land keyond the Shiver Lake to watch the living, and to earry of the store 1 shiver and the living and to a stary of the store 1 shiver and the energy of the store 1 shiper and the store of the data shiper and the store of the store of the upon him the carse of the stir, and drove him away. And haded it is will thin he way ready to go and have aftered him to the Parple Sam had he been in the city another might"

Suddenly also must have become conscious of the intensity of my unthinking gaze, for she abruptly dropped her eves, and flushed a little.

"Go on," I urged her. "What about the Purple Ones and the Silver Lake? Your account is certainly entertaining, if somewhat more mystifying than illuminating. At this rate you will have me a raving manize in an hour, but the process is not unpleasant. Proceed."

Fowler Grows Bold

SHE looked up at ms, mmind, looked off to the side, then its the eyes return to mine with curloss speculation in them. "What is the Silver Lake," she were m, "you have a well as I, though Austen invide a desh that is the trells. And the Parple Ones—you will see them soon enough? They are strange bings who cours, a does knows that they are "The Avergene of the Parple San." but dd way come down the indder as Austen dd?"

"Most of the way in the same manner," I told her, "I finished the descent rather faster than he did, I imagine,"

The three really," also taked, "to broad world beprod, with fields and forests that are green, and seas that are of clear blue water, and a on that is not purple, but while? Such Austen toil one, but the clears any that the laider is the path to the Paragle Sax, and heyroad is nothing. It is it true that there is a great nation of the mess of year race, a nation of mess who know the art of first that Austen aboved up, and greater aris, who can travel in slips over water and through the all fills for Kiming?"

"Yes," I said, "the world is that, and more, but, in all of it, I have never seen a girl so beautiful as you."

It is not my habit to make such speeches to ladies, but I was folding a hit light-headed on that morning, as a reaction from my terrible advectors, and I was rather introduced by her charm.

She smiled, evidently not displeased, and looked away again, apparently composing her expression with difficulty. There was a suspicious twinkle in her dark blue tyes.

"Tell me why you have come into this land," she asked abruptly.

"Austen sent for me to come to bis aid." I re-

"You and Austen are not like the men of Astran," she massed. "Not one of them ever went out to face the Keimiu or even the Purple One, of his own free will. You must be brize."

"Rather, ignorant," I said. "Since I have seen the "Krimha," as you call the flying lights, I am about ready to give up my courage of any kind."

Then, because my estimated condition had rebbed nee of my collmary sense of repromitibility. I did patch a thing as I had never dared before. The given as a standing decise before me, mitchiesaly heartition, ministry derivation. Here cyces were bright, and this multiple glutesade is her policien hair. And ments and the standing for the standard to remy brief, a total that I did not try very leard to remy brief, a totalet quick may be did not the the my brief, a totalet quick may also and the wait bending over me, with team is her eyea. "Oh," she cried. "I didn't know. Your bendl It is bleeding. And your hands and feet! I didn't natice!"

So I was compelled to lie three while the beautiful stranger very tenderly dressed and bandaged the ext on my head. In trath, I doubt thint I would have been able to get up immediately. The tooch of her cool ingers was very light and deft. Once her golden hab brouched agabate my check. Her her completily, though I had never taken much stock in loves at first sight.

Presently size had finitisful. Then also isad, "When Austan gave me the books he int a letter for any man of the outside who might happen to come to Artena. You must come with me to the city, to get it, and to rest with you rain walk without imping so pointially. Then, if you will, you can go to around the northern pass. Perhaps you can field Auton. But the Keinto are mighty. No man of hans ever gone into that accurated region has ever han ever gone into that accurated region has ever here acen argain."

CHAPTER V

Astran, the Crystal City

THE sun drooped benesth the rim, and the purple dusk began to thicken and to creen over the valley floor. I took up my precisus equipment, and Melvor and I walked off through the red brush in the direction of the mountain. The yaat strange buildings of the city of genus were still glowing with soft color, and the cold, bright suryand the solling eminences. Presently we cause to a well-worn path through the crimson scrub, but I saw nothing to indicate that anyone had thought of paying or improving it. But the Astronians did not seem to have moth entroy for any kind of oubfic work. Their material civilization appeared to be on a rather low scale. In fact they supplied their ant fruit of the red husbes. As I had guessed from the sirl's remarks, they did not even have the use of fire. Indeed the great physical and mental development of the race and the solendid city in which it lived was strangely contrasted with their absolute lack of scientific knowledge.

Our pace was hastened by thoughts of the terrores that night would bring, and perhaps because of them, we walked nearce one nother, and persently we were harrying along, hand in hand. About us the purple night deepneed and, beyond the argent brilliance of the Silver Sea, the strange evil of the night eachered studie for the atrack.

At last we came to the narrow path that wound up the side of the mountain to the spitndle palaces that erowned it. We harried; came to a great arched gate in the cascaid wall, and entered. The large, incredibly magnificent buildings were sautered irregularly about the summit, with broad massas between them. Here and there were paved cornts of the alivery metal, which must have been as dominum brown, but the open promot was for the most payer grown up is naist thickets of the red breading of agent. There and there were great bacage of glenning erysall, where wondershi collices that thin, with the breading theory wonder the difficution of the breading theory wonder the difficution of the the breading theory wonder difficution of the the breading theory and the difficution of the the breading the second them. Which the significant event for us as budbut to synthesis sufficient even for us as budto one of the source of the second the second them. Which of the fails measures.

Towering above all, on the very peak of the mean strains, was a greater budy converted at the done converting was a greater budy converting the strain to prove a large entrains that resembled and the strain of the strain of the strain were patient short, and a strain of the strain strains and the strain of the strain of the path theory where the possible hown indient short, where the possible hown indient short, where the possible hown indient short and the strain of the strainser of the strains strain of the strainser of the strains strains and the straintern of the strains strains. The strainset heat of views is the strain of the straintern of views in the strain of the strainbeam of views strains. The strain of the straintern of views strains, where the strain of the straintern of views strains. The strain of the strain-

"With that," and Micras, "our people fight off the Krinnk as right. But the Krinnia are so many that sometimes they are able to hand and take our people. If only we had some of the bears. I But there is no man in all Astras who knows how the light is mude, carryining area that the black light shifters out to deture when rock of a certain Mad is produced but the Ag text which off sometime in the product for the Ag text which off sometime in the reasons forcable. Indeed, his carried is a see of the reasons forcable, had for driving him areas."

Standing about the ill-keyt strets were a few of the people of the crystal few, All wore of of the people of the crystal few, All wore of advanced, and fair haired. All wore generates the people of the strets and permission generates the people of the strets and the strets of the strets people of the strets and the strets of the strets of the strets and the strets of the strets of the the strets and strets and the strets of the strets of the strets and strets of the strets of the strets and the strets of the strets of the strets of the strets and strets of the strets of the strets of the strets are stretgied in a stret of the star strets the strets and the strets of the strets of the strets of the strets and the strets of the strets of the star strets of the strets of the strets of the star strets of the star of the strets of the strets of the strets of the star strets of the strets of the strets of the star strets of the star strets of the strets of the strets of the star strets of the star strets of the strets of the strets of the star strets of the star strets of the strets of the strets of the star strets of the star strets of the strets of the strets of the star strets of the star strets of the strets of the star strets of the strets of the strets of the star strets of the stret

Safe!

MELVAR was saying something in a conclistory tone, and I was avinging my rifle into position for use, when there was a sudden shout from the gate of the city, and the clashing of erpstal vacgors. The interruption was not welcome to not. The cover strend early to the new strpossibly the same hash and passed not in the morement of the same hash and passed not in the morement of the same hash and passed not in the moretop of the same hash and passed not in the morement of the same hash and passed not in the morehand for and same hash and the same hash and body of a same hash and the same hash and the same hash and the same hash and the same hash of the same hash and the same hash

As I stood staring at the thing in horror, there was hughter and cheering in the crowd, and a little child ran up to stab at the thing with a miniture diamond sword. Melvar toothed my arm.

*Come," she whispered. "Quickly: The people do not like your coming They did not like the things Autor sold of the world outside, for the private teach that there is no such world, It is well that the huntres came when they did with the Perple One. And let us hope that the privates of the Purple Son do not hear of you?"

As the spoke she led me rapidly away through a tangle of the red brash, and through a colomnade of polished angohine. Then the quickly led the way down a desetted allay, across another patch of the red shrubbery, and down a short flight of steps into a chemice that was dark.

"With term," the commanded. "I must leave you. To thick the 1 points has had updown me, and 1 T were too long absent he might grow targetions. He was the creary of my father, and some day up tracker will shy him. But sometimes I am straid of the ways he closed at an e. However there is no danger nose. If the priority hear, I will number go you out of Arona. I think hay in other way by the anti-strain the priority has a straid by gray out of Arona. I think hay in other way have you exist which and hear in this me if"

She can up the steps, and left me standing in the discincent, in a state of succonformable indexion. It is do not like the turn that affairs and taken. It is over pissant to be also in the dark in a stange and dargerour place. I would have much preferred to take up chances out on the open pisia, which mothing bet the moving lights to fear, terrifle as they were, than there is this strenge edy, full of man just as effectively and completely in the methus dash that as effectively and completely in the methses dash that ever research the right.

For a time I stood variing transfy, with my rink in my hand, but I was very timed and weak. Presenty I got out my flashinght and examined the larger ork of the momentum. There was nothing in this way of familtare corect a sort of spidded greanity want to itege there, though I had no intention of doing no.

Austen's Letter

THE next I knew, someone was shaking my arm, and shouting strange words in my ear. I opened my eyes. Standing before me was a young man. In one hand he held a crystal globe filled with a glowing, phosphorescent stuff, faintly lighting the little apartment. I sat up slowly, for my limbs were stiff. The gun was still in my hand, Without saying anything more, the young fellow pointed to a tray that he had set by me on the shelf. It conmined a crystal pitcher of aromatic liquid, and a dash of the yellow fruit. I guiped down some of the drink, and ate a few of the fruits, feeling refreshed almost immediately. Then the how-he was not more than sixteen years of any-thrust into my hand an envelope addressed in the familiar handwriting of Auston. He handed me the light and walked up the stone stairs.

With feeling that well may be imagined, I tore open the envelope and read, in the faint light of the glowing bulb, the words of my old friend.

"Astran, in the Mountain of the Moon, June 16, 1927.

"To whomsoever of my own race this may be delivered;

"Since yos mats in far have invoked the mysterises dangers of this strange world, it is orcalise for me to dwell upon them. I write this Intrif missive for the information of anyone who shall happen to find the way in here in the fatters, and in order that he riddle of any own disappearance may conce time the riddle of any own disappearance may conce time the riddle of any own disappearance may conce time the riddle of any own disappearance may conce time explore the region beyond this lake—I call it the Slover Lake—exp to bose my File in the attempt.

"My many in Horses Assets, I came to the Gover Mottoh Bourt to available the scalphened columns reparted by Hamilton, for to the west of the scale of a great measurement of the scale of the scale of a great measurement of the scale of the scale of a great measurement of the scale of the scale transfer of the scale of the scale of the scale of the transfer of the scale of the scale of the scale of the transfer of the scale of the scale of the scale of the transfer of the scale of the transfer of the scale of the scale of the scale of the scale scale of the sc

"It happened that I remembered Wellingtan's account of the Mountain of the Mount, whose workness cliff was followed for a few miles by his roots of 1897. That append to be the baset themes for the great cruster described on the columns. It was but assured for me to defide to investigate it. There is no use for me to dwell upon my hardfulge, but the bot of my water was drauk when I shand the halder, which was located just as the incerptions indicated.

"I reached the red plain without accident, and found the fruit of the strange vagetation a palatable and nourishing food. So far I have escaped the red lights that baunt the night, and it is their mystery that I am determined to solve. I want down to the metallic later, and investigated it. I confess moved on the make to account either for the values or for the incerdible origin of the field. With proper precaution it can be studied without great difficulty. but since I sus almost entirely without apparatus,

"I had been in the croter a week when I decided to approach the city of invels on the mountain. I have been in Astran over a month, but on account of the savagery and ignorance of the people, and the on very friendly relations with them-with the orocation of the girl. Melvar, who seems far above the others of her mce, and who has been my friend from the first. I have been able to fears but little from them, although I have nemired a fair knowle eare of the Innerrore. My instructor in it, the benetiful Malvar, is showing a letter desire to learn English, of which she is gaining a command with remerkable anent, and is developerer, as well, an insatiable surjosity shout the outer world

"The sentiment against me has been ever running higher, and temorrow I shall knys the crystal city, and endeavor to round the sea in the north and to much the mist-weiled land beyond. My cally report in leaving is that I shall see Melyar no more. I wish there were some way to secure her the advantages of a civilized education

"These may be my last words to the world, if, undeed, they ever come into the bands of a civilized man. And I know that account or later the crater will be discovered and entered. My chief purpose in writing this, aside from the satisfaction of leaving an account of my own dologs is to state my firm belief. I may say, my certain knowledge, that the strange things that may be observed here, supernatural or incredible as they may appear, result from perfectly natural forces in the control of a civilized never that may not be much above our own advancements.

Horace Austen"

CHAPTER VI Forder Recovery

READ it in the faint glow of the photohorescent globe, and read it smain. So Austen was keyond the crescent, if he had been able to carry out his plan. The date of the letter was ten months bork. Then the radio measure had probably come from the other side. And why had it for himself alone. Had he feared some general dangers to the human race? I thought of his phrase, "for the take of mankind," and shuddered at a picture of the red lights sweeping like destroying angels over a great city like New York decimating the terrorized population.

I tried to think what was best for me to do, if ever 1 got out of Astran alive. I supposed that Austen had been able to round the Silver Lake in the north. I should be able to follow him. Clearly there was nothing for me to do but to find cut as much about this strange world as possible, and to get the conjugate to him at more at I could do

I staved in the cellar-like home for a week. Twice each day the young chan came to bring food and drink. He know but a few words of English, and to try teaching me the language of Astran. But my progress was slow, and I never learned more than a fare score words. The language segmed much more complex, twen, than English, with hew/Mexing rules of inflortion. But I developed maite a liting for the boy. He had a simple, straight forward minore and a mod series of humor. His name was Naro. He was the brother of Melvar, and two years younger. Their father, st seemed, had been corried off stytral years before, when the flying lights made a great rold and the mather had alon after faller And the boy himself here the score of wounds he had suffered a few months before in a terrife battle with one of the Purple Ones, as those moneters were called which so mystified me then, and with which I had such terrible concritences later

On the second day Melyar came. She bromohr a over flack of aromatic oil that she poured over my wounds. It must have been remarkably beallage for in a few days I found myself entirely recovered Before she left abe told me that the priests had heard of my arrival and that it was whispered among the people that I was a supernatural being, sent as an omen of an attack by the Krimle. She told me, too, that there was talk that a specific would soon be offered at the altar of the Purple Sun, to appears the angry Spirits of the dead. Sweet and innormt shild she seemed to have no fear that sht, who had brought me into the city, would be the sucrifice, and I did nothing to let her know my misgivings, although I did propose that we leave the city tourther as soon as possible. How I bered to get her leave the anartment

The Shrine of the Purple Sun

DURING the following days 1 questioned Naro constantly as to the dorngs of his sister, and of the Astroniana, but I was able to elicit no very satishad been seen for several days, and that the headmen of the notion were berinning to expect a rold in force. Also I persuadod him to keep a very close watch on the movements of Melvar, and to come to me at ence if Jorak made any attempt to get her into his nower, or if the ascrificial coremony was berron with the victim unselected.

During the interminable periods when I was alone. I was driven almost income by the monotony and the anxiety of my existence. But I had my scientific enumment, and I bad the boy to bring me a few assorted fragments of the crystal building stone, which I tested and found to be real gens, of several varieties. Many of the gents were simple enough in chemical formula, and composed of the most common elements, so the synthesis of them by scientific means is not unreasonable.

For example, it is a well-known fact that diamond is just a crystal form of earbon, which element occurs in three allotropic forms. Those three forms are diamond, graphite, which also crystallizes, and amorphous carbon, of which charcoal is a form, Since carbon occurs in the air in carbon dioxide, it is not impossible that latterday science would be able to manufacture diamonds from the air. Sapphires are aluminum coulde, or alumina, colored with a little cobalt, and rubits are composed of the same oxide, with a trace of chromian, to which the color is due. A clawhed would supply an inexhaustible amount of the elements needed for the synthesis of these gens, and I think the people of old Astran had been able to accompliah it. I examined the little glow-lamp, too, and found it to be simply a crystal bottle filled with the moist crushed leaves of the red plants, which formed a culture of some kind of luminous bacteria.

On the seventh night, when the pale ray of daylight hint filtered down into my hinding place was dimsed, Naro burri into the chamber, passing, and wild-red with trenter. His arystal avored was failing, drop by drop, from a dam terta down his arm. He themse thin on yahad a tattered senge of page, evidently the flytad of a book. On it, in an list that Troub at first to be blood, although its follow, and the sense of the red plants, the followthemeters.

Winfeld, There is no logo. The priests will offer a pitt to the Purple San., I am the victim, Already I am is the hands of Jorak. I am wirry, for I lowed you. It may be that I can give this to Nare, who could take it to you. The Krimha are coming tonight. Already their lights fisher about the miss. In the meening my brother will take you to the right, and you may casay. If any it had been one night later we might have all been away together. Farwedl:

Melvar,"

No time was to be lost. I had been anticipating something of the kind. The gauss were deamed and loaded. My pack was soon relady. Nave took a part of my equipment. I followed the boy up the stair, with the plenas, "For I loved you," ringing in my heart.

We reached the top and walled out into the red brush. Beasash the purple starlight the was instastic columned halls of Astran were gleaming faintly, and I caught a brief blue ficker from the great machine on the nuby dome.

Suddruly, with a sharp thrill of terror that mode me eatch my breach. I heard the awful distant whining sigh the terven, and the air sceneed affect with its deep intensity. Above the emeraid well I glingsed the green-tipped meedle of erimton that made the tourd. It was averging through the sky meterovenift, while the paie biese beam stabled out it it indiffectually. It proceed in an insistent, but others came, and score the sky was lighted with the work of endineer, and the very monstain top vibrated with the whiteling roars. The things were a recound and around in a rand conflusion of during diames. They were like moths about a confle.

We passed an amber palace wall and enum anddesly upon a grain, math-Bored court, Marching zeros it were a hall score of the Astranaim menaarm, their accontenents g featuring weldly in the light of the strange things above. Tage are us at soce, and churged inpon us with a shota. I dropped to my kness. Once my rife spake, and I rejected at its showy threat against my shoulder, and the sarde of the soldiers will upon his face.

Melvar Saved

NARG gripped my thoulder and pointed upword. Conce of the red thinks was planning down, like interpretation of the state of the state of the state interpretation of the state of the state of the state and the state of the state of the state of the state and the state of the state of the state of the state and the state of the state of the state of the state the state of the sta

Swrifty, Nuro ted me out, kacying is the adaptors of the building, on in the cover of the thickers. Once a man sprang sociativity are so from behind a supplire pilling, dismost oword draws. My printel copioded in his force and bleve his head half off. Mare possessed himself of the dead mark weapons, and we want breathleady on. Three times, in other parts of cound for, we must be cal hunge drop to the offending of the set of the set of the set of the offending set of the set of the set of the set of the while sets the blase twy played back and forth upon them.

At low we passed between was ruley column and stood beneatin the huge rule doesno. Before set by a great space, fairly it with a says light the set of the store of the set of the other set of the se

We hurried allently across the smooth metal floor,

corr focusteps drowned in the ruthing rounds of the hybrig things shows. We ran around the great perpise sun-sphere of crystal, and came alrequity upon a dramatically torville score, bareating the sphere was an adare of glowing real, with the priority and oblieve all grouped about it. By the third, instaling and allow, citid in a kiny great role, were the unit have hidre main, in this holds arguest real score or the hard field of a liquid that gleaned blow median wirest.

As we came around the sphere haves holding up the vessel and repecting a terrange cheet in a sourchnorus memotene. At sight of we he dropped time abarrood silence, with an ugly score of hete and fear distorting has harsh features. For a moment he stood as if paralysed, then he rubbed toward the alignet girls as though to enspty the contents of the erroral picture upon here.

I first on the instant, and had the tack to shotter the vessel, splashing the shinks slivery fluid all over his person. The effect of it was instantaneous and terrible. His perple robe was exten wway and set on first by the stuff, its first was slyed a deep purple, and partially constant. He tottered and full to the floor in a writhing, fisming heap.

In the continuou, and the dused advence that full upon the war assemblage at high of this borrible thing Malvar, around from Ker resignation of depair by the report of the pitch, genage to her fort in incontinuous aurprise. For a moment the loaked wooderingly at us. These her turned and should a few atrange and impressive words at the prioratler white arms sweep up in a cardina genture.

Then she turned and sped toward us. We stated training back two yee had cones. The dramatic fail of jorch, and the evident terror that MeVav's comparison and through vords, shatterer they laid here, has implied, strevel to hold the Astern pardition of the stress of the stress part of the datasets of the columns. But these they anrated after us on masse. I drogged to up kness ut the columns and heppe firing steady with the either. They Ed, ponetime two or three is it is high.

Then, courside, there was a sudden loader thride ingrear. A floot of relight powerd through the columns, and there was a twirdle even house him the start room. One of the flow globals had handed upon the root. The charge global with the twirt stores. One of the flow global had handed upon the root. The charge global with the store of the store global with the store of of the arcrearts building. We kept these Up but the througe of the slight, we are not and down the short and the slight with the slight of the slight of the traves of the slight, we reso that global the Diring the traves of the slight, we reso at and down the short and the slight of the slight power lists.

CHAPTER VII

The Silver Lake

T the coming of day we were walking over a pently colling scatlet plain, scattered with gigantic solitary boulders, that sloved gradually down to the Sthey Lake. The lake by flat and around white, clad in all the ominous mystery of that strange world, calling, beckming us onchallenging us to learn the secret of the fartherest bank of purple fog, with a grim warning of the doors that might await us. The red fem lake sprays waved sently in the breeze, and the vivid, timy white flowers seemed to sparkle with a million glancing rays, like frost in the sunabine; but the deen intensity of the red color lent a veried and unticatant superation of blood. Revend the Silver Lake, low hills rose, faint and mysterious in the purple haze.

Melvar walked beside me when the way was emoth enough; abe was talking vraciensly. She had a keen sense of humor and a lively wit. She exerced to have an almost childishly perfect faith in any power and that of my guns—bat I was far from fealing confident.

At survive we stepped by a little pool of cherwater, densk, and mode a much of the abundant yellow fruit. Astron, with the acimilitating first landied again in all jewoid towers by the felicity wan, by air behind and alove us. When we had finded eating, Melver stood localing for a locamentation at its glorious aganting light. She murumed a few words beceath her breach, in the Astronian tongos, and turned again toward the Sliver Lake.

In two hears we came to the shore of the greet has. The ode some preve up to the brials of a half half a factor iter high. Risky we have a bread, here with realing of the break of the some prevent of the brians of entry of the break of the some prera few minority we should at the odge of the cill, and the fragge of entry of the brayeria typic is proported at the minity cred hill hayeria typic is protent built approximation of the some of the sole of the there is the some prevention of the sole of th

"It is along the shore of the Silver Lake," Melvar asld, "that the Purple Ones are most frequently found."

"The Purple Ones, again 1º I criod. "What are they-decorated rathesnakes?" Then, with a tideening semantion of trever, I remembered the herrible, half-haman purple corpos that I had seen the softens bringing into Astron. "Are the Purple Ones men?"

"In form, they are men and women" McFerr sold, "but they dwell alone in the thickets like bears. All of them are old and hiddens. They are swrapp, and they have the strength each of many men. Our soldiers must always hunt them, and fight then to the death. A single may, even thoseh sented, could do nothing against one of them, for they are terribly strong, and they fight like demons. Their country is not known, and no children of their kind are ever found. The pricets say that they are of a race of duards that dwell beneath the Silver Lake."

Here was another of the boffiner invitories of this strange world. In fact, I was coming upon unpleasant mysteries much faster than I could comfortably stomach them. Lone, purple, savage animals, in the form of smariated humans, who prowled about the country like wolves, and like wolves were hunted down by the Astranians! Again I shuddered at the memory of the limp purple cornse the soldiers had carried, and with a strange chill of the heart. I remembered the human footprints that had been left where my ponies were that I had heard, or thought I heard, above the whistline roar.

My thoughts ended with the construction of a mad hypothesis of a race of purple folk who lived make slave raids on the whites in torpedo-shaped airships, and who made a practise of releasing, on turning out, the superannuated ones of their kind in fact, quite plausible at the time, but I was far from the hideous truth. I could see no reason, d other might not he shie to build shins as marvelous as the red torpedoes. But my reason rebelled at the acceptance of the ideas of demonic and supernatural horrors my emotional self trued to force

The Touch of the Metal

PRESENTLY I roused myself and led the way down the white waves. My companious held back nervously and warned me not to touch if, or I would die as Jorak had done. But I succeeded In filling a test tube with the stuff, It was not transcury, or molten silver. I carried it hack up to the bluff and set about examining it, while Naro stood guard, and Melvar watched me. She asked innumerin hand, but on such subjects as the appearance of a cat, and Flith Avenue styles of ladies' garments. Upon which (the latter subject), however, I was lamentably ignorant. And so often did I pause, to answer her questions, to hugh at the paive quaintness of her phrases, or to let my eyes rest on her charming face, that the attempted analysis of the metal did not progress with any remarkable cel-

The aliver liquid was very mobile and very light, having a specific gravity of only 25, or not even four times that of liquid hydrogen, which is .07. It was extremely corrosive. Tiny bits of wood or with the liberation, apparently, of carbon dioxide and water vapor, and a dense purple gas that I could not identify. That suggested, of course, that the stuff contained oxygen, but as to how much, or in what combination, I had no iden. A drop of it on a larger piece of paper set it afre. I found, too, that when I introduced into it a copper and a silver coin, electrically connected, that the stuff was rapidly decomposed into the parple vapor, with the generation of a powerful current. But the metal seemed not affected at all. That was another nuzaling result. My experiments, of course, were comparatively crude, and when I had gone as far as I could. I really knew little more about the silver

Deeplte Melvar's warning, and my own precautions, I splashed a drop of it on my arm. She cried was sociading like a thin film over the skip. There was no pain, but the muscles of the arm were solzed with sudden and uncontrollable convulsions. Melvar tried to wash the stain off with water from my cantern. In an hour the color hat faded, though the timb was still sore and painful.

By that time, the surple disc of the sun was sinking low, and we took thought of how to spend the night, Naro climbed up on the plain to gather a few of the fruits for our supper, and we found a little cave in the bluff that seemed a good place of

The leaves burned forcely, grackling as if they contained oil. The fire produced a great volume of serid black smoke. Combustion was greatly acpressure here, many thousand fast below sea level. Melvar and Naro were intensely interested in the performance, although they had seen Austen light a fire while he was in the city.

Melvar slept in the cavern, and Naro and I took turns at standing guard at the entrance. The dartine pentils of crimson were abroad again, but they passed far overhead, and we heard the sounds of their passage only as yast and distant sight. In the morning we rose carly, and clambered back up the cliffs. I was in rather a puzzling situation. Clearly my duty was to get Austen's equipment to him as quickly as possible, but I liked neither to desert Melvar and her brother, nor to let them accommany me into the unknown perils of the region beyond. But the latter course seemed the best, and they were ready enough to so with me anywhere

The Land of Madness

HAVING retraced our course of the day before for perhaps a mile, in order to get upon the upland, we set out for the north. The sun was just rising above the black rim when Naro shouted and Lake. At first I looked in vain; then I caucht a faint flicker of amber light, pulsing up through the

Abruptly a vast millow rolden beam of light sprang from behind the distant searlet hills and special up toward the senith in a deep yellow flood. It is comed to whents, to there with incredibly ranged flattantions. Suddenly, lefty t with-damping forming the senith of the senith of the senith of the senith description of the senith of the senith of the senither dimended and diod. I could see nething, here was another maintenance of the main senith between species by other maintenance of the maintone power byquid the size. The beam had come. So for as withinly meaning, its properties

Beyond the Shver Lake, low elffs rese above a brood surdy boach, insirity verified by the purple mint. The rol hills were faince still showe threa, and the indicate put output have that hung over the hildden place beyond, stood out discnnetive using gaped energy about, stoog black wall that there is has jugged energy indicated and the state of the store of the store of the ray had beyon-and died. Or had it morely field, and was now, invisible ... qualing suff?

All seemed as it had been before, but from the attitude of my companions I knew there was more to come. They were graing up into the sam-bright wold show and waiting expectantly.

Then 1 aws, far, far døree, grøveling grødning brighter agginst her alge, an it i were being prejected there by a great magie hattern belind die blin, an ungight her of ällere has. Slowly is grev brighter ond no outlines sharper until it lookeel lite a vertical kar o diviere mela in in kesty--insteactionably longe. The length of the bar must have been milter, in distance, many Bundherk of greads. It litere was the display, indeed, of allen seinere and source!

Presently I recovered from mg first woodes, not because contocious that the blue eyes of Mchur were upon me quite as much as on the saturabiling thing in the sky. "Mchur, kave you seen it between" I noted. "Is it real-maximal" is it made by maxifi found to my surgifier that my violet was odd and a forward and the saturability of the saturability sector at the saturability of the saturability of the servers strain. I waited signify for the reasonage that the could not strice.

"It comes for the set of the set

I holded up again and sow that a finite collect mitt was gathering about the bar. In gree brighter, contented, scened drawn into awhing rings by a seried or magnetic stratestics. And the urbinous mult they neve whiching multy. These consensions shapes prove brighter, philare, smill they were fractumit they neve whiching multy. These consensions shapes prove brighter, philare, smill they were wrist, that the red was about the centre of the silve have and that the bands of color above and below run repairity to the obtar cell of the appetrum, with rings of woldt at the bottom and at the top. During all this time 2 heard no sound. It was as at # as death.

Soil the oder-rings spon and changed, proving, ever brighter and sharper edged. The rob band grew larger about the centre, until its diameter was the length of the cylinder. It gloamed with a justic stantist light. Below and shore were spinning, binning circles of carage, yrillow, green, and bins, much thanner than the one next nearer the center, and of smaller diameter. And the vjoket rings had dynamic to great globes of violet fare, shining with testing iterative.

Torion: a Molver but and, there had here more to see. The halo was no wattery strange, so we to see. The halo was no wattery strange, no we to see the strange of the strange was not strange of the strange of the strange was not allow will notifie over me, while comside and the strange over me, while over a strange of the strange over me, while over the strange of the strange over me, while over a strange over the strange over the strange of a strange over the strange over the strange and the strange over the strange over the strange over a strange over the strange ov

Then my efforts weakened. I could field out no longer. The alies will had you. Reason could feling and love flowed away and left me a cold and errol as a rock in a stormy, whury oncert-a savage, inhuman animal. Gure had left me. My room all low her throns. I langing A wild, uncerthy sound it was, like that I had heard as I hy beneath the tent beyond the barrie.

I whitled around faccoly, but a firm arresting hand was hild on my shoulder. From site off, deep blue eyes looked into mmo-eyes that were cool and same and brave. They shone through the red carthing of insusity in my brain. They broke the spell of feat.

Suddetly I was very wask, and teenking and sick. Morary lithe arms were does about me. Her throkking haart was does to mine. And in her dark, warm blue cysts, so does to mine, were sprankly, and tendenses, and love. She was homan; due was real. I have which her love voold shall and from these throns. I emiled at her, and avered my mind. That washered on the brich o the fareful instally of intrac, and she had brought me tack.

I looked from her severt tace, so full of anxious concerns to the hings in the site, B wat own is second remote, unreal, and I gazed at it with weak isdefforces. Presently I aw that the whole thing was beginning to ank as though a wright were being scoundiated upon it. Suddely as immunes gelearing platelet of silver full from the lower violat globe model in the silver full from the lower violat globe model in the silver full from the lower violat globe to the silver full from the lower violat globe to the silver full from the lower violat globe to the former direction. The press things paper fail and struct the whith help with a definition rear, scaling out great concertive waves in all derections. The summing thing saide agrun, released a second huge drop, and reas. The process was repeated agrun and agrick, the interval being, by my works, whost 3 minutes, 152 seconds. All day is worst on, which the prats waves wanting up the bioffs shows the basts, and before night the level of the Silver Lake andon according the higher.

us not other basis support of adjustment of adjustment Here was the mystery of the origin of the site malangle adjustment of the site of the site of the second for it is more relational way, or to analyze some natural cause for the thing. My mind second hardly grange it. It was almost unbelievable, even as I footori upon it. My reason would as addust that each a full more could be in a relinear work.

CHAPTER VIII Stalked by the Purple Heast

S that it was note before I fift this to go p.n. The thing, as I have sud, continued to have in the sky all day, and to drop regalitry its burden of the silver liquid. But presently I because accustomed to it, and realized that it threatened us with no immediate dancer.

After a light leach of the yrillow form, and a deep drough of water from a full stream that sound almost parallel to our rente of march for a mile or two, we related to the higher ground where the terms have not so dones as in the bettern of the vality, and so to all or the outfraged. Set II was (spling mean-lift) imposed for the term what was parked pathet—and physically relative as well. I was not a much as my gared against the veried period of the other as I bouch have been.

Every lise in the singular and intenset, other of the starting and intenset, other and the starting and the singular intenset in the singular production of the singular intenset into a singular intension of the singular intense that is singular intension of the singular intense intension of the intense intense. However, intense in the linguiship works and the singular intense in the intense intense. However, intense in the intense intense. However, intense intense intense is a second the singular intense intense intense intense. However, intense intense intense intense is a second intense intense intense intense. However, only into Fagishi, II was shown used and the singular compared in the result is seen expected, a singular intense intense intense intense intense is a second of the Fagishi II was a hower in the singular compared in the Fagishi II was a hower in the singular of Alarmo, and it can be in the mer are a second.

Solidarly her sweet voice was interrupted by a low, tense try from Nino, who had faceaby gripped my arm. I turned in time to see a weird figure, gauled and stooped, with long while hair, alink aviilly and furtively from a great rock to the shelter of the red brash. Squar and beat as it was, there was no mitstking that it was human in slape, and that the shin was aurale. In the dull apathy in which I was sunken, I could not realize the danger. "I guess a rifle bullet will fix it." I used

"The Purple Ones have more power than you know," crud Melvar, "Lat us try to get on more open ground before it attacks. Then it will have to know its cover."

a rocky billside, where the rod scrub grew low and seast. As we can I brand a crashing bahind us. Once I turned quickly, and raised my rife. The strange figure darted abrurtly into view, and I first on the instant. I think I hit it, for it spun around outbly, and fail to the ground. But in a moment it yes up. and running toward as with an apility that was incredible, springing over the red brush in great beends with a motion more like that of a monstrous hopping insect than of a human human. His white hair was fiving in wild disorder, his shruthest lumbs plainly flashing purple. And a terrible sound came from it as it bounded along-not a scream of rage or of pain, but a weird uncanny laugh, that sang strangely over the red plain, and somehous made us pause in our race, and tremble with alien

A NITTON ESCADE

BUT we kreake the key fugers of four that pripped own horsts, and ran ou multi we reached a great fut rock that key at the upper edge of the shorspace, in the codge of the thickes segan. I lifted Majorar in my arms until ale could reach the topmit seramble on. Then I looked back and awe the purple man kapping arrows the clearing with incredible steefed, not two hundred words were.

Then Nava and I got up on that reds-I have over been table to errentative just how we did it. I dropped to my kness, whird the rife that I had pushed up before me, and begue to purple teld at the baset as finst as I could work the bolt. The recoils of the gas scenario diamos a statedy threst. I have it theinds at driven bock by the impacts. Can build the builds that any bock is you impact. The solution theinds at driven bock by the impacts. A conclusion is it was redsig on again, empowered by superhausant enterprise.

When my rifle was empty it was not twenty feet wary. One arm was gone. One wide of the body was fearfiely teen. The purple face was a hiddown sangled blag. It did not bleed, but the wounds ware covered with a purple viscous alime. One of the cyes was gone, and the obtaine glated at as with heng situes have been dead. But it guidants the long these have been dead. But it guidants this is all caps for the two of the bodyler.

On the day before 1 had showed Melvin how to so my gam, merely by way of pool that there was nothing superstational in the working of the weapon that had shin so many of the Astrachash in the temple. Now I pauled one of the pivtols toward her. She was standing there motionless, ealinly even. There was no paule in her face, and I know that she would have the corners to use the weapon to save herealf from the terrible brute, if things came to the worst. She annied at me, even as she packed up the gun. Then, looking at the safety, the erinoed it in a buildness-like way.

As the purple monster spring upon the boulder, I comptiond my automatic into it. Great wounds were own in the dark fields, and half the face was shot away, but the thing seemed instance to death by ordnary nears. As the last indo was front is asond before us on the rock, a terrible margied thing, the red eye blacking with deatonic inhumanity.

Naro spring our before and, his crystal word down high, as the bases apprage at him, he cut at it with a mighty aways of the assar-ofged wesponlist the article, which would have desepisited an ordinary human, was parried by a terrific how of the daw-like hand of the thing, and the key was next spinning back against inc. We full together on the track:

Then its hards itself several (Metre. It at hyperpool in the threfore of messers, hielder I could create high to this. Bit strong up the minimum high several pool of the several pool is the substration of the several pool of the several high projection, and any several pointing in the several pool of the several pool of the several instruction of the several pool of the several metric several pool of the several pool of the instruction of the several based of the several from the binast of the least the first of the several pool of the several pool of the loop, and ford metrics pool of the several pool is not not binast of the least the the first. The instruction of the several pool of the loop, and ford metrics pool of the several pool is not not pool of the several pool of the loop.

The girl dropped the gun, soddenly trembling, and threw berself into my arms, sobbing uncontrolhibly. Her courage and conlosas had aweed as all, and I admit that I was quite as much unstrung as alse after the danger had passed. What a wondering being alse was I

The Red Ship

If was to late in the day, and we were so complexity exhaustic that we derived to go to fasther. Now was not hart, sive for a few stratcher; and I suppose how as the least excited of the shorthopy off his boulder and carried it sud the hard back across the dening to dispose of them. When its returned we found an overhanging shall on the morth side of the boulder that overhall addre some dutter from the flying highs. We gethered seems the versions, and program to represent a set of the versions, and program to represent a set.

Note called me side and showed me a current, much-yeon sider bratelet, while a simplate datign agon it. He told may in his imperfect floglith, that is had belonged to his fitter, who had hens taken by the flying lights many years before. That was a meriness development. It showed that there was some sometions between the draided Purple Ones, and the terrible, illuster. But the full significance of it did not dawn upon me until later.

By that time, I was in a measure accurate of the second s

The sed thing was upon mb before I know is: The light of my pipe rout have hence within to its In my accurated throughtlessness, that danger hold never occurred to ms. The thing case, johnging down, fooding the landscape with its lurid ermoon radiance, while the earth vilkestich to its whitting, having orcean. There was no need to which my comparison for they spong to that for the high of endping between they again the rock in the high of endping.

I put my arm about the warm, throbbing body of Melvar, and drew her close to my breast. Her own cool white hand sreeped mine as silently we writed.

The red object came down swiftly, paused just above the crimon thickes before us, then settled deitherately to carth. It was the first opportunity I had had for a dose examination of these things. The shape was philip cylindrical, spering towned the cash. It was perhaps ten fort in discrete, and a hundred long. Set on the forward end was a height green gybbe, perhaps three feet in diameter.

A change of brand about the end of the cylinder hours into fiban. As the bright environs have keeps to dail, 1 grasped suddenly the fact that the red offer was due to the red hest generated by friction with the are, which was very great at the meteor pase the titing article. It by direct, out fify yards is well, with the fact blazing and crading about the end on our right, the duating it way that the black to start at a black a great intra eye. The red offer instruction factors are also being the start of the factor instruction factor.

"Why wait?" she whitpered. "Perhaps it does not see us after all. Let us alip around the boulder."

But on the instant we mered a great overl space young out of the side of the synther. We saw that the down and willia were of a blaich white metal, and were were which. It was over goards holds. A darkness, nod I fluxdereet Quiddy five linnare file signare laxed on the years out of the overl doorway. With herest-shilling fort, I saw, by the fildering lique of the shorest guiddy five linnare fildering lique of the shorest door the here of the source languag about facet writhfold and hideoutly aced, well bould again. We ghoring exp, and shore the five naked monsters rashed down upon us.

The fire was fast blong higher and barring regify into the trans barren is at the the cylinder, and we could see the pargle basis quet piloly as the light. And they were hadrow it to impose the light of the second section of the light of ing bounds, actuated by some extractionary force that a discussion of the light of the discussion of the light of the light of the network of the light of the light of the network of the light of the light of the network of the light of the light of the light of the light of the one we had light of the metric of the light of the one we had light of the metric.

Licreted up rifle, drew a boal on the seciel of the formant out, and fired. I must have had the lack to shatter the bones, for the head through its line heads. The head through the second structure bloods near which has also the first at structure of the others run colors by it. The term of the others run colors by it. The term of the others run colors by it. The term were writing and strengthing in a summer they were writing and strengthing in the bush, testing at one nuclear with signable for only. The others store insufter with signable for only. The others store insufter with signable for only. The others store insufter with signable for only.

Saved by Fire

BY that time the crackle of the switchy speceding first had grown to a shall nore. It wereft for arrows the hrush, red humes flaring high, and draws marker rolling up into the might. The prephet beats did not appear to see it. They make no effort to avoid the filmers. Were they unvidentible to firs? Or was fire merely unknown to them as to the pecelle of Aerran?

The three ranked straight on toward us, disragarding for ranking will of thms on a doors yread to the right of thm. I large fring muldy. The fig of one word limp, but he large to with soarcely disminuted speed, hughing terribily, with the winth half right ground the winth fact, and the partych limbs moving fremidily. The famose muldo over the fallen two and hid then. In another instanthe fallen two and hid then. In another instante winth adips was hidden from our view.

Suddenly I realised that we were in quite as much danger from the first as from the mosters. Already we were shranking from the hot would that blob befirst the fluence, and half shelded by the acrief langue. For the second time we made as and ererest to the imply from the fluence, and in a moment one of the purple that buoutly and in a moment one of the purple that buowt blobs. Taken as in theorem is and its full. In another mutat the fluence has reased and its full. In another mutat the fluence moments over it is unit.

We tay on the rock for several minutes, gasping in the cooler air that fingered more its surface. For a sime the heat was stifting, but the search vegetation had homed off quickly, and seen a cool breese came up from the nowh and lifted the samble. We saw that the cyclinder still up where it had been, although the heavy body was closed. The green light will show its the forward end. About it the earth lay black and smoking, and a low innor 6 fame by blow the pull of smoke in a great ring all aloas us. Howeven us and the jihp I saw in the distbustion.

U was just beginning to woader if all the crew of the alap were done, so that we use might cater and examine it, when the great oral door an the side storage spen again, and something sprang out of it into the night. In fate somi-dynamic local door entere of mittal. In fate somi-dynamics local door nothing philoly, but there was a floating shape of greatmh mist, with a wyong form henceth. In trained my eyes to try to dustinguish its shape, while it stade unstellenges.

Abroptly a merceo, intensity bright beam of ronges light abot out of it mid finginged upon the reck. There was a dull thus from the reck, and the ray was decid in a monecut. But the granite where it had struck was not away—obletened The beam had shows terright theough the boaling carryling area, or its is signing primary electrons, the other structure and the significant structure and the carry was able about a with a soft wider maliume.

My risk was at hand, and on recovering from my surprist, I first, I samed just britow the precubin patch. Something must have been exploited by the built, for there was a vivid first of when first, and a kend, sharp report. The spot of prem was while no longer, and we are no smooth about the cylinder. At the time I had no idea what it was that I had able, I augment that it had here models of the start. I supposed that it had here models of the same start is a spot of the start of the start of the same start is a start of the start of the start of the same start of the start of the start of the start of the same start of the start of the start of the start of the same start of the same start of the same start of the start of

CHAPTER IX

The Battle in the Misz

C. O. perhaps an hour we and there on the resk. As soon in the make district, we cold as the end of the source of the source of the source (eff strict), and we wended them with a set of hypothesis increasing, declining the source of the hypothesis increasing, declining the source of the hypothesis increasing the source of the hypothesis increasing the source of the hypothesis of the source of the source of the hypothesis of the source of the source of the source of the hypothesis of the source of the source of the source of the hypothesis of the source of the source of the hypothesis of the hypothesis of the source of the source of the hypothesis of the hypothesis of the source of the source of the hypothesis of the hypothesis of the source of the source of the hypothesis of the hypothesis of the source of the source of the hypothesis of the hypothesis of the hypothesis of the source of the source of the hypothesis of thypothes

Even in the whistiling rose of its passage was rolling down upon us, Malwar spoke. How I admirs the courage and indonisible resource. How of of the girl. When i was hopelessly lost in despite, isaling all the desolation of this region and the infinite remoteness of the world of men. her case rich voice and the warm living touch of her hand brought new courage to me.

"The Krimba are coming," she cried. "There is no use to try to fight them, or to try to cutren them. But that ship must be empty. The walls are metal and stroig. Perhaps they could not open it."

What does were exceed things about the propercision that were as very structure's it steamed new could be a structure of the structure of the set the interior of the things. We gathened up use exceptions, efficient of the bound of the structure of the structure of the structure of the structure compared, without the bright precisi of give from my peckets have results too living boling in the long proceeds through the expering without efficiently and 1 reproved in brough the does. We screenable through the expering without efficiently and 1 reproved in brough the structure of the screenable through the expering without efficiently and 1 reproved in brough the structure of the

Then I set about examining the mechanism, for I had an intense curicalty about the propulsive force that enabled the vessel to attain a speed that must have reached thousands of miles per hour. In one end were rows of long cylinders of a transparent substance, evidently filled with the metallic fluid from the Selver Lake. Pipes ran from them to a complex mechanism in the year and of the ship. from which heavy conduits ran all over the inside of the metal hull. While my understanding of it all was far from complete, I was able to verify a previous idea-that the strange vessels were driven by use of the rocket principle. It access that the silver fluid was decomposed in the machine, and that the purple gas it formed, at a very high temperature, was forced out through the various tabes at a terrific velocity, propaling the ship by its rescrites. The whisting rours of the things in motion was, of course, the sound of the escepting gas, and the red-purple tracks were merely the expelled gas bisening in the size.

The green gives in the feward end may have been the objective luns for a marching perison. At any rate the walls of the forward part of the shell sectored transport. And the perison grows that have utilized infra-eed rays, for the scene short us second much highlight that it, in reality, was. We could not be the scene short the scene short is second more three the scene short is second more three the scene short is second more three the scene short. It is glumps of the gluming eight of his the clouds of mode that were thing all about, I ranght a glumps of the gluming eight of Astran, high above us in the vest.

I noticed a slender lever, with a correspond disc at the top, rising out of the floor in the bow of the ship. It occurred to me that it was the control Great jets of purple can rushed past the transparent walls about us, and the ship slid backward on the ground. The sensation of motion was most alarming. The illusion of the transparency of the how of the ship was so perfect that it seemed almost as if we were hanging in space a few feet in front of the mouth of an open tube. It was imsolid walls of metal, until I touched them. I think the wonderful telescope worked on much the same principle as television apparatus-that is, that the rays of light were picked up, converted into electrical improject amplified, and then projected on the metal wall, which served as a screen.

(To be concluded)





Out hex-like shapes measured the ridge beyond and they now the fishering lightning of the Adams Ray playing haves among the Sovjets.

The Story So Fas

R ORSET ADAMS, a print America manifer, builds a Cookden R tain, which down of a rea capable of unions of a real capable of unions of a splatere of a descent of the second secon

OLDMIXON has described the extraordinary scenes in mand, which had taken over that part of the for a drive on Riga. The town and the country round it were fall of idle mansoldiers without weapons and almost without occupation, save the common ones of finding something to



cat or something to plunder. The military authorities had almost lost their hold-only German discipline was keeping things together.

The city itself was filled with a wild medley of troops, of all arms and types. The Poles had been drilling lancers, and the best of the horseman of this type were being gathered for the drive. They wrre a heterogeneous force, half panoplied in the great winged uniform of Polish modevalism, half dreated in dirty overalls. Mingled with these were sounds of German pikemen and more Germans armed with spring-guns, air guns, cross-bows and every other type of tension or compression wearon that would throw a projectile. American ray

men were everywhere. and Sir Evelyn's own men of the tank corps, since their weapons had become uscless, had been furnished with hours, and could he seen daily practicing archery. He has recorded his emotions at hearing a Manchester taxi - driver swear when a string he tried to draw a cloth-yard shaft to the

A couple of Diesel stotor German tanks were on hand-quite futile in themselves, as their drivers were armed with nothing

HISTORY tends to show that the method of warfare sistings back and forth itte a

the Middle Ages. It is even believed in some quarters that Archivedes used a number of terrifying weap-our, chief among which were the Cutspaid and termence burning statutes, which are said

In the conclusion chapters, the outkors of the present story have shown prophiestly how

the ornics to go back to Roman toolies, ated the possibilities of the killing ray, because such a ray has already been developed

epsiructurally cepicaling their remaining current in holding the Zeriera. The Zeronic replace error of the takes and therefore prevent the other from same them around them. The take forms from peak other on the Surveyan beaut centilerent realized the out of the other of the

of the results. Measurements an American has been add a minimizer surpluse called the Planets which is demand successful. He is taked, but has accessed, for



more than the stinkpot glass chemical Tentons chung with bumorless pecsistence. Into all this tionalities and weapons, where no one what to do, came the occasional dul plop of a Soviet long-range solid shot. They were from a distance of fifteen or twesty

miles on the off chance of hitting something

On the morning of April 12th the advance started. The German tanks led the way; their powerful motors could be used with generators to supply electrical current for the ray tubes and went up with the first wave of the advance. They were covered by a squadren or two of lancers and by were to prevent the Soviets in the trenches from rushing the tanks. After them came the main force of the Allfed cavalry, Polish and German lancers and then the infantry. Oldmixon was on the right flank of the advance with his archers and a regiment of Swiss armed with cross-bows

He has told us how way. The Russians had not realized how much the war had become one of mass and movethe traditional system trenches with heavy formations in reserve. The ray and spring-gun men cleaned out the have been a wide front gle-the only foes Sir stage of the advance were dead, contorted into odd attitudes by the ray or torn and bloody from the heavy triangular bolts fired by the soring guna.

Related the trench flues, he full has more use the gravest spike schemic is dhe tright where he initiatizity scene spike the evidences of a subtricling schematic and the reyrische that had a scoreposited it for whole scene that was initiatized by the distribution of the spike schematic schematic schematic distribution of the schematic schem

They must have marched for an hour or two when they came upon some Polish hancer, flying back for the innes with despatches, who called out to them in high good humor as they passed; and though no one understood what they and, there was a presage of victory in the carriage and arvety.

Beyond the error of the next ridge was a fambound, where a right add here spiral with a lance opperative states which the next spiral states of the larve to common or the spectra of the larve the larve to common or the spectra of the larve the larve to common or the larve states of the spectra of the larve states and the larve states of the larve to common or the larve states and the larve to common or the spectra of the larve the larve states and the larve state states and the larve states and the larve state states and was to refere. Here noting so much as a local hor even work and common of the larve states and the with the states with a state states and the larve state states and the larve states and common distributions.

After the brief halt, they set out again, marching silently among the graves toward an unknown objective. A freshby-blowed field hald thins up for a moment and Oldminion rode aherd of the men to look down the gentle slope. Then came sudden action.

In the hollow before them, as lie to their right, a dark muss of mars was posted-instrum; in cheer order. He zwe an officer waving a sweed, locad a thin short, size with the column of mars mersel taward them. Lansantly there was configient. A runner was deratethed for holp-covidy and a say their if it was to be had, and more infrarity at all costs. Along the creat of the ridget he men were posted, the Swise cross-how men in front, archers behind to fire over the hous.

Obtaining has left us a lively giveness of his symppredention at that moment. Figh lefts force was quick lacking in short-range weigness—swords or bayoasts. The pitol and short-range combat that so long been view for the short-range combat that the matter had been simply progetter, within' high not low command had come to a realization of the completences of the transition. Now he found

himself on an open hillside in one of the many small and addy-susceted buttles of that stage of the war faced by a superior force and with no means of handling them should they come to grips. His only hope was to keep them at a distance.

The Russians came on at a trot, shoulder to shoulder, shouling, As they got within a couple of hundred yazda, the Swisa let drive with thrir harry waypace, picking their sugrets carefully and the whole of the Russian front rate went down is a bras. The solvance was stryel; reded for a moment, and then began to come on again, in less and order has with solvaitable solvit.

"They applied a full imaging prior to the time. The focus survey of decayed by the necessity of winding their classey weapons and the archers withhold their first first accuracy's size. Then a torrado of the long white sinflar, that had weredoid the dolsizy of France two handled years before, avery access the anomy Lavanian hillidik into the faceof the simult Resultant hillidik into the faceblind strongeld, through the harder of shead and their hears wereast assin.

The charge was billed. Obtained as we nee in the rear pussing increasing and denined planing down their weapons and turning away from the stream of its The karge column of Lanking, and Markelly strength of the stream of the case from them, and the English leader was and charge. He foll wooderfully light-humdo hamcharge. He foll wooderfully light-humdo hamcharge. He is the wooderfully light-humdo hamcharge in the stream of the stream of the stream stream of the strea

The should around his makers were all the face mits ages housings to finite head it at the mits ages housed in the should be and be distant hereines or still grows around be be distant hereines or still grows around be distant hereines or still grows around be distant hereines or still grows around be able to the still be able to the still be distant hereines or still grows are still able to the still be able to the still be distant hereines are still be able to the still de said a new still be able to the still be able to de said a new still be able to the still be still be distant or as still be able to the still be still be proved by the still be able to the still be distant be able to the still be able to the

As it was, there was suching to do but whit. The transition of the elisticar was before and jobs and caller nm down the ranks as the Red leaders about the second second began another about the second second second second second the momentum of a single heavy below this time. Harmingly Otdenkan construct with the Swiss commander and which him subsection is a migperior: panels of German and Reghts that a third of the high for seven as the fung on at right The Soviets paysed just out of bowshift and formed. Oblinions could see their hapvorts glucing colly in the bright multiple-like iso many on the allied side they were hald-sourced mean way with the builtst had bern taken from harfte. But his mon hot nothing to meet their hapwards wild should they came within reach. As he mosed a moment, mean with the atrain of washing, there was a chorus of shouts from the Raysians and on they came, hanced down. Bie bulls.

Again the Sandy surprive of emossive both and the rais of energy Sollening and again the body of the posterior of the sandy sollenge of the sandy of the posterior of the sandy sollection of the posterior of the sandy solution of the raiser that may solve the sandy solution of the raiser that these when would solve the sandy solve the sandward's stable therein of a sandward's which specific the sandward's stable therein of a sandward solve the sandward's stable therein of a sandward solve the sandward's stable therein of a sandward solve the sandward's stable the san

Some of the Swiss were down and others had been wounded in this second assault, but it had been defailedy beaten back, and whited away down into the bollow, disorganized and lost.

Obtained tills so of have he kept his nen verlag nge atte tills eller give fra an have hanger, walling had encoded til so attende attende attende attende to attende attende attende attende attende attende attende takter attende atte

CHAPTER V

Per Aspera . . . Ad Astra?

ORDERATORY the structure of wardnes in a burger given days of the fory wars a silencement of the project structure. At a cross Entropy ents wars will be the purpose, but the use of which they ruind to the purpose, but the use of which they rutio canable the neutron wars. It was not start the that the wardness thereas of up again, Servity as of "The English endrow in Galaxance's database neutron wardness thereas of up again, Servity as of "The English endrows in the start of the the neutron wardness and neutrod training" and mailtury disciplice, of all types of training to which the theory mail or indicated in the start of the target indicated in the start of the start of the start target disciplice, of all types of training to which the

A new acheol of officers prov up, it is true; but these had the rains of their producessors' regulartions on which to build. And by the three they come to the large, the arms and bucks and the new ending way have the bucks of VLL. A structure of the gauge race with binsible weppen guided forward mappenent against knew juliants that away then thom the field; site and knyoes the new lett without ministle wespens to be riddent down by contripmination wengens to be riddent down by contripmination ensay in anticipation division division division ministle weapens to be riddent down by contripmination ensay in anticipation division division division ministle weapens to be riddent down by contrip-

From this writer of accidents and errors, several min types of weapons prevently encored. The Polish theorem at Value showed that troops arrow with this weapons were good for one which wind charges but they could not steed ground, and as at Willian, when they had delayered their motok, the of the new encounter of the multiple with a sword of this new encounters of the multiple set this a synch at history with an attrobulo in a will as a hone.

On the other hand, the Diracl-motored German tanks som proved their value as mobile fortresses from which to operate the ray when properly protected, shough many of them were overwhelmed and captured by infantry by being sent out alone as at Vilas, before this was properly understood.

Infrarry became divided into Levry and light; the hant with lows or all and opting gont. The light infrarry forge blowd their value in the stanmer campaign of 15% when a leve formitistics of Bagith howmen, hacked by pictures from Decandé and German opting gun men, uteriv battle is the band or and Scattering in a speer's battle is the day would Scattering the Northern Allinear and a wheter compaign carried the Allerd streat through the blow county of Fellum a woll.

The ultimate reason for the renaissance of the how as a weapon of war lay in the equally curious revival of armor.

For with the disappearance of the high-reflocity isalict, and the necessity of some protective coating against its Adams Ray, ternor mode its reappearance in the form of light-weight steel plates, covering the entire body and plated on the inside with a which fire of lead to keep the ray out.

The spring guns, firing heavy triangelar bullets, and the powerful type of air gas introduced by the Germans routil only be fired with extreme showmans.* All the combatants essayed to use them, but after a five trials were content to use the air and socing rouns merely as annihilated of the bow.

A company of howfirsh would be stortidle by one planese of all or opping grammers, just as a company of ridenous would be stiffened with machine genetics in the War of 1914. Haif a dones near libertles debund that the sift gan alone was not capable of dealing with archers on equal terms, the most stifing being a Remissin relid on Tirrows, in which the

^{*} Due to the cannuity of working up the proper comprision in the case of the air pure, and to the mode of windley bock in sprage of the symmetry pure

attackers, armed with sir guns, were simply riddled by a force of English-trained Italian archers before their slow-working weapons could be loaded and fired more than once or twice.

The low had always poissessed considerable accurrery, and on account of the arrow's whifting antion, a tempirabilic point of primetrikins.²¹ In the wave strangtheneon. How were the antibiotic point steel instead of wood, conto of oriental textilities inpervisous to moleculars, arrows of aluminum alkeys. Refere the war had advanced another yests no stray wave with equipped that idd on the wave a strang force two world (equipped) that idd on the wave a strang force try for soldiety and Disconsistentiation and antiing texts for the say.

But this is anticipating. The gains of the Allies in the muldicly battles in the north and Scandinavia in the summer of 1534 were balanced by Reselian successes in Hungary, where their fine cavalry swept through the allied line at a down points and went right on to the Curpathians.

The efficiency of the new Soviet carriery led their backet to adopt a rading type of waiting toward index to adopt a rading type of waiting toward index to the scatthern theater of the war, daping the backet and ally country in which the Rominn operator. To this period scenars to folding the laner of the fast remains of the diff Greek eitheration. In the North, after the one battle of Valia 140 whow the Aliko how lifet they have of the new wardraw, bods infol specarity the site of the site wardraw. Bods infol specarity counts to all eff. define the site remains the specarity of the site of the site major combust.

"The Allical scientism measurements, were not like The farst of the total bown badings to the partial, and the science of the science of the partial, and of 1954 the American began using the Wage and the science of the science of the science of the args of exploring the science of the science of the bage of exploring the science of the difference them away, and they performed that define the science that the science of the science of the function are recorded in science and not drive basedon record recorded in science battery ating the science of the science battery of the science near the fact that Ways to respect battery at-

The centrifugal gun was another American invention. It consisted of a dram propelled by electricity or storam, which revolved at great speed, discharging bullets by centrifugal force. An ingenious system of synchronizing gates insured that the bullets were fired in the proper direction. These gam, though they required beavy machinery to operate them, and had no great range, were in effect hiss the machine guas of old, and were wareful weapean when mounted on the Diesel motored tanks which could farith the necessary power. These times were allimitely used in pairs, at say tank and a gun tank travelling together and acting as protection for each other.

Thus the war native on its third years an old and yet a stranged puew type of couldc, with starins unable to itelfie as a distance macring almost by chance, milling each other's territory, celling up the town of the middle ages. All over Europe and Amenia man uwer fighting, puevely aver starting and the land by fallow, while the scientist who had singuistan the same of passes were giving all their energies toward highing new weapons for war. We so of the verse of a saw decrease in this labeling.

CHAPTER VI The War Behind the War (Time-1932-1936)

The transferry of human beings to gather within the shifting circle of the city wall, loganpeter from the discovery of America and the devidges entry of the discovery of America and the devidges entry of the second states of the discoved. The civiliation of the age was based on teabores takes google factorial to the points where it was carried on because at these points by the spring of weather-just as in the early middle agree mon watto was made, in primitive transfer, to agriculture.

The tradency toward congregation was accelerated by the interess of assistent and investigation the archeler produced in factories (and this extended were no local) guined in importance at the expense of these draws discussively from the ground. If still interacting extension that if you at all the boat of financing extension that if you at all the boat of interacting extensions that if you at all the boat products and the start of the second products and the start of the second products and the second sec

By the first quarter of the twentieth century the brains as well as the bulk of civilization had been grathered in a few great citica. All the administrative offices, all the directing intelligences upon which anchery depended for its smooth operation, were three.

The shock of the War of the Northern Alikance fall issued to these points, for it was Steinsoff's plan, like Tarquin's, to strike off the tables heads. Caviliantian exclude, the whole structure was invergint near to wreak, and whon the reconstruction period mass even the addivation of the intervet found that he cause even the addivation of the intervet found that he critics are wall as of a hundred matchets for his structure.

The rebuilding took place in a time of desperster straggle. Small wonder then, that the men of the day, thought they thought they were following the old lines, were in actuality striking out a wholly new system. Divergences which took space under

[•] As early us 1628 as high of prophet, stend DC Shanna Pape wrote a book advecting the rate of the low for human protocols, and the strends built or is to a large constraints protocols, and the strends built or is to a large constraints and the strends built of the strends built of the strends protocols, and the strends builting a pathog here with a high back (screenblage no built could be) and by abouting the strends which (screenblage no balks could be) and by abouting the strends which (screenblage no balks could be) and by abouting the strends which (screenblage no balks could be) and by abouting the strends which thereads the fitness and an acceleration of the strends is a linear Astronome manufactor.

the spar of necessity hecams so deeply rooted in percedent that when the war ended there was no dislofging them. Our present social and economic organization is, in fact, that which was impressed upon us by the War of the Northern Alliance, and everything we think or do bears the marks of that strumete.

To discossed from the general to the particular, tele the case of Boghand. London was particularly worked out by the Soviet hembers har Parliament was not stituing and more of its members escaped to convene at Cantenhury Inter. They had to half of a new generament, for the Cabinst and all the regard family but the instant Princess Elisabith percensers in the local activities.

A fargery was attend, of corners. Its contention clusters is due to the permittents dual to the use to the second second second second second second barry and the second second second second second distants to the corners. To how retified on any core of them would have periodical distantistic and distants of the second second

A similar compressies with firits produced to the great annuals of the Rithia powerimental system. The homisedment of Liverpool by the tructure of Lorden removed these tities from the router of the Rights of the start of the Rights power roubles on the findhal industrial cities, adgene roubles on the findhal industrial cities, adanta which had been occupied by representatives of the three great cities were distributed among the working population on the hash of their industries of a Liverpool pit when the high start of the of a Liverpool pit to the bigh-militor theory for Chargerow the theory are start of the start of the for the pitch of a Liverpool pit the the for theory of the start of a Liverpool pit the the for theory of the start of the Liverpool pitch and the for theory of the forther of the liver of the forther of the start of the forther of the start of the liver of the start of the start of the forther of the liver of the start of the star

To see Singland this adapting part of the Soriet system at a moment when it was sighting the Soriet tooth and nail more have caused Stravell cone arcolar aunacement, but the derives enrold its purpose of binding the industrial population firmly to the pullical parties, thus collect the aptituding it into pullical parties, thus collect the aptituding it into pullical parties, thus collect the astronomy in a social parties. The social parties are appendix social parties and the same country is a strategin social parties and social parties and the social parties and social parties and the same parties and the social parties and social parties and the social parties are social parties and social parties and the social parties and the social parties and social parties and the social parties are social parties and social parties and the social parties and the social parties and social parties and the social parties are social parties and social parties and the social parties are social parties and social parties are social parties and the social parties and social parties and the social parties are social parties and social parties are social parties and the social parties are social social parties are social parties are social parties and social parties are social parties and the social parties are social parties and social parties are social parties are social parties and the social parties are social parties and social parties are soc

Meanwhile, the Regroup was prosecuting the way with surremiting wight. It believed up the Allies and was instrumental in the argumination of the Perilmonet of the Alliance which now legislates for the world. It was not till 1933 that affairs at home were straightened one by the and of the revolt in the Grampians, and not till 1936 at less that the Triph were fample gotten mades. That they were conquered at all was due to the Adams Ray tubes on one hand and the oath-and-deportation policy of the Lord Research Pennybeld on the other.

An oath of allepiance was exceed from ererg person in Leikuin. Those who evident to take it or who were found to have broken it alter taking, were deprote to the United States andre the terms of the Northers Allinoce, their playes bring taken by Astratilia and Consoline verterary. There was much barriburning over the arrangement, last the Regency was powerfail and the consoling and the United States welcomed the depretes. England and Ireland were the first construct to be fully scalified.

The chernelis was the course of writes in Finance White a government, without connecters or indurity, without paper, and with bank of maximized and the second se

"They reception of foury V as King at Poincass, and all orders one the Legitimits risk were insued in his name. Gendaulty they began to win, for though the loses were remaining the bis size, show of the Lagramists were constantly replaced by Kabyles from Morcoco and black from Sengel, while the Communists had only their own membership to draw uses.

The Lagitimists paid heavily for their victory, for the backs and Benken had come to stay. To diamias them after the victory was to risk the very foundation of the Lagitimist stars. On the other hand these was no such perjudice against the negroes as in the United States. This captions why Charles XII, King of Praner, rules tody over a nation of nixed multito, Benker and Lauin physical features, speaking a rough dislect of the language of Victor (Iucs).

PART IV

CHAPTER I

Retrospect

(Time-December, 1936)

THERE were three mon gathered before the fire in the grate. One, whose pointed band moved with deficiently, but in the throken body resided a spirit to high that after ages peoples have henced, the maximum of the deficiently of the spirit band of the spirit of the spirit of the spirit denser and hence the max of action, the tight am of the cripted President. The third, heavily built, and with a dark, powerial ince, was unknown compared to the others; yet if they represented thought and action, he seed for the information on which thought and action depend, for he was that Walker Addil who, so shift of the Intellignene Department of the government, had accomplished such marvels.

For the moment silence had sillen on the little group. It was the President who speke first. "Turn on the radio, will you, Hirbert?" he saked, "Schofield's call this morning sold a battle was immineret."

The younger max went to the back of the room and folded with the keys of some interment. It shots out a permonitory heam of light, gave a few instructurat gave, and then heart into rapid posed, the scene kg its side showing a spicerse of a max in grevy-grean uniform with the balase of the United States on his soltar. He keds a helmest in one hand, he scened if tool and his is chefters over a posted with mode, but the expression on his face was one of pleasare.

b) the opting questers of the third German metricities," but info the second-title, the Baface atomic questers that make to bus heavy retire that atomic questers that make to bus heavy retire and anyou the in the most second of the third by the German cerebra, it bushs were the the the theory of the the theory of the theory of the theory bush heat theory bushs to the observation common bushs, and Wagatali and to the observation of the theory of the output of the theory with the theory of the theory of the vertex of the theory which theory and comern Restored the theory which theory and comtent Restored the theory which theory and comtent Restored the theory which theory and comtent Restored the theory and the theory and theory and the theory of the Restored atom theory and theory and the theory of the Restored atom theory and theory and the theory of the Restored atom theory and theo

It was the President who spoke first. "Thank God?" he said, "the end is in sight at last."

"I don't know," said Adsill doerly, "those new air guns the Soviets have are better than anything I've seen yet."

"Good enough to beat the bow?" asked the youngast of the trie.

"No-o-o-o I'd hardly say that," replied Adsill, "but they're a much improved gun."

"Oh, well-" said the younger man, "we'll each up to them. These things go round in circlesfirst the bow, then the old arquebus, then the improved guns. Now we're hack to the bow again, with new guns consign in. There is a little improvement in each evel."

"Yes," said the President, "and perhaps this is the cycle in which we will end war and guns."

"You're an Stealist," grunted Adsill, "War will never ston till the south does,"

"I know people have been saying that for centuries. But it has been growing less sure as each succeeding generation has brought the nations closer together. No one, not even Woodrow WHson, world have dreatmed of such an international perfavored to the Alliance now has, or an in-

ternational executive boad, able to enforce his order, his order,

Pro and Con

"T wouldn't have been possible, either," said young Mason, looking up, "Without our mod-

Addiff's still was andihit. "Not an antitized blessing, J should say. Everybody in the country listens in and it's impossible to conduct any delicate neocliticons."

"Way whends we?" shade the Pendent," It forth I have inpt same mattern accret, have there were in almost every case, inclusion iniliary questions. It is a statistical of policy of the country cyclic, Addill. Could we have developed our person system of athing have without everybody litering inf. You resember, it was an obcure Okklonn register without everhead the totalical dissudent who pare an our present system of hadden who in novagh the active balancette."

"Ten," Masse continued, "I think a sense could be made out for the television radio as the presset civiliant. Thanks to it, wire internationalizing longnaging and Bods what we are accomplishing in sitenze. Which remains ma, by the way has BOXU of Cooled aniversity is holding a forum torogen on the calculation of definite programs that the second second with a forum wight he interested, eff."

Tot, I admit, and Adall, "Mast the system has non-advances," and it addia individual effort. Balaier this individual effort, and the system wave and a problem would get off it a correct scarwhere. He would go to work hand bears in them that the ereal did we can he conceptualtions that the ereal did we can he conceptualtions that the ereal did we can he conceptualtion of these farmar, and new class is his income the ereal that the ereal of the source of the second and spaces and the ereal has the conceptualties of these farmar, and new class is his income the ereal that of a committee. These are joing and diget that if a committee "These are joing and arguments and of them would concern something has to depend upon his provenant for a subsect version has the level of hannorms".

Then we are propercises faster this way." Masses pointed out. "The world have taken years under the old system to perfect and introduce each improvements as the Waystaff. Now the matter is taken umbers an experimentational board of invention, each number an experiment. And this all contenting topether, and in a few months encryrone is able to fly the new matchines. And this of the improvment in obtaction since the radio came. When I was a 1 all we had to append and are saven boards day in school. Now children get it all in their sloop by radio. Why, it's done away with all that was dangerous in child labor without the necessity for legislation."

"Yes," said Adsill quickly, "and it's producing a seperation of illiterates. How many children learn

"It is there any real need that they should?" the President broke into the convertation, "It used to be an advantage to read and write, just as it used to be to handle a gun. But the Adams Ray has eliminated the gun, and the pictograph has done away with the book. After all the sooken word is more effective than the written. And now that we can listen to and see our stories on the nirtograph. why should we bother with clumay and dirty books. which always imposed a barrier of type between the mind of the author and that of the reader?"

"Nonsanse?" declared the Intelligence chief firmly. "The oletograph is valuable only to readers of light fiction. It does away with all deep thought, with philosophy, with all the amusements of mtellizent neonle. You can get more of Kant or Sninoza from a small book than from half a donen pictographs."

The President laughed. "I'm afraid you've chosen a bod example," he said. "Harbart, would you mind reaching under that table and handing me the pic-

He extended the small box, hardly larger than an octave volume, to the Intelligence head, "Look at this, Advill. The new edition of the dialogues of Plate just issued by the Doubledays. You can get it in your pictograph machine and actually hear and see Secretes confounding the nonhists under the Golden Porch. It's ten times better than reading the hicless printed words. No, Adsill, you and . belong to a generation that is pussing. The new world will do away altogether with our clumsy printed sheets, which use so many unnecessary words in conveying thoughts. It moves to a quicker and more complex tempo."

CHAPTER II

An Entry Into the World (Time-February, 1936)

"O a man newly released from jail, freedom in Mellen, newly released from the West Vuginia penitentiary at Morgantown, hardly noticed the intense brilliance of the clear and frosty winter day as the big door clanged to behind him. His shoes erunched in the more as he wilked down the slope of the hill which led to the center of the city where he could take the electric line to Pittsburgh. His thoughts were in a whirl; he was unaware of any concrete idea but that of getting away from there. Many times he had mentally reheared what he would do. Now that the moment had come, it found him filled with a febrile excitement.

In the back of his head, he was dimly consciof tomething wrong with the two interarban clostric cars that stood on the track on Morgantown's main street, but it was not setil he walked up to the door of the store that served as a "Waiting Room and Station" that he realized definitely that some change had come on things. The "Waiting Room and Station" was locked, a poster advertising EXCURSION July 12, was crazily askyw hehind one of the dirty windows, and beneath it a small collection of long-dead flies was gathered in a heap of dust. Harve Mellen turned, a sense of mnamed disaster making his beart beat fast. The left them exposed; the cars were lifeless.

He nicked his way across the street to the chean restaurant that adorns the main street of most country towns, perched himself on a stool and ordered coffee and sinkers.

"What's happened to the electric line?" he trusted himself to ask as he stirred sugar into the muddy

The man behind the counter glanced at him curiously. "Out of business long ago when the war started," he said, "Been up for a long stretch?"

Harve Mellen nodded, and the other turned back to his collee urn. "You'll find things different," he offered finally. "There's the war and those nightriders. Where you headin' for?"

"Pittsburgh," mouthed Harve, chowing.

"Huh?" shortly. "Wouldn't go there if they gave me the place. Liable to get the top of your head blown off. They're going to send a train through today though. Go see Captain Rouse, fourth house

"Why do I have to see anybody about taking a train? Is there a law on-convicts, or something?"

"Hell, no, but the hills is full of nightriders. You know, the war, the Bolsheriks. Didn't you hear, They raid the towns once in a while. We don't get em much though. We got a couple of centrifugals in town. . . Ain't you got any labor tickets? We don't like to take money."

"Labor tickets)

"Jes, you are domb. Yeh, labor tickets. You'll find out. Ask Captain Rouse about it."

Harve found Cantain Rouse, a nomoous centleman with sandy has, dressed in a prev-preen uniform that was unfamiliar to him, at the house indicated. He had evidently just left his breakfast. and queried with some annoyance, "Well what is

"I want to get Pittsburgh and was told to ask you about it."

"From the penitentiary?"

Harve modded. "Don't move your head at mo-Speak! Say, "Yes, sir," Do you know how to handle a bow or a spring oun?" "No de."

"Mmm. How about a ray tube?"

"I don't know anything about them. I've been in -in the pen for six years."

"You have, sh? And heard nothing, I suppose? Let me tell you, young man, you are poing to find things vastly different. We are in a new ago. Where's your fare?"

Harve produced money from his potket in silence. "Oh, paper money. No labor tickne? What do you do? Chemist? Good. Oh, Foster," he called back through the door from which he had emerged. "Take this chep's pedigree. He wants to go to Patchurch."

The cryptic references to mency were explained by Forter, a smilling youth which appliered choick. "Paper mency inst worth much any more," he ifoformed Harw, "and there isn't any illere measy. Everyhody uses labor tickets. You wouldn't get half way to Pritherght on what you've get here, but they need themistic and i suppose Captain Route is conding you along. Where were you hore?"

The hadrons of the polyree fielded, Porter ecompanied hims along a lack starts to where the train stock on a switch. It was different from say he had ever sum. The engineter k and and the cultender were multi-line an engine two by a commetting and the stock of the start of the start of the recent due sides. At the end of the train was another of these removed ears, while hortwore, instand of the familiar paissenger couldes, were a string of the a familiar paissenger couldes, were a string of the a familiar faiture of American railroads.

The windows of the day-contrise sourced to be composed of very thick glasm, one millike that which world is the engine, and near the center of each window was a small aperture. The platforms were commercid, top and ables, by the same spin glasm. Several men in group-green millions like that the captain and Foster were, were standing about the train, monking our tubling in the involve along of them aerical long that of stad with order along and this of involve mybelitd.

"Stream Gowin," said Poster, stepping up to one of the men who earled no how, but whose superior rank was indicated by chevrons and a sliver whistic shung around his neck, "This is Harward Mellen. He's chemist, and L have jour negistered hims as a private. Geing up to Pittsburgh. Got a bodes for him?"

"Mellen, eh?" said the sergeant in a flute-like voice, offering Harve a hand which he noted was curiously soft. "All right. Can you use a how?"

"Oh, yes. Come along. Th give you a hadge," Harve was led to the baggage end of one of the cars, where the sergent opened a door, and burrowed inside to emerge with a throe-inch bagge covered with growgeron ensuit, from which dangled a green riblon. He turned to Foster, "What's his number?"

"(BYJ 134," replied the latter. "You can have him marked at Pittsburgh." Turning to Harve, be wild, "Sergram Gowan will see you through. I don't think yon'll run into anything serious, although secue night-riders have been reported at Little Washington. She'll tell you everything you want to know."

"She'll!" Harve realized with a sense of scute shock that Sengeant Gowan was a woman, and with eyes operated by the discovery glanged at the rest of the group. Surely that was a woman, too, and that one over three. One couldn't be sure . . .

Sergeant Gowan led the way to a car about milway of the train. The door through which he reached the physicinon was of the start glaves and the start glaves and the start glaves and was neary and blaith in tone. As he glasced at it inquiringly, the arguman suitable. "Glass," also add in assure to his lock. "It's proof aguint arrowsnother but as reminerent will be on the add in it."

Mellen's Baptiens

Harve turned to Sergoant Gowan. "One thing stribes me," he said. "Where are all the guns? Are they peakibled or have people forgotten how to make them?"

She arnibed again; he began to think it charming. "That's the first quotion they always ask," also asid. "No they haven't forgotten how to make gunt, hut explosives aren't any use any more. It's the drawn Ray-wie stut off explosives within several mille. We have two generators for it on the train. You any the first and has cars?"

"Good Heavens" said Harve. Sergeast Gowan had put him at his case, and the inrush of new things on his observation had much him forget that he was newly out of prison. . . . "Why--that puts us back, in the muchle ages! And this work"

"The Service. You have hered? They howhed Washington oral killed the President and most of Congress and managed to make so much truthle for the hig cities that most of them are half depopulated. The Unions, you know, The Allies have an emp in Russia now and were winning, but in all these mountain districts that are planty of algoal lake waves for thim to out outd down."

Harve Mellen gazad out of the window. The train was rounding a curve on the shoulder of a mountain. Across the valley a cleared patch could be seen, the fields disorderly with snow, the broken panes of the house staring drankenly out through black branches. "But I'm , , , a criminal," he said at fast.

"Only a legal erime, though, wasn't it?" she and with a quick glance in his direction. "Bootlegging or oil atock? We don't worry about those things; my more. There's too much to be done. You must have passed the commission's extentiation or they wouldn't be studied you go to Pittabarepk."

"No 1 exemples. I though it was something the the parale boost. But those numbers? "Ch, everyone is theoretically in the army taw, the service of the service of the service and the short the second service of the service service of the second service of the service capitan end how to handle a wanger. But we would be that anyony with the night-reline and. You'll probably get a commission-demainty is intulotion that with the "

Not was intercepted by a multim chance of logges as the train care to a paring stops. The Worlf Cried Sergent Grows, proving hum, into the shifter of the stops of the stop of the land; there was a terrific cards, it shower of the top and be based from matther. As the signification rat do based from matther and the stop of the land; there was a terrific cards, it shower of the theory of the stop of the stop of the stop of the theory of the stop of the stop of the stop of the theory of the stop of the stop of the stop of the theory of the stop of the stop of the stop of the tand quintying in the flow. Someholy clied as in the stop is block out the stop of the stop.

He poked has head up to look out the window and awa a kilode oversed with trues samong which men were moving about jone or two kay on the ground, and acoustics, a wangleby forcased man with a baseri, was trying to creave behind a tree, with an across taking atoms indexed based on the mose. As a result of the same transformed based on the mose, the prophy dreased many one structure bin right in the side, his limbs seemed to give out and he kay atili, truthehan allubit.

A heavy vole, with the metallic secents of a mechanical device, produltment from somewhere. "The track has been blocked with old raik. Volumteers are called for to don't. Working party will be potceted by centrifugals." Harve larged to him, and located Sergent Gowm near the door. "Til volumteet" he read.

She gitaned at bim, pointed to the door. "Through there," don streed cardy. "Hence a behave." There was a flash of light, a path of choking sends. "Watch the face-arrow," staid someone, net, with a bang of the door, Horve was out into the cold winter day. He reced toward the engine. Something strench the side of the care with a dang, and he realism with a side facing of face that they were trying to fall him. His impressions became a haze of excitement.

With Reventa others mindre the commission as a generat (no women shirt) hose longen to hand at the ranty needboard of mil that encombered the track. Ho is min a glasses as the crace bolind for engines, that part of the node hand learn lowered, and an apparent of the sole hand learn lowered, and an apparent on which and gpin forth' isto a determin the shower of arrows about the working party decreased in intensity.

"Doth't know we had cominifiaging," assumente crited provide the second of the second to be a second to be a right through the max next to Harve, "Ob, ou,", and the man, periodicy at shough the were reprodoing a magnity child, and alumped grantly to be ground. Harve staggered at the weight of the rail they bud been having together came on his arms, pulled, beet, and pulled sects.

A shudow passed across the snow. Harve gianced up, saw something like a great bird, heard a cheer and a shout of "All over."

CHAPTER III

The Individual in the New World

(Time-December, 1936)

The human salmal has an amaring capacity for adjusting instal to comitsments. To Harvan and of the work, it hardly same that has had a way been as the same of the same same same same same as the same same same same same same and a disk in had is send on to go on twisout his ray-protecting glasses; like thousands of others in had common same to go not wisoblem in a had same of any stopped by a policienta, desirous of sening the number tatlood on the farm, at a commonlose.

There was handly a ripple in the tide of life to inficient that has wera living in a land bileguered by war and revolution. His daily existence was not vastly different from what it would have been before \$430. He rose in the comfortable room overlooking Schenitery Park, at his hurshifast of eggs, coffee and toast, took an hour's exercise and went to work.

The charges were multiply in 10th things in the office is dealed with regulation; it is Mouth cancelles office is dealed with regulation; it is Mouth cancelles archargy parafies in the part is the newcopese is readulation of the second of 20 pages with the rest Moand when her without of 20 pages with the rest Moand when her without the dama of labels for 1 plotsing and the law walked to apped an evening in 1 Mother the second of the rest of the the second is fared farer them special plot were a technical book is fared farer them special plot were a technical book down and the second second with the rest states the second down and the second second second second second origination of the second second second second second constraintly constraintly outwards to second second

On a typical day in December, he noted in his abbreviated newspaper a communique from the Rustian front; contrifugals and cavalry had broken the Russian line and the Allied armits were obsing in reand Taik, where the last sterngth of the Soviets was gatheted? precident d& Roberks thad appendent a new man to the War Counsell; a trian from Cascinnati to Pittatorgh lab been wreaked by nighriders with the loss of most of its crew; a asolice that train service to \$L. Louis thab been discontioned in favor of aerait engrees and paisanger sterviets; a badget of small local items, and the oninch ads allowed to every merchant who wilked to advertion.

"Energy weap to the biocrussey (when he ind fintion bin starticity predice) in as detected to order you have sough thave done before the war, studyed his detected to be a starting of the old days. Dimons was hid at a public contenentions radio delivered music from a distant day or using hear with simon in his principation with the radio large end the days Sergental Gaven was in town) after ward hours in the principation with the radio datawards ward whom at some taken with the radio datawards ward whom at some taken with the radio datawards ward with her ho his rooms for an eventeralizing the to evode of thisms.

"War and all," he would say, "we are fiving better lives than were possible in the old days."

"But isn't it a fictitious prosperity," Sergeant Gowan would argue, with a woman's tendency to conservative misgivings. "Wars are like fevers. Tacy sheetys bring a temporary flath."

"Not this one. The flush is due to inflation of the currency, and you can't inflate a currency that is based on work and not on wealth, because you can't increase the amount of labor that is done."

"And don't you helieve that peace will put many of these workers out of work? It always has."

"I shade it. There are so many basels seeded for regulating. Our system is butter, too. Take the case of the luboratory where I work. We have there encomprohenes. Work is also kip int now, and has been. Under the old system, next of the interpoe cight weeks hunting for a join, and we would have beet that much laber. As it is, Colord Mary meetly reports that he has an extra standard have how that much laber. As it is, Colord Mary meetly argonic that has he has not are standard have how the detailed to the LCenery size where they need meet of consists. If a low much next

"Yes, but in gaining this efficiency, haven't we tost some of the finer things? Perhaps I'm too young to know," she milled, "but it scenas to me that there was more elegance, more easy living in the old days. I remember what good times we had at hence when we were elikiters and my mother never had to week. That sort of thing."

"That was just the trouble with the old days. Our civilization was elegant because it was bocoming decadent. Everybody was too bary lavving a good time to think of seriout things. Life was goting itself filled up with liftle hypotrisizes and like, and growing more and more rotten at the bottom-We needed this dip into the primitive to clear the air. When life and death are immediate problems there inry times for goesin. For instance, you wouldn't have dared to visit me here; it would have ruined your reputation and our friendship. I'd have had onerry you and we'd have hated easy other for the rost of our lives herenes we had ban faced into it. Now exervence is too have to care."

"Admitted. But what about books and art and that sort of thing? We aren't producing anything new in that way. All the pictographs are of the old authors."

"All that will have to come later. We're merely string. Do you cover read Darrini or Ellisowith Hantington? 'They will tell you that a nea always declins unless started stelection that a chance to operate. Under a eivilization like the one we are leaving beining, the unifst are preserved and oven get to high places. Now we're eiininating the unif. We're back to burbarism for a mittute; we have to bu, that n finer eivilization may rise out of the rains."

"Are you so sure that the new civilization will be finer?"

"Well-pars. The minit are point. Who would have there it is expected that criminally is a startified bare there is a start of the start

"True enough, no doubt. But still, I think were losing senething. Where is one demostrary? Deart you think the men who were the Constitution would hat to see us now, with everyone in the county entolled in the army and under orders? And where are our stata and local governments? There haart been a mayor of Pittsburgh in four years."

"But democracy is not so much a form of government as the optic bindial it. England was as democratic as it could be under a king. Even before the way quartering with and impeding the predicter two quartering with and impeding the predicter theorety dort you think the present system is bitter? No use is losing anything by not voting. Here I and for lattering just cold of prices, and Turabendy a copesing. There was anothing filter is before, "some the price may anothing the other set."

"On, are you? I'm giad. Yor'll be a colonel soon, and won't be able to speak to a more sergerant. But about the system, I don't know. Didn't the Chinese have something like that, years age? Exminations and permotion and more examinations, till it was all a matter of memorizing things and
their civilization became stagment. I'm afraid we're going to get something like that—a mere rule of efficiency, in which the individual will be a kind of rohor?

Hisrow Melles mused, "That's on the knees of the future," he said finally. "Perhaps you're right. . . Still--" he fung out his hand in an expansive resture. "This doon't look like it."

Margaret Gowan looked about her at the room with its dark furniture, rows of pictograph books

and orde except. Out the window the lights of the city were window starts the prich like planets against the event binks of the Monogeniah bills. Along the event where boards had been before the revisiotion, the guant outlines of an electric bricklaying magning atom eigenst the size, while byoard them sound the orderly row of lights that marked the passing of the might arerial asymet for SL Louis and San Francisco, a symbol of new hopes and enterprises rules guar of the worke of war.

THE END

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He turned the screw and sent the whole force of sir into the legs of the table. Up want the map of Doli into the sir and with it week field into the sir and with it week field into the sire of square milling accept pervend in period horses.

CHAPTER I

An Emperor's Wish

THE Emperer of Gobi sat proudly on his mar-

Below him on the Steps of the first Magnitude sat the Soven Wise Moa, on whom the Emperor depended for the welfare of his realm and the continued nearer of his density.

And on the other Steps of Magnitude, of two down to seven, stord the nobles of the realm, all of them selected because of some beilling otherways mean adding to the splendor of Gobi.

The artise the other the Seren Wite Men real from gathermost crosslik the record of their departments for the past month, and the Emperce praised them for all few which they had does expectingly dilated the series of the series of the series of the Royal Engineer and the Royal Mathematiclan, the Royal Engineer and the Royal Goographic, for these three men, separately and he unities, red of the plant that they full prepared for the distribution of the Land Gf Mo, thut great Kingdien of the South, which duced to dispute white Good the ar-

The Emperor of Gobi had issued orders thist Mo must not only be compared, but actimally desiroyed, and for moniton the three Wiles Men in charge of these departments of Mathematics, Engineering and Gongmphy had similar devices the problem. Now, they had a plan, and it wass a good plan, and at the end of it Mo would be no more.

There was one faw in the branky of the plan, marky, the time that sum to taken to accomplish it. Transfs had to be dug under the sex, and midto the great pulks of water, separation had to be mode of Ma from Gob₄ and even though all of the alseveand all the machinery and the preat shift of Gob₄ though all these were put to work, rill, yrars would have before the desired and would be accomplicited.

So, the face of the Resperor durkennel, for he was new passing his fity-nimh birthidy, and he knew that ere thirty mere years folded away he and his Seven Wite Men, and all who hud helped has make Gobi great, would be weem food and durk in their galan coffins, or else so old that thir greatest werry would be the dragging of breken holdes



ity, for who of an still be here to nee this anding of our energy thirty years from new? And what constort if a frow of us live on, yet lack the mensial power takes away from us the weight of the years goes by, and there would be astifaction in the perfacting of years plans. Give me abaulors the weight of years, from my head of years, from my head

the whitened hair, from my face the little wrinkles, fateful handwriting of Time the Conqueror, and then you can destroy Mo. Which of you Seven Wite Mes can make a man yourg?"

Siless, the Serves looked at each other, fadiling their fugers and toying networks with their dragonian rings, emblan of the immotality, that they Selleved in but keled. The Dragon, evaluation his still, the never anding, ever beginning, symbol of fadkets youth, made the golden ring accred to the Storm and to their Respective who had a ring with the server and the sellent ring accred to the Storm and to their Respective who had a ring with their server only wells.

Then the ruler from his former commanded that server of its alternet by brought in, and thus to has had had. Chief Executioner kill in avera various ways, by the altiten conf, descipitistics, the balacting from the vering, the grounding of molten lead in the ear, the goints model areas along years the systellal, the planing of one darge of platon on the tengrou, and, finally, the fright death by command, whereas the Mighty Railer orders that the man dis, and he dire from har of blue disinfollow.

The seven dead bodies of the slaves lay stretched on the floor of the palace, and the Emperor ross and whispered,

"I can give death, but I cannot make myself live on tEl I see the ending of Mo. Listen, Seven Wise Men; am I Ruler?"

The seven bowed

"Then pay attention Meet me in three months, and at that time tell me how to proleng my life tenfold so I can glory in the conjury life tenfold so I can glory in the conjury of the county that I hate so much. Do this, or I shall kill the Seven Wise Men, and other men will take their place and wear their dragonian rings. And

through another day. Of all his illustrious fathers, but one thing remained certain, and that was that they lived a while and then died

And thinking thus, his face grew hard and read, and he chewed the end of his mestache in such a way so to make the Royal Barber tremble. Finally he cried: "All of your plans are folly and your thearing foolish vanW HEN us glob up one of Dr. Reliefd dories, we may always be assured apsurething sourcement-of a new and reinsulating chain of ideas. Table seenth he treats so to a darrening filler orseance, or out of the ordinarga-no different from the areal ordinase fellow dories, that is do different to classify fil.

Ristery about that eiviliantism have their cycles, around the set of forth from harborties to a high seak of seizes and forth from harborties to a high seak of seizes and follows and then book again. Ristantism one carried black correctly about attainment on the series that the of the search. Here high they uses have prose, the entern has attempted to depict in this of. the manager of your death shell not be a case, as was that of the seven sloves. But you shall have weaks in the ending of life, and all the time you shall have due cause to reflect over your lack of institute, in that you could not make me. Uve an inge grouph to glow in the failed Mo. Now T and ong enough to glow in the failed Mo. Now T and one of Gobb, but all of your withdom will not ruffice unlows you give this immortality on me."

The High Prizzt's Story

THEY bowed their heads and withdrew from his roles should not touch the deal bodies of those who had died to teach then how they could go on living.

Other slaves came and removed the carrion, and the Nobles left the great hall. At the last, only the Empetor and there. He rang a gong, and at that summons came the High Prisit, a man who knew all the wisdom of the Gods, and what he did not know he would not admit. And the Empetor permitted him to its man time.

"Tell me again, Norsaus," the Emperor asked, "about the dragon, whose ring I wear,"

"This dragen lives far to the North of Gobl," the High Priest began. "He lives perpetually, with his tail in his month, thus, never reaching either an ending or a beginning, but going in a circle, which is an emblem of eternity, of immemorial, immortal life. Yet is he nothing like everiasting, for every seventh year he lays seven eggs in the sands of the desert, and of these seven he selects one which he awallows, hatching it out in the heat of his stomach, and when it ripens, the new dragen usts the old one and emerges from his inner gut, but is his body is the soul of the old dragon and in his head the wisdom of the ares. And, thus, is the life of the dragon renewed every seven years by means of a new body, but the skin of the old dragon lies dried and bloodless on the ever shifting sands."

"A pretty tale, Norazus, but is it true !"

The two men looked at each other. Then the Pricat whistered :

"What if I showed you eggs of the dragon, some of the six that he discards and leaves to turn to stone in the sand?"

"Eggs or stone, what boots it? How can you tell the dragon egg from the giant suk, or the dodo, or other birds that my wise men prate of?"

"Some things must be taken on faith."

"What is that? A bubble for children. We are wise. I wear this dragon ring, because it is the emblem of powers. My Father and his before him wore this ring, but we must seek elsewhere for life everlasting. The dragon may know how to renew himself, but we cannot use his power."

"Have you benefited from the daily blood of a new born child?"

"Not much. In fact, I fear that it has harmed my appetite. The meaks are not as good as they were before I toole this tonic. Several times I have belehed, mixing necessary the death of my rook. No, Norsens, let us work till the Seven Wise Mon report on their method of producing like. Whatever they advise, I will share it with you and with them. But we shall never learn the societ of the Dragon or of the Salizmander or of the Phoseik, who builded is first for a new life through the burnver builded of lody. Not in such forms must rerectedual of lody. Not in such forms must rerectedual of Mon⁴.

At that time there wave three great Benjtes in the world, Attaints occupied all of the land weat of Ireland, an island reaching far west, till from its intrhemose theres the coast of Anacina abswed as a purple have on the horizon. From this contry west traigrants to Egypt, Greece and the other countries of the Barbarians, bordering so the Great Ste.

The Energies of Mo filled in all the great waves that is now covered by the waves of the Pacific. To the during a proper sequence of the pacific sequence is a sequence of the sequence of the pacific sequence is an advance in sequence with Control America. It had continues all through North and South America, the South of the sequence of the Ad-Cone-Code South of these modes were commercial, obtain were to separal the service of the Ad-Cone-Code South of these modes are commercial, obtain were to separal the service of the Ad-Cone-Code South of these modes Review, where America and while of the Code Review (where America and standa, were insteaded Review, where America and standa, were insteaded Review (where the other of the Modes) and the service of the Ad-Cone-Code South of the Code Review (where the other other other) and of the second secon

The third great Empire was Gobi. This kingdom occupied sil of Asia, at that time a low land, covered with fettile plains and dark forests. There were little rolling hills, but the Himalayas still thembered unborn in the womb of the aarth.

Of these three countries, one gave, before its destruction, of its learning to Egypt, which, in turn, made the culture of Greece possible. Mo, most brilliant of all three, as far as learning was concomed, died so quickly that nothing remained save a dim memory in the places where once her prooles had ruled in their might ; while Gobs, shattered by a grim cataciysm, managed to live on in the deaperate cold and barbarous country of Thiltet. The three lands died together; man lived, forced by circumstance to format all that these countries even knew and learn it all over seain. Gradually, humanity rose in the scale of civilization, and by the time fourteen thousand years had passed, man had relearned perhaps half of what he knew before he had destroyed the three fairest empires that the world had ever sten.

CHAPTER II

The Wise Men Found One

A the end of three months the great man of Gobi met again, but this time no pleateous oplendor marked their gathering. Secretly, they met by night in the bornels of the earth, many feet under the Palace, in a room that only a few of each generation knuw of and which none ever dared to name above n whiteget. It was a room of black markle. Around the walls were nine drapens of red atons, and from their cycs came a glow that lit the reorn. In the help of each drapen was a sait. Thus, there was a seat for the Emperor and one for each of the Seren Wite Mes and use for the least thirty ellip or the serence when and her har factor thirty ellip or the serence has and her har facen and there was no unstraid head on the face face on har there were seither books are fetters.

The Choci of the Navy of Gohs hegan the tale of the stranger.

"Oh! Most Illustrious Emperor, Representative of the Dragon in human form. Weaper of the ring when you commanded us to find for you the secret of longrevity if not even that of immortality, each of us went his varied way to find the answer to your command. To me came the inspiration to search the sea between our hand and Mo, in the hope, that among the prisoners whom I might capture, there would be a man of learning in the art and sciences of the cursed country of our enemies. In order to examine those when we captured.] took in our flott one of our learned men and other men, skilled in obtaining the truth from such persons, no matter how unwilling they are to disclose it. We cruised for some weeks, and took several vessels which had sailed too far from Mo for their safety. Of those whom we captured, we killed the most, either as ignorant folk, or else stubborn ones who died when the tormentors beran to work on them. However, we were fortunate in obtaining one of their physicians, who, when he found what we wanted, claimed the power to lengthen life. This man you see here; if his ability is equal to his boasts, he can satisfy our desires to prolong the life of your Highness."

Heracles

THE Empirer looked thoughtfully into the face of the young man.

After a long pause he asked:

"Have any of you Seven Wise Men questioned him to find wherein his power to prolong life Ecs?"

"We have dens so, Your Highness," replied the Royal Physician, he who knew more about the healing arts than any other man in the realm. "I usined over the matter with him."

"And what opinion did you arrive at concerning his method?"

"It has all the elements of philosophical treth in

"But will it really work to the lengthening of hie?"

"That cannot he said without a trial."

Again allence, filled with suspense, covered those in the mystic room, the sacred Hall of the Dragons.

And then the Emperor asked the young man :

"Are you a man from the land of Mo?"

"No, I come from far away Atlantia."

"How came you in a ship of Mo?"

"Years age, as a child, I was taken prisoner from my home, and since then I have lived in Mo. They theneth that they saw in me astenishing somets to be a physicker and a dealer in drugs and magical healings; so, they taught me all that they knew, and, of all the young seen in their college of medicine, none lnew more than I did. And when I was taken by your ality, I was voyaging to a far land to heat a mighty man of this discusse."

"So, you have no tie of love for Mo?"

"Why should I, when they killed my family and took me from the home of my childhood?"

"Would you stay with us?"

"One place now is as good as another, since I cannot he a free man,"

"But suppose I make you free? Give you a place at my right head?"

"It would all depend on what was in your right hand," answered the young physicias, and there was no fear in his eye as he said it. "For I have been us the prosence of the King of Mo and I have seen might cons and at him right hand and die there, from polocool whee and the alloen cord around then proke."

The Emperor frowned, for even so did great mendae in Gohi.

"Can you make me live heyond the age of common men?" he finsily asked, and in his words was a great longing for yours sufficient to see the ending of Me.

"I can."

"How?"

The young man eased himself on the floor and then mode his answer.

"The life of the working her is six weeks. It works that long and then it dits. Mo is full of flowers, and the bee is there a sacred insect, and for centuries the Rôyal Bos-keepers have studied the habits and mappers and diseases of these hera in the Royal Hives. So they know that the working bees live six weeks. But the Opeen Bee lives for five and sometimes six years, and all those years she is lively and full of vigor and does her work in the world of bees with a healthy constitution. Long years ago this difference was seen in the relative age of these bees, and the men who worked with the bres tried to lengthen the fives of the workers so that more honey could be produced. But no one was able to tell why one hee lived six weeks and another five years. And then I was told of the exection and how the wise men had failed to solve it, and I worked on the matter, and now I know why the Oucen lives so long. It is all a matter of the food that she cats from the tune that she first crawls from the broken egg shell. This food, the copen jelly, has in it the elements of immortality, I think if she were protected from the younger Queens, she would never die, but the time comes when abe is killed, and perhaps that is best for the hive-but, at least, the lives a life that is pently two and fifty times as long as the existence of the working bee, who cats what he can and when he can, and dies after aix weeks of toil."

And thus, as the young man came to the end of his talking, the Emperar realisd:

"Would such food work on a man?"

"I think so."

"But how could it be made in quantities to krop a man alive? We have no bees in Gobl, and if we had, it would take large numbers of hives to make a used for a man."

"When I studied this outen-islly. I made thereof an analysis, and found of it the various components and their amounts and the formula of the making. I can take the blood of a bull and the fat of goese and the oil of the turtle and the flish of certain fish. and, by a way that I know of, I can make a food in abundance that will do even as the food of the hive. This food I have tried with eccening things and flying things and little mice, and all of them thrive on it and their life appears to be greatly lengthened. This I can make here in Gobi, if I have a place to work and dishes of glass and of gold and all the parts of the formula brought to me. And I will make the food, and this food you shall drink and eat and nothing else. Some of it I will flavor and serve solid, and others will seem like wine, with the performe of the vine and the poorty and in every way your thirst and your hunger shall be satisfied. but this only shall you eat and drink and nothing alse."

"You shall have what you need to work with?" swore the Emperor with a horrible oath, "and I shall out and drink of the food and so shall these Seven Wise Men, and so shall this High Pricat, and so shall you. We ten will est and drink of this food, and we shall see the ending of Mo and the destruction of our enemy, and because of this thing you shall have great honor and shall sit at my right hand, and all the people shall reverence you. I will give you land and places of heauty and things to delight your soul, and you shall be the child of my old age, and the ten of us shall one day gather here in this Sacred place to hear of the ending of Mo. And now, you Seven Wise Mcn, harken unto me, and do as I command, for, even though your bellies are filled with this bee food, yet, can your throats be cut as easily as ever. Give this Physicker all that he demands, satisfy his every desire. aid him in every way. Do this first, and after that, use all your power for the hastening of the destruction of Mo, for life will be tiresome to me, so long as they rule in splendor all over the South Scas and deay me the right to levy taxes and take tribute

Thus, the meeting came to an end, and all of the Saven went and worshiped their special Gods because a way had been found to prolong their Lord's life and thus permit them to live longer with their scens and their wives.

Heracles, the wise young physician from Mo, wa given a place of bis own, with special recents to work in and others for him to live, and all of the weaht and wiscino of Gobb went to aid him in his work. Assigned to hide him were cartain young more, who labored for him an the commanded, but Ar the ending of the third month the first septy of food was range and ready to food this tax, who were appointed to est of it. La every way it was delicate and deficious and duinty in its texts and small and in the plearure that it gave to the tecague and the palate. The Emprore was pleared, and next a donen during grifts to Henselss as a present, and each givis here on her body jumpies that would have served is as King's ransom. Henselsa pat the jevels in a pine that he know of and the givits in his harean and promphy forgor about both, for he was emprod in a market were work.

After that, the Emperee and the Seven Wire Men and the Priest set al their most location, to the set start he issue at all their most location, the set in any way apoint, the Emperee would at sime secans the Physician from attending at most with the others, as he know how has he way working, perparing food for all of them. And yet this absence from the Royal table exacts the Emperor andrass on account of the great lowe that he was holding for the votage abvortion.

CHAPTER III

Counter Plana

MANTIALS, the wealth and manporer of Gold was wreating as it had mere done before. To the North and West lay the Kingmin and the second second second second second minist than and coold measure, was the basedtell hand of Mo. Sixty million mere and women of power freel in that hand, backets which divers and common full. Between the two hands colled first hammore full. Between the two hands colled first hamper turned hange couple to coccupier the other, such grow in greatness and washed and harred of the coller. They knew of Atlantis, the third kinglenew, but that had gave asilter of them coccors, for hus, but that had gave asilter of them coccors, for hus,

Gobi determined to destroy Mo.

Mo brooded over the ending of Gobi

Each used all the skill and energy and determination that it possessed toward the accomplishment of its purpose, and, while each had a partial idea of the plans of the other, they both hughed at the impending danger, became it secured to fantastic.

The plant that Golds was seeing our was simply any registrate in more. It was solding more or less than is been her entry to plants. The lower entry of the other is the strategy of the sold of the entry of the sold of the sold of the sold of the sold entry of the sold of the sold of the sold of the sold entry of the sold of the sold of the sold of the entry of the sold of the sold of the sold of the entry of the sold of the sold of the sold of the entry of the sold of the sold of the sold of the entry of the sold of the sold of the sold of the blank frame that here the sold of the sold of the the blank fram that here the sold of the sold of the blank. More sold for shape, also langles and sold of the blank fram that here the sold of the sol

This was the way that the land of Mo was built

and can this fact the Sevan Wisse Man of Gaob Termon, and the Integent, which is the seven of t

And this powder was not the kind that is made of salipeter, but was of a power that was so great in its might that even the mos of Gobi dreaded it; no greater punishment could be given a criminal than to be sentenced to work in the houses where it was made.

All the dirt from these tunnels had to be entried hack to the mouth of the tunnel in the land of Gold, and there is was piled in long rows, and the mountains thus made are still to be seen in parts of Asia, though few knew how they ame there.

"The finishing of this tunnel and the placing of the powder would take thirty years, but the actual exploding of the powder would be but the time of the taking of a deep intenth, through it would take a day for the fand distant throughout to exploded, such was the great distance to the far parts of the land.

Daly a part of the destruction would be accompland by the powder's exploding. The fammes from thus would light the large exercised of the gases, and these would explode and bhas hales into the very Pits of Bottonical despit, and ritten these sits would coue the fire of Pitki, and what this far would do to the hated had of Mo could hardly be generad at.

⁶ Part of this plas had reached Mo through its ascretic gap system, but it was of animatic, so presenting ympossible in its greatness that little attention was paid to it. Besides, br in hisbitanis haw that it would take ymar fac Göll to dig andt tanab moder their Lund and andt pricht fact rearners of their kingdom, and before that the had come they had would make their works most of that lund have pleasing your about the works of the second second price their second second price the second second second price the second second price that price second second price the second second price that price second second price that price second second price that price second second price that the second second price that price second second price that price second second price that the second second price that the second second price that price second price second price second price that price second price sec

For three were also user may in Mo. Perhaps their wise may were poststated of more wision than the Seven Wise More of Goldy though at the present when, fourteen thousand years have pasted since hold hands died and isse their wisions, it is hard to evaluate mode dilicius matter at the intelligence of a maios. However, what imported nearly colofound the board of Mo, that they world win a viscory over their esemics before those ensuits could seem to and of their tunal.

Now, it is an interesting fact that the men of Gobi knew of the plans of Mo just as the men of

Mo knew of the plans of Gobi. Each had a partial idea of how the enemy was going to attack and each felt that the schemes were impracticable and foolish. For it is no wonder that the Seven Wase Men made a special report to the Emperor of Gohi and in that report told him that Mo would try to destroy them, but that the method was an impossiture. To be brief. Mo intended to have the lows of gravity set aside for a brief period over the entire land of Gobi, with the result that the land, no longer held down by gravity or the weight of the atmosphere, would leap into the air and leave the entire kinedom miles above the ocean in an atmosphere of botter cold, where pleasure would cease pursuit of pleasure or the softer recreations of life. The People of Gobi would have neither time non energy for building tunnels to destroy Mo. If they remained in their former land, they would have to fight the cold; if they left it, they would have to fight the Barbarians. Meantime, the gentlefolk of Mo would continue to live in pleasure and a warm place under the tropical sun.

Thus, each country lived in what proved to be a fool's Paradise.

.'Vet, not all, for the Emparer of Mo had holk in the fut East a special sertest and a place of relique, and there he and his rich men and their wirves went for also metha every yeter, when the tunners run was the warraset in No. Many entaries before, it had been forceedd that when Mo was detawyed, it would be during the puried of intense harzy and new for several Seconds that chocken for work edit themselves against such a tass, even though they laughingly told sech their their two imposition.

The plant of the wise men of Mo were not as fantastic as might be imagined. Even today, in our dense ignorance, there are East Indians who can surpered themselves in the air is absolute defiance. of the laws of gravitation. If a man can do this now in our dark ages, why should not a field or a many things of which we are ignorant? At least what really happened was this. Heracles had not come to Gobi by accident. His capture was simply a part of the plans of the consolitators of Mo. Had come to Gobs anyway. His ability to make the life-prolonging bee jelly was just a happy incident, something happy in its occurrence, but, at the same time, such was the wisdom of this young man that had almost anything else been asked of him, he would have been able to give a satisfactory answer. three miles or more into the sir; his making of the bee food simply made it easier for him to carry out his plans. Now, as the trusted friend of the Emperer, in fact, as the man who was making his royal food he had full access to every part of the King-

Heracles' Plan

IT is easily told what Heracles did. How he ob-tained his results cannot even be guessed at, but there is this to say, that if any wise man of today duplicated his experiment, there would be no similar result; so, it must be true that this man of Mo knew something that the scientists of today do not know. All that Herneles did was to set aside a ment, and in that room no one rame but himself In that more he built, with his own hands, a table on four less, and the top of the table was near the under pressure, the table alowly rose into the air till it came near the ceiling of the high room. On the top of this table, Heracles built, out of sand and storic and little painted pieces of word, a replica. or relief man of the Rmoire of Gohi. When the time came, he intended to raise the table, and even as the table rose in the air, so would the entire

The plan was perfect, and, yet, at the very end a little thing destroyed the perfect consummation of it, and allowed matters to end as they did.

To asket this room, to accerdly build the table and the table and the popuration for composing the and the table and the popuration for composing the far Gala case to go of the table, took time. Reveal is the moment of grantest faceded accentry. Harnelse could not relax, the castless not moment. There also, and the second second second second algebra and, at times a year passed without fail bonoom under has far boyon in portions to the face secere of table. They of inspections to the face secere of table Galabaar and the term of the table of the table of the second second second second second port instantic of any portion in scorepoints of the in-

Mutantine, the years passed. The special food, the nonzimizer of Queex-best, the only matriment of the Emperor and the Wise Mea, was working azimably in every way. The Emperor was not only reinking his original aps, but he scenad to be growing younger. It was runneed that the High-Prisal, who had been nearly ainty at the beginning of the experiment, had beened working the the second state of the second state of the second of the experiment, had beened working the second of the experiment had beened working the second and the second state of the second state of the food. Thirty years had beened

These years had not been the. Thousands of new worked to determ / So, while our man paintingly worked to determ / Sol. Meastime, the Brayers et al. The second second second second second tritters, he would all east 1% he reme to the mouth of a large etrar, the our data is not elikely the which place the royal deplanets would earry him and has cased to intern, carried on the shoulders of slows. The shanged to intern, carried on the shoulders of slows. of red sandstone through a tunnel, illumined by the torchest of marble slaves who patiently stood in almost endless rows. The light from their torches never varied, and was cold. Since these, the sorted of a cold light has never been rediscovered.

At the end of the twenty-seven miles, three comes an end to the twenty-seven miles, three comes means the seven seven and the seven seven seven the seven seven seven seven seven seven seven the abbility out their servents. But in that in the shared seven seven seven seven seven seven immired years each Emprore has but in that in the facts it resources and left them there. Such was the prophece in which the greats must obly would left of the prophecy to come thrug from these, every disregord back the based over them.

CHAPTER IV Heracles is Ready

Y EARLY, and hull yearly, Heraolas sent mesrages to the King's Conscions at the capital of No, reporting his progress and warning of the dangers that threatened the country, but concerning most of these warning, little statetion was given, while the ortainary of the destruction of Gebb was fully believed and occasiond much joy.

Finally, at a meeting of the Wise Men of Gobi and the Express, the time for the finishing of the tummined, and it was announced that in one years trainined, and it was announced that in one years. Hereades with boundless determination to finish his work and thats, powers the destructions of Mo, by first hoisting Gobi into an eteraty of cold and now. Of the work that he was doing, little renalised unfihilable. One or two more nights would would be destructed.

But not at once.

Heracles was not content with simple destination. The years of tasky, the scriftle of a lifthine smoong strangers had filled him with the determination for a degree and more stratific wargence that its had pointed this vergenesse, for all these years here had retuined and planed and expression and the schedule strategies and the people, and, and atter years, whereas it the problem of the parts of the mass cotract of the Green Strategies and the mass whereas it the problem of the parts of the mass of the Green of the wake likers.

During these thirty years he had fed the Emperer and his Seven Woos Mext and the High Pricet. He had fed them and given them drinks and nothing passed their high save what he prepared for them. Years of wonderful health, boundless vitably and algoridd vigge gave these tent the greatest easildance in the longety and integrity of the man who hands, mercareable for them a friture that was so diflands. ferent from what they had expected that not even their wildest dreams could anticipate it.

And in preparation for this facts he had a longsecret coverse with his frind, the Engeven, and waread birst of the danger of the argubation thus a secret coverse with the stranger of the arguman and the secret secret secret secret secret secret covers the secret secret bir solid of the Dangers with helds and food and all unceasing birstring, and refirs to full where the trouble would and. Would it must be best to prepare the Hall of the Dangers with helds and food and all unceasing birstring, and refirs hand for all how the high of the Dangers with heads and held has been been been been been small for all how the jury of premandly presiding the golders burnes and, than, all by bland, have here Pris in the list of the one facts of the content of the Pris into the incore of the content of Mol

The Response was oblighted with the plan. Buy approximately and the second second second second second in the field of the Dregon, semislaring of forms in the field of the Dregon, semislaring of the setemation of the second second second second second second that for all that second he and the second second

Now all was to the liking of Heracka. A month of drankenness, during which he would work his faul plass. Then, on the day before the pressing of the button, Gobi would move alowly into the aliv-and what cared Heracks how long the Emperor of Gobi stad has advisers lived, so long as they lived the life that he prepared for them?

These, as the beginning of the dehunch, Herache Congred the food. It tratest and hold the fragments of the former food and wine, and it still constained large anomato of the Beo-jelly, but, in additions, there was optim added to hall their senses and silvy their suppices, and hysoithe to mather their dresses more pleasant, and, fassily, a scoret compound, smole from the internal global of start shall their senses (collected carefully during all these years from the bodies of shaves one criminals condemned to destin.

And this medicine, given in proper doses, melhed the boses of those who took it, so that finally they became bosedess bags of skin, within which bags they lived and thought but enall not move, simply lying where they were placed till someone placed them in a different single.

Men in their normal minds would know of the charges taking place in their boars; men, wilking or taking exercise, would have fractures and strange changes in their shape, due to the gradmal weakering and bending of their long boars. But mon who Ity in a long drunk for a month, dull with option and pieasured with drag drams, would graduilly worken and become helpless without knowing what was happening to them.

This was the final reverge of Heracks, to turn these main into bondrish intervation, men without adultors, joby fishes of humanity, heighten in their spaining terres—and thuy would five an forcery. But the Queue loss. In their system was food, conlised the Queue loss. In their system was food, contant dy Queue loss. In their system was food, and powerful to keep them thifte a theimend year.

And Heracles, in his joy, visioned these helpless men in the Hall of the Dragons, hurled thousands of feet into the air. He saw them, living in a palace, cold and cheerless, with the damp of doom at noonday turned into a freezing, living death of cold, as soon as the weakened sun dropped behind the Western monstains. There they would live perhons ing mountaincers, perhaps neglected and forgotten, but, no matter what happened, they would never dit. That was the beauty of it-the fact that they would keep on living. He was going to send them up, up, up in the air, so high that there would be no wolves to tear their boneless bodies and so cold that no files would larvate in their helpites nostrils. Perhaps for a year or so he would visit them and talk over matters with them, or he might even induce the Emperor of Mo to come on an excursion and see for himself the fate that had come to those who plotted the destruction of Mo.

A Little Accident

SO, to the Bac-food such the optim and the typestime was studied the pints of the sucrear lagrancia ment began, and the Barystee of Gold was happy in the 1 in hal such as was physical and such a large life these of this, and such a fine ending to the first halo and the sucrear lagrance of the sucrear life the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance of the sucrear lagrance lagrance of the sucrear lagrance o

Access the Hall of the Dragon, Versite had big start of here. The could be determined and the second start of here and the could be determined and the mand then of all who cause into the hall be the most of the mostly, more should have in the 10 the gooden here are approximation of the second start of the should be determined by an out more that the most method, and when the data of the second start would be from the discuss, non-start with a semificivation in the data of the second start of the second method. Second start of the second start of the here the discuss of the second start of the second second start over the second start of the second start data of the second start of the second start of the here the second start of the s magoris thinking that the growing incapacity of the Emperor and the other great men was simply the reaction, born of surfeit and drunkenness.

Then, on the twenty-eighth day, when Diracles knew that all of his plans were ready, he leasened the doa's of the optim and thus allowed the drugged ment to come to their senses, and, preparing food and wise in absordance, he left the Hall of the Drugoos, and, cautioning the guards to let no one in or own, he reitred to his palace, there to finish the desiruction of the hated county.

When he had shift and hered and deabledged the news it his Catche, wherein nood the table with traditions for the Catche, wherein nood the table with traditions for the database. The task was fill of the table of the table of the table of the table instead, wave that table of the table with the instead wave table of the obtained by boiling the bolies of daves. On the table part of the table of the table of the table part of the table of the table of the table part of table of the table of table of the table part of table of table of table of table of the parameter of which would cause the map there part had be table.

The secret of such scientific magic is now lost to musicind, but it can be guessed that Haracles possessed a knowledge of fluid pressures that has never been matched.

This much we know, that the pressure of the uir in each of these little tabes, was, by his devices multiplied billion fold by a force under the surface of Gobi aided by powerful volcanic games, so that when the table was lifted, the force of the game under Gobi, proportionately great, lifted the country.

Heracles left all in readiness when he left. Now he came back,

He turned on the screw, and there was a hiss of air. Nothing happened.

For a very little and unexpected and unbrard of something, even, had taken pikes driving the torenyeight days that the chamber had been transitions. A little hunger mouse had vandered into the room, and for some reason had taken a fancy to the tasts of the fiber table, through which the airs pasted, and damag many hours that mouse had easten of the tube in many places, little heids, hardly the same, but large enough to prevent the tube from holding the airs.

Terrates for all the wielden had not been able to force this mouse. Now, with hist two days at his command, the setting also was trained unless the force of the setting also was trained unless the ends a two case. There was nothing does to do except to work, and this had did, declandy, systemtically, settinearly, regarding had such holes. But, and not fully workly of tracts, and, family, when had for persuare of air was travel studies to it, in still halded to that it was not collisiont to mine the ballow the tractment of the setting of the setting of the setting the track with compressed in and then in the

did the only thing that he could do. He took part of the map off the table to lighten the load. Thus, all of the map, repeateding what is now Southern China and Burmah and the lower part of fodia, was taken off the table, and shared no part in the entaciyan that beful the rest of Gobi.

Then, finally, all was ready, yet, in this doisy many valuable hours had been wasted, and Herzeles stood there, swaying from futgue and nerrous tire and worry, and isenanth his hand lay the acrew that, turning, would destroy Gobi.

Yet, he waited.

And suddenly he heard a doll roar and then another and another, bloc a distant thunder storm, and he sickened, for he knew that he had waited too long.

There being nothing to do, be turned the strew and sent the full force of air into the legs of the table. It worked, and up went the maps of Gobb into the air; but one leg was weaker than the rest; so, the table russ unnevenly, and there was some siding and silbering of the earth forming the map-

Heracias sitt himself moving, slovity, as the paldes he was in we nt up, because all of the land under it was in upward motion. It was a slow movement and hard to realize in hith part of Goôd, for all of the land for thousands of equite miles was going squard in perfect harmony. There was no way, save by the gradual increase in the coldness of the sit.

The Boneless Horrors

HERACLES knew that his experiment had been

Yes, from far away, there came the rolling thunder, and with a aickening sense of failure he knew that he had been a little late and that already Mo was sinking muler the tormented waves of the Great Ocean.

Sighing, he put on heavy furs that he had prepared against this hour, and walked slowly through the deserted streets of the event city. Here and there a small house had fallen, but all of the royal palaces remained as they had been. For the most part the people, accustomed to a semi-tropical climate, were seeking warmth in their bouses. Thus, the streets were deserted. On, the great Physician went, to the Royal Palace and on, to the Hall of the Dragona. There he found the guard on duty, but almost numb from the cold. With pity in his heart, he hade them seek warmth if they could find it. Then he went into the inner Hall of the Dragone, where he knew that, helplass, by the Emperor of Gobi and his Seven Wise Men and his High Priest, and perhaps with them would be a few of the Opeens, but of this he was in doubt

While Hersches had been working in almost a fremy to repair the air tube, the Emproce and his solviers had slowly regained their normal senses. Almost dazed, it was hard for them to realize what had happened to them, but of one thing they knew and that was the uncleas strain of their bodies, for a strange sense of hipksanesa overcome them, and all efforts to move but resulted in a pecaliar writhing and a sad changing in their shape, with no progression.

The Empercer was no food. While make no information was not really imported to him, by bad no difficulty in descripting who was at the between of works at the discripting of a market house in his body! I food support and now that he was ho ing supported on cashing, high by his furnitum stiff, and the information of the start has been and one of the subscription of the start he was ho in his start has been as a start of the start has had hear also had be litted up a little. She add had hear also had been been also had been at the start of the subscription of the start had hear in works in the subscription of the start had hear in works in the subscription of the start had hear in works had been also had been as the subscription of the start of the subscription of the start had hear in works had been also had been also had been also in the subscription of the subscription of the subscription of works had hear to have the hear in the subscription of the start of the subscription of the subscription of the subscription of works had hear to have the hear to have the hear in the subscription of the subscription of

The vectorial wipped the present from his from, and be looked arround him, and there so its divants he saw the mean who had been his comparison, and they have the mean who had been his comparison, and of this musage, and on the faces of all of them was a Hoal of disputi, for that something had came over them, and they have made it had, and were them and have have and of the something odds, and realised that they could not dis.

And, one by one, the women took the gold and the silver and the precises genus and field from the accurated place, and only one remained. She hald the head of the Emperor and tried to ease hum of his pain, for she was his favorite wils and was going to hear blim a zoo-

The Emperor tried to concenter what it was all about and how he had corns to this depth of trouble and then he recalled his hitter hatt and know that Mo still remained undertryped, and he heathed harship, and his weman knew that he derived to take so she put her pith shells mar his mosth, and with a grant effort he toid her to press the gekles horten. This thing she did.

Thus, Mo was destroyed by the dalaty fingers of a give woman, who had no name and was simply there and shifting to the Emproce, while all others left him, because she loved him and was to bear him a son.

And in the room it grow colder, and the woman guidered the rugs and the tilten sheets, and she wrapped each july finh of a sman up as warmly as the could, but the warmest things also gut around the Emperor. There the nice lay, boostless and urable to dit, and the breath from their nontrils concerled file ersem in the fronty als.

Thus, Herneles found them-

He six down by the Emperor and old the story of what he had down and how he had plasmed their his exemits about live on five centants. Held with the beaugiffs of the ben-jelly and theorient, because of the gland-plane that he had given. The Emperor hand had he was seembles and motionless, you in his even was a kold of hattod that only a grant and are all weight and had in the as a deep content, for he know from the celling thunder that Mo was howen destructed. Meantime it grew colors

The woman, shivering, feared for her unborn

son. . . . A Changed World

MO was being klown to pieces. The damage doesn't yn ferwarroad at enne of perfort wei wy ar anne garet of the hum, does to that dit houd in a allike fragments, od all ever Mowdowson haret inns arliber fragments, od all ever Mowdowson haret inns arliber fragments-fragment are finals, are knowed i Reguestin-Frances on one fames. A continent was destroyed, lowing tarks the disk of the anal Reguestin-Frances on one to the seek was beend, ard; chorthas, a fi hume fragments have beend, ard; chorthas, a fi hume on the meanth path, hurdi ayners, as in du at even they tarking hours for the seek was and even they tarking hours for the seek was determined by the seek was been and the seek was been and the seek was beend, and the seek was and even they tarking hours was basedwork for.

The Emperer of Mo, with his favorite wives and nohic, was fearing in their small city of refage. The shock of the acticlyma reached them even in that far away rock-bound enclosure. They featted e.e., such max and woman perturbility to his neighhors at the banquet table that the sound was thunder.

The hangue: passed on through the night, and the next day a breathlass measure, rarived with news that could only be given to the Eugency, and different server the start of the start of the large commanded a certain wine to be reveal and enferred in all services much able the druck to their bulkword hand of Ma, and all of the great meaand their levely, seems drauk of this wine and these are dones and clied, and their services for lar here or applies with the done they done they done they done the start of the done of the done they done they done the done of the done of the services for lar here or spins with the done of the done they done they.

Fourteen thousand years later three prospectors, typical desert rats of Arisona, promocted for gold near the Colorado River. One day, while working in a twenty-nice foot shaft, one of them drove his pick through the roof of what seemed to be an abandoned mine-shaft. It was paved with square, beveled stones, instened together with cement Three stones had the appearance of great age. Descending into this shoft with torches, they followed it for twenty-cight miles and came to a buried city. There they found many old buildings, one of which was a circular chamber. In it was a large table of maride around which sat the dead, dried bedies of seventy-two persons, all over six feet tall, with blue eves, and white skin, and the firsh was white and firm, being preserved in some wonderful manner. most of the clothing had fallen into dust. In another large room were the dead bodies of over two hundred women who looked as though they were levely in their day, and this place the desert rate thought might have been a haven. Throughout the eity there were negaliar tran doors and all kinds of

(Continued on page 180)



The trails and bottom well of the make closed hellowity. The bottom seemed to drop from the tunnel leaving a longe brickely lighted space. The train remained, meaningly peeled in mini-siz.

CHAPTER I

A Strange Disappearance

"W Plat as be unfolded his morning paper and read the screaming headlines that topped the first page.

He stared across the breakfast table at his wife, who was pouring his coffee. "Have you seen this, Mary?" he asked,

"No, dear," also replied, "I haven't looked at the paper. What is it?"

"Just listen to this," he said. "Either it is the greatest heav ever attempted or it is the most mysterious heavening that has ever been reported."

The bradilines and the sensational news item that so astonished Ward Platt on that memorable morning in the Spring of 1935 sourcied the entire civilized world and were forerunters of a sarriss of assuing events in which Platt Inter became deeply involved. His wife listened in open-menthed attontioners as ite read the mybellereide neuro-

WEST SIDE SUBWAY EXPRESS TRAIN VANISHES

TEN CAR TRAIN LOST IN EAST RIVER TUNNEL

MORE THAN 500 PASSENGERS WERE ON BOARD

"At 12:35 A. M., it is reported, an Interborough express train, bound for Van Cortlandt Park, left Clark Street station, Brooklyn, and has not been seen since. The train did not appear at Chambers Street when due and, when the train scheduled to follow it pulled into that station, an investigation was started by officials of the Transit Company. Late riders, who waited in Wall Street station of the west side line for an unduly long period, report that the train did not pass through, so it is clearly evident that the missing train disappeared in the tube which masses under the East River between Clark and Wall Street stations. All cars and trains have been checked in and out of the various terminals and despatching stations, but the ten cars that comprised the strangely missing train can not

"Just before going to press, this newspaper learned that a complete survey of the tunned has been made and that there is no trace of the vanished train, nor are there are indicates of the possible

manner in which it disappeared. The tracks are latted throughout the length of the tumned, as are the walks of the tube. It is estimated by officials of the Interborough Rapid Transit Company that no less than five hendred riders occupied the train and this is considered to be a very concervative es-



timate. The police are completely mystified."

At this point Word up from Platt looked up from his reading and gause dishchevingly into the prazied eyes of his methods, and the prazied eyes of his with. "Why Mary," he ejeculated, "this is failenious. The thing isn't possible. How and a train of the bestwoord a train of the bestwo and a train of the bestwoord maked a train of the bestwoord a train of the bestwoord maked maked a train of the bestwoord maked maked a train of the bestwoord maked a train of the bestwo

solidly jointd and concrete-fined table of heavy cost from that is buried deep in the rand and reak bottom of the wire? The table is of the same also throughous-hitces are built too lines of randy, no addings nor spons—not a receip in which a sum could table, the alone so massive a thing as a complete train of cars loaded with passengers. It must be a boox."

"It is scarcely credible," said his wife, "little as I know about such things, it does not seem reasonsake to m. But the Tweer is a very conservative paper and it hardly nears likely they would publish such a abory unless it had a pretty strong formdation of fact."

The newspaper article continued with a rambling, reportorial fantasy proposed in highly imaginative and impossible solutions of the unprecedented happening. Suddenly Mary Platt thought of the radius and also samped the switch. The agitated voice of a news announce filled the room immediately.

"More than two involved persons have' setephoned the police and reported hord ones mising," speks the voice of the announce, "The offices of the Trantil Company are besigned by other hundreds who are looking for news of relatives and friends who were known to have how here returning from irrodyng to their hornes in Monhattae or the to have disposed. The subvey statistics are packed with caricos people and construction in wident among those titles who find in necessary

O UR well-knows author may always be relied upon to do the usuesail. The persons many the carling one of the most entroprefixing polence factions stories that we have read in a long time.

end content. It is just already full of jourth dimension, as well as a terms every. Incidentally, the story intege sets assumption observative and hair-valing treads the story of blacks with fairly take plus effort you have calculated assume machineling, you will key it seids with the second reservation. In proceed 48, new more all wave leftmer. to board trains that what travers the unnel. Many are refusing to make the trip and are erowding the bridges, some unlag the surface cars but thousands crossing on foot The police are finding considerable difficulty in Hunking the bridge traffic to a safe volume.

"Each train that en-

ters the tube is manned by twenty police officers. two to a car. The passengers are few and these are mostly people who consider the entire thing as a icke. But it is now clear that it is no joke but a terrible reality. Every effort of the Interborough detectives has failed of locating the missing train. whose car numbers are on record and definitely known to be missing. A number of persons who have been questioned by the police report waits at various points along the west side subway line to free appointments with friends or relatives who must have taken a train at about the time acheduled for the mission one. All evidence points to the truth of the report and it appears that New York City must face a diseaser that is of considerable momitude and is, so far, absolutely uncontainable."

"Experies are now engaged in a minute examination of the tracks and of the tunnel itself to determine whither there are any taxes whatoever of the minaing train and its occupants. No logistal asution of the mystery has been advanced, though augerstitious folk are hinting of gluosity visitations and all area of meromeners and withfurth."

"It seems that there is something in it," said Mary Platt with a worried look at her husband, "are you going down town?"

"Indeed I am," he responded, "Til be called in on this thing, you know."

"You're not going to take the subway, are you?" This in an extremely anxieur volce from the petty woman who fixed the great engineer across the table of the coay breakfast nook in their Riverside Drive assertment.

"Of course I am, dear," laughed her husband, "but only as far as Timts Square. I'm going directly to the office."

"Please don't cross to Brooklyn," entreated his wife, "at least until more has been learned of this terrible thing."

"Don't worry now, dear," he said, arising from the table and preparing to leave, "I may have to get into the affair in detail but I shall take every precaution."

But it was an extremely anxious little woman who waved to him a few minutes later as he swong down the Drive toward Sweety-second Street where the issue he would board a down-town copress.

A Job For Magicians

WARD FLAT dis none kary thinking as by more the likes, at Service-scolar ad Brasslewy. The firm of Fatt and Fraces, of which was saving practice, had was an only only and any strain of the service of the service of the Registerer is the county and Worl Fatt limits was resulted as the most this was in his lise. Therein had practice that we have a service the service of the service of the service of the years that practice had been in counts if some strains and service has been in counts if some strains and services had been in counts if some of the service had been in counts if some of the water in the service had been in counts if some of the service had been in counts if some of the service had been in counts if some of the service south and the service had been in counts if some of the service had been in counts if some of the service south and the service had been in counts if some of the service had been in counts if some of the service south and the service had been in the service had been in the service had been in the service of the service had been in the servic

compiled to establish a special department to hunde manicage uvery, of which a considerable amount was obtained from the Department of Public Works. The services of the concern were likewise in great denared by the Transit Consultation and it was for this recoge that Pipt left to earnin he would be called in on this weird problem which had no addeduy onground the great metropolitas district.

The thread his way through a milling, prediction thread control of the solvey at threads and made has a way through the narrantile and down the third roward by division is position at the terrage happending division is position at the terrage happending division is another the web wells in almost eventions and the main and the terrage happending division another the web wells in almost events in a strain and the solution of the terrage or lange thereing a new when his fact his board as a rain, though its woold addurity have been comtoured the relations provides with the terrage the row of the relative relations.

When he reached his editors in the new Portysecond Street Building he found his force gathered in exclude groups with a great proportion of their number not yet arrived. His partner, Charles Fraze, hustled him into a conference room where and Mayor Hamilin and two members of the Transit Cormission.

"Good morning, gentlemen," said Ward Platt, removing his hat and top-cost, "I presume you are here so carly on account of the reported loss of a subway trans."

"Yes, Ward," said the mayor, "and something's not to be done about it."

Ward laughtd. "That's a pretty big order," he said, "if there's saything in these reports."

"They're absolutely true," stated the mayor, "three persons have informed the police that they accompanied friends to the very truln and watched is pull out of Clark Stress station. The friends have never been heard from since, nor have any of more than three hundred other possible passengers on whem information has been obtained."

"Well, it is certainly a most mysterious occurrence," said Ward, "but what can you want us to do?"

"I know it is a little out of your line-more like sternike detects work? said it mayor, "but 1 dea's know anyone more capable of getting to the bottom of the mutter than you and Chastle. It is a cinch that this trainioted of prople did not evaporany mort is just one certain fast it. Hose disappared as mittery as it disadered into the safe by seven trick logical explorations and that it was been trick proper enter is made. We want you to undertake the task."

Ward Platt looked at his partner. "Well, what do you think of it, Charile?" he asked.

"I haven't the least idea what to look for," replied young Prazee, "but we can try it."

"All right," said Ward, "we'll try."

The mayor grasped his hand. "Thanks, Ward,"

be said, "If feel better already with you on the job. There's the devil to pay about this, you know, and it's going to be worse when the casually lists are complete. The Police Commissioner will be instructed to fermish all assistance you may require from his non, and the Gity Engineers will sepapt saything in the why of magnetic lyone med."

"It seems to me," said Charles France, "that we abould have an Arthur Conan Doyle or a Houdini on this job rather than engineers and scientists and policemen. But we'll tackle it."

When the support party had gone, Weed faced the perture with actions expression on his unady cheering late. "Chartle," he sold solemmly, "this is the toughest job we ever tackied. And I can't for the life of me see how we are going to get asywhere. A cortexi inportion has been mode of the tenned without results and we are not magiciano, you know."

"lifes a tough one, all right," agreed the younger man, "but darn it all, Ward, it's got to be solvable. That train was taken from the tracks and spirited away under the river by some outside agreesy and it must have been by physical means."

"But who'in the world would want to do such a thing, even if it were feasible?" queried the senior partner, "granting that it was done by some as yet unexplained human agency, what could be the possible motive?"

"It's beyond me, Ward, but it was done somehow and it's up to us to learn how. Have you anything in mind?"

"Nothing definite. But I think we should first make a trip through the tube and see if we can get any ideas. That is the first step, to my way of tunking, and we don't want say police officers or detectives along either."

"Right," agreed Charlie, "let's go."

CHAPTER II

More Happenings

A Tanober point, not far from New York, the precision night had brought armsge hopponsell lay savelse in his bad, listening to the drazy parter of the rain on the tin potch root outside his open wardow. It has been listening to the account of always as, after counting alumber for a number of hours without societas, he arove and, detailing bitlines without societas, he arove and, detailing bitlines undo not noned naide the book he had started to read.

Texp, as be was called by his intimate friends, has been working too band for many weeks and it was beginning to tail on him. His akerplasmess this math was tothing new. For the past weeks or thore by had swaredy skept a night through and finally, find, desperation, he toole the advice of his dear first, Doctor Vance, and field to the country for a week of wet.

So here he was, in a gloomy old house on the outskirts of Carteraville, two hours by aphysical fast train from his office in Wall Street. And now, the very first apply, bis incoming: researcted itself. Inpatiently be stepped to the window and observed that the rain window more mixed printle. He decided to dress and venture outside. Anything was better than sitting until daylight in this high-trilinged, old-fashioned room, with its flowered wall unter and subta air of the "mane bed-mone".

With bot pulled down to his cars and with rubber cost over his array, he typ-sed down the stales to the front down. Quiedly, as a net to awaken the household, he drew the bolts and texped out into the dank night air. The rain had now caused entirely, but he shivered with he child at the miss which houg ison over the lawn, almost obscuring from view the lone street lamp on the corner.

He was unfamiliar with his surroundings, but proceeded up the activit in a lowinery manners as he drow on bit costs and battoned the collar tightly about his suck. A block sway, he remembered frem observtions made on his arrival the proceeding evening, this asterict crossed a broad, concretel bigboury which was evidently quite new. He none reached this and, turning to the right at the comer, attend to fue open county without thought as to how long he midut analous twike norther wards.

His mind was even on his growing basiness in the city and, even now, he was thinking over the reorganization plans he had its uncompleted when good old "Dee" Vance instited him out to Cartersville.

"Like most of you moletra business near," the docts the stail, "you are tilling yourself in your mad rule to make smooty. You must let up, They first thing the work of the start of the start grant of the start of the start of the start pictor in Connections for a runs. The old folls will be pool end or you sand it will conse up myself for a work-red while you are there. It will do you will not grade the start here as the will be start of the start of the start here as the start of the start of

Tony argued and procrastitated but finally, with very poor grace, gave in to his friend's urpings,

But he found it difficute even now to rid his mind of business problems. It was not until he heard the sound of a rupidly approaching automobile that his thoughts term of into other channels. The readhistod was mudically illimiting by the bright headlights of a spacing car and he schepel to the add of the road. As he loaded back he was monuctumbled into the dink as a power-off number allow past with a rear that gooke of speed limits broken, twice over.

"Whew!" he excluimed, as he acrambled back to the alignery concrete, "that follow's in a hurry. Wonder where he's rushing to at this hour of the morning."

The mist had been almost dispersed by a freshly sprung-up breeze and he watched the beam of light that marked the car as it disonseared ranidly in the distance.

About two miles further on he stumbled into the spare tire carrier of an automobile parked at the side of the road. The head and tail lights had been extinguished, but he noted by the dim radiance of a amall parking light that the car was a roadster of foreign make and of rakish lines that suggested power and speed.

"Must be the car that passed me," he mattered. And when he touched the radiator and found it very hot he felt certain that this was the case.

While he pondered over the probable reasons for anch a late and hurried visit to an apparently deseried spot, he became aware of voices a little distance off the road. They were raised in anger and his curiosity was at once aroused. But the darkness was intense and he could make out nothing in the direction from which they came.

"I tell you Bob, this is the end!" spoke one of the voices, showing in anger.

With that, a source of light appeared about fifty foet from the road. This revealed itself as the lighted window of a second-story room. Tony of the room, one a tall man fully dreated, the other a short, heavy-net man in pyjamas who had evidently just been awakened by his late caller. The postly one walked to the window and closed it, with the abvieus intention of shutting the sound of their voices from the outside world. He seemed to be highly agitated and shook his fist in his caller's face before drawing the shade.

A light showed in the adjoining window and the same stout figure approached this one. His calles had not followed, as far as Tony could see, but the man in priaman reached up to close this window an he had the first. With arms above his head, he seemed to grap for air and then double up as if in pala. His hands came down without having souched the window and clutched wildly at his breast. His broad figure wilted and collapsed without a round.

Tony hesitated, not knowing what to do, and in that instant the heavily-coated stranger stepped into the field of vision and bent over the body which had now slumped out of view below the window sill. For a moment the tall man remained in this position, then he stood creet and completed the tack started by the other. He closed the window and hastily drow the slade.

Vanished!

FEELING certain that something out of the ordinary, probably a tragedy, had occurred, Tony felt his way along the hedge that enclosed the grounds until he found an opening, through which he made his way and reached a gravel walk. There was not a sound from the bosse, which he could harely make out as a large, forbidding structure of Colonial design. With his heart in his throat he moved an noiselessly as possible, still feeling his way along the hedge, which also bordered the walk

His feet eventually encountered the steps of the porch and he tip-toed up, expecting to hear a creak at every move.

When he was half way to the door, the porch was suddenly flooded with light from within and, simultaneously with its appearance, there was a abrill femining shrick. The door opened precipitately and the tall stranger rushed out, knocking Tony off balance in his dash for the read.

On the floor boards of the porch, still slippery from the rain, Tony lost his footing and fell heavily. By the time he picked himself up he heard the roar of a starting motor and the high-powered roadster was literally jerked into motion and away. Before he could even collect his scattered wits the lights had vanished around a bend in the road

He turned to the still open door and was astonished to see a crumpled figure at the fost of a winding stair that led upward from the spacious foyer within. Seeing that this was a woman in a dressing yown, he heatily stepped in. The figure lay in a heap, face down, a mass of tumbled golden hair spread over the head and shoulders like a glistening mantle. Carefully be turned the limp kody over and saw that it was that of a beautiful girl, hardly out of her teens. A sigh from her told him this was only a faint and he experienced an immediate feeling of relief.

The girl opened her eyes and gazed at him, horror-stricken. Then also sat up auddenly and blicked as if to clear her vision.

"Who-who are you?" she saked fearfully,

"I am Anthony Russell," replied Tony hastily, "don't be alarmed. I was passing and saw strange happenings in the house, so I came in. Can I belt

He assisted the girl to her feet and she leaned against him a moment for support, then hurst into wild sobbing.

"Oh, oh !" she walled, "noor father! He's been killed. And Bob was here-they'll get him! What shall I do?"

"Who is Bob? 'And did he kill him?" asked Tony engliedly.

"No! No!" anywered the girl hysterically, "I know nothing. I was asleep. The voices swoke me and I came to the head of the stairs. I saw-I SAW-

She bit her lip and the great brown ever widened in horror. Garing pleadingly at Tony, she pulled her dressing gown tightly about her alim body and started slowly up the stairs.

"But can't I do anything, Miss?" he saked, in agi tation, "surely you're not alone in this house with your father's body, and with a murderer escaping at the moment? There may be accomplices about

She turned toward him and again started sobbing. Leaning on the stair rail to steady beroelf, she said. "Yes, you can belo, And plesse excuse my rudeness. But it is all so horrible I can't thinkcan't reason yet."

"Where are the servants?" he asked.

"There are but two and this is their night off.

But please don't ask me any more questions now."

Something altered the girl's expression. A look of horror and fear anddenly hardened into atern resolve as she tothered and seemed about to faint outce more.

Tony assisted her to a settee in the second floor hall.

"Now, you stay right here," he said in a tose of authority, "and 1'll go in and soc if something can be done for your father. He may not be dead after all."

"Oh no," she said hopelessly, "he's dead. I'm sare he is. But you can satisfy yourself if you wish. Through that door on the right."

Advanced is not the room where in the body, trong let the child of each is the size. It is the hereit to row let the child of each is the size of the size of the body of the body of the size of the size of the size of the interval the size of the

But he was deal-three was no doubt of that. Tony convicuon limited to this at mose and them prang to his first in modes recollerion. There had here no assumed as short. It for distingly recalled his surprise at string the figure collegate so uncapatedly. And here was a body without a wound. It had flathed across his mind at the time that thus must be a streke of some kind brought about by the una's evident anger. How then had this may here killed?

And it was arranger still that the victim should be old Vin Altyren. Tory neogenised him as acceas the cold-blooded fanatcie who bad, within the past work, increads this altedy transmission studies to the papers were all residues that all distribuing of policial intrigue, of the illengiby of same of his operations, of wideow robbed of them samigns to awalf the own coffers. Quite probably the theory house the order.

At the sound of the girl's voice from the doorway Tony turned abruptly from his contemplation of the body. So this was Margarett Van Alstyne, debutante dauchter of the great man.

"He's dead?" she asked in a whisper.

"Yos, I'm sfraid he in. But it may be that he died a natural death. He has no wounds. We must call the police."

"No! not that?" the girl almost skricked, "call Dottor Joyce. But not the pulice-yet. Please say you won't."

Tony looked his amazement. Her agitation was undoubtodly extreme. Surely this sweet girl had not murdered her own father, he thought. Surely this Bob she had spoken of was not her lover and had killed the old man in the argument he had witnessed. But he put these throughts from his mind at once. They were too about to be considered.

"All right, Miss," he agreed, "we'll call the doctor."

Her eyas wikened in terror as he spoke. Her fice blanche and the steriation forth a shuking facelinger that pointed parts him toward the body. When a second much collect diverged the crupty alsouped to the floor in souther second. Tory having the terror is the position of the floor in the corpus in the position of the floor. It was not set to corpus in the position of the floor in the in cerecity behavior—constru-

"Well, Tim damned!" he exclaimed in amorement. Then he turned once more to the girl to start the work of restoring her. No wonder the had thinted!

CHAPTER III

Comparing Notes

A S Ward Platt and Charlie Frazee discussed the problem which had been turned over to cheme by the mayor there was a ring at the telephone in the conference room they occupied. Ward assured the ring and then passed the telephone instrument to his partner.

"Long distance for you, Charlie," he said,

"Hetto! Yes, this is Mr. Frazee speaking," Chashic repeated mechanically into the transmitter, "ob-bello, Tony. Glad to hear from you. What's thu? Van Alstyne's deal? His body vanithed?"

Wend Plats as forward, starticl into close attentions as his potent listened closely to the work spokes as rapidly at the other and of the wire. An occasional interruption by his potentiary are been inity good inking of the drift of the conversation and his mind instantly associated in new development with the strange hospitaling in the solvey. When Charlie consulty lung up the rectiver he turned to his partner with assarsment written all over his futures.

"That was Tooy Resulf, the sold, "the's op in Centreville at 40 Was Adayoth country boose. Hoppstor to be pushing by and saw the old mass the fact has which and the solution of the solution and the solution of the solution of the solution of solution of the mushing that Tooy could find to evidence that he had been smoothered. No built or killed the body vasiable for hefere their years. The gifty goos, too, now and Tooy's carefy lagdrone. Horizon yield the hefere their years of the piches pick of the solution of the disruption here, as you conclust, they have the disruption here, as you conclust, the disruption here they way." "Yes. And I can't help tying the two events tosettier somehow."

"Me too. These sure are queer doings."

Four hours later the two 'ranjuscers' returned to their office, more completing ways while that never. They had examined every host of the tunnel from which the train had vanable and were unable to find the sightest evidence upon which a theory could be based. It was an impose that stranged filture and left them at their wide' cells. A forling of relefic case to the two more work in high vertures there at least was a new angle to the mystary nonethine fact to discuss and possite over.

Tony and Charlie groeted each other effusively. They were fratemity brothers and had been clotely associated during their college years.

Ward Platt took an instant illing to the young man who was the friend of his partner. "What is your basiness, Mr. Russell?" he saked, after the formality of the introduction was over.

"Tony's an inventor," laughted Charlie, before his friend could reply, 'but core of those rare spectrames with a head for business along with the genius. He's president of the Russell Television Corporation."

"Firse. Firse," said Ward, "I must congratulate you on the wonderful work that has been done by your outif. Maybe you can help us in the job we have before us. Have you heard about the mysteriously missing subwar train ?"

"Just read about it on the way down," replied

"They are," said Ward solemnly, "and it is a strange parallel to the case of old Van Alatyne's body."

"Yes," replied Tony, "I was struck with that idea as soon as I read of the tunnel mystery. What on earth can it mean?"

"That's what Hamlin has commissioned Charlle and me to find out," said Ward dryfy, "but, suppose we discuss it at binch. It is way past the hour,"

The three man were soon on the street of or or the way to be Actor factor. They detail lightly the the way to be Actor factor. They detail lightly the violatily of Times Square. The mystery of the subway insult was on evely toogst and they or the orchical gassersity. The congestion of truthe was terrific and, as they crossed Breadway test frame of mythweri singular the Times Building was sentioned and the truth of the the the derived states and the truth of the the derived states and the truth of the the feature of the truth of the truth of the the sentimeters and the truth of the truth of the sentimeters and the truth of the truth of the truth the comparison in the direction of submarks he had

"Margaret Van Alstyne?" he repeated, when questioned by Charlie, "there, up alread. She's about to enter the subway klock."

He straggied and pashed to force his way in the direction pointed out and, by dint of much tusking with concernated and complaining pedestrians, finally managed to reach the entrance through which the girl had disappeared. Down the stairs he cluttered and it was several minutes before Ward and Charlie were able to follow.

When they did reach the stairway Teny was not in sight so they decided to wait for his return.

"Guess he's gone on the girl all right," commented Charlie, "and looked scared to death. Did you notice her?"

"No," starsered Ward, "she was too quick for me. And I hope too quick for Tony. If he becomes involved in a wild goose chase after this young womon, we may not be able to me him in the task that confronts us. I have an idea be may be of great assistance if we can keep him put on the job."

"No doubt of that," agreed Charlie, "the boy has a wonderful brain and has had a raft of experience in all aorts of research. He was the shaling lights in the physical lab at college and his dabled a whale hot in pare science are since, "I's a hobby with him and he is source mough not to let it isturfice with his success in business. But here be concen-when."

Joining Forces

IT was a disconsulate Tony who grocted them at the turnstile through which they had not passed. He was out of breath from his efforts in attempting to overside the girl.

"Missed her," he said gloomily, "she ran for a down-town express and I just reached it in time to have the doors close in my face."

"Never mind, old man," axid Charlin, "she's probably on her way to visit relatives until she gets over the shock of her father's passing. I shouldn't worrs if i were you."

"That's right, Mr. Russell," chimed in the cheery voice of Ward Platt, "you'll find her later. Come on now-det's cnt."

Ten minutes later, in the comparative quiet of the Aator grill room, the three men continued the discussion of the strange events of the past night.

"So you think there is some connection between the Van Alstyne case and the disappearance of the subway train?" soled Tony.

"Yes I do," replied Ward, "though I have no real reason, other than that both cases are similarly buffing and unspecedented. You say that Miss Van Alatyas left the house shortly after the discovery that her faither's hody had vanished?"

"Yes," wild Twoy, "hater the recovered from here record, r dailed the local paics and they varied on the record before direst. They questioned in and mass of her borber was brought on p. It acams that this neutranal values in the high powered car was more than a start of the start of the starts that the start of the start of the start of the course the swatted in protect this bearans, from watt 1 learned on there, as he is model, and a disis were then bealene of here. It developed that his supports with the dama was benefits there it y ward path among the gamblers and gangsters of the white-light district. But I am sure the girl was mystified as were the police, and, of course, they could not hold her, since there is no evidence that her father was aremaly killed. The corpus deliet not being preducible, you know."

"There were no tounds in the room when the body vanished ?" asked Ward.

"Not a sound, and, though my back was tarened to the corpse, Miss Van Aistyne swoce she heard none and that she saw nothing except a sudden deflation of the corpse-filled pyjamas which appeared to slump to the floor in a sect of a mist that left the clothing empty when it cleared."

"Sounds like witcheraft," laughed Charlie.

"Not more to than the subway incident," and Ward, "and one can not blame the man on the street for mapscring sourching of the sort. Both occurrences are uncanny, to say the least, but I have a facing that the solution of one will lead to the solution of the other."

"How do you expect me to assist?" asked Tony.

"My size is this," was War?'s rapp, "year compay much have is note: a considerable number of talevision transmitters and receivers of the latest type and, it so, it is any thought that we might capip every train that enters the tanaed with one of the transmitters so that any further happening can be watched from a disease. Understordly there will be reporting and the incident."

"You think to?" asked Tony with great concern.

"Well, we have plenty of television instruments out at the factory in Long Island City and I can put a force of man at work on a moment's notice intalling them wherever they may be needed."

"Good," and Ward, "then, when we return to my office, 111 get in touch with the proper asthorities as once and arrange for their installation on a numher of trains to be seat through the tube. It may take days of watching, but I am confident we shall learn scenething by this means."

"But," objected Charlie, "suppose the perpetrator of these outrages strikes at some other point next time? If the same hand that wiped the train out of existence accounted for Van Alstyne as well, there is no reason to suppose it can not strike at any desired point."

⁴A remainlife appenditor, Chriffe Bet smorther ig behavior that and that the rhing in being accouplined by releasing the second se

other points. Possibly there may be individual cases at other points similar to that of Van Alstyne but, as far as the wholeasis kidnapping of a trainlead of people is concerned, I hardly think we may look for its duplication at other localities."

The Third Blow

THE subject was discussed for a full hour during and after busch and the three men returned to the office of the engineers with a well-formed plan in wised.

When they arrived Ward Platt was informed that the mayor had been trying to get him by tolephone for more than three quarters of an bour and that he seemed most anxious to get in touch with him.

"Something's happened already," said Ward, "as sure as you are a foot high."

He called the mayor's office immediately and was soon conversing with that official.

A few minutes later he replaced the receiver carefully and faced his companions with a tet expersion of determination in his gray eyes and in the antire of his chin.

"You got most of it?" he asked.

"There was another?" asked Tony,

"Yes, an eight car express lost in the same spot. Just as I predicted."

"What time did it happen?" asked Charlie.

"While we were at banch. The train left Times Square at 2:10 and was reported out of Chambers Street at 2:29. Thayler not running them very fast you know. And it is being lept out of the papers for the present."

Tony jumped to his feet and his face took on a gharity expression of fear. "Two-ten from Times Square, die you say?" his intoned in a fear-disedende voice, "good God, fellows! Margaret Van Alstyne was on that train. I loeked at my watch as it milled out of the station."

CHAPTER IV

On The Trail

A STRIDY RUSSELL block doesantly di denergy that sight and be deven blocks of the string of the sight and be deven blocks of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string of the string string of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string of the string string of the string of the string the string of the string string string string in the string string string string string string string in the string string string string string string string string the string string string string string string string string the string st

The news of the disappearance of the second train lealerd out through the efforts of an overmulcus reporter of one of the tabloid newspapers and the metropolitan district was in an uprear. Although both accidents had occurred in the tunnel of the West Side line of the Interhormph, it was exectically impossible to entwince the public that it was safe to ride through any of the other tunnels. When the early morning rush hour commenced, the farries error the north river were errouled to cate acity. The new Hudson River bridge carried an increasingly heavy traffic and the bridgets over the East River grouned beneath their unnecestomed loads. Regular train service was maintained in the between. Traffic on all lines of the Interbureugh, B. M. T. and the new Eighth Avenue subway was normal in Manhattan, but trains were not continued below Wall Strort nor across the East River excepting on those lines which crossed the bridges. On the Brooklyn side, Borough Hall starion became the terminal for the Interborough lines and traffic through the tunnel of disaster was limited to two trains in each direction, which were to ply back and forth hetween Wall Street and Rerearch Hall, each manned by a company of National Geard and a detail of police. The television radio equipment on these trains and in the tunnel was placed in opera-

Tay instant on using the fast turk that control to control and C-Markov recognized law, sampled to control of the range of experimental law, sampled the trans of the instant physical control of the range of the law of the law of the law of the approximate of the law of the law of the law of the approximate of the law of the law of the law of the approximate of the law of

As the first train palled out of the ranson, Word Paint wakabed the oreen picturing the interior of the first car. Here were visible the tenase faces of Taey and Charles, behind whom were gathered a group of police and militis, all straining to obtain a view of the tracks and tumous theod. The and/or a view of the tracks and tumous theod. The molethe materisent on this tena and Ward spakes intertion interpret, bidding its parameter good herb.

Charlie smiled and externed the greeting. "Dou't worry about us, Ward," he said, "We'll come through all right and we're going to see this thing to a (init). But Tony's worried about the lady."

Tony grinned somewhat sheepishly at this. "Frankly I am, Mr. Platt," he sold, "I know she was on the last train loave an abaves a presentition that she did not leave the train in Manhattan. If that is the case, she is lost with the rest of the proceepers."

"Bat you have no certain knowledge of that,"

raid Ward, "She might have left the train at Fourtearth or Chambers or any of the stations on the way down. She is probably safe somewhere in Mashattm at the propert moment."

But Tony shock his head gloomily at this. He was not to be convinced,

The Hunters Caught

THE truit was gratering yord and the watchers at the scenes transferred ther gas to the view of the transf about of 1. It is essential that they were right be firsted of the transferred there gas to the view percepted. When the lowers point was reached, and had way for here the view of the transferred there about had way through the time, and with three of and light separated in the gas because the transfer at hey were spacial with full pressure. A quick finder as the observations of the brains and they more space there are three of the brains and they more space the scene showed the company of the inset are threen show a rangeling large by the with the jarring cluster of the attempting trans.

"Looks like we're in for it!" shouted Chartle, picking himself to his foot and staring from the front window of the car.

The gase of the watchers in Rescold's office shifted once more to the forward access and there they observed the useden changing color of the warning light. It fured high, changing slowly from its brilinst rol to a pale wislet grow that second to creep along the track toward the ill-fated train. Then one of the occenters wittend a statistic or.

"Look?" he said, pointing a shaky farger to another of the across.

This one received the image from case of the persament transmitters in the turned and it piotured the train isself from the rear. The violet hase had surrounded the metal-work of the curs and from every conser and angle there glowed spartilleg phipoints of light that spottered and blinded the wetchers like ministure explosions of flush neorder.

The tracks and testion would of the table glowed believely which means corn light and andredy they vanished from wires. The battom sense to be they be an experiment of the tracks are mained instance, coreingly protect in mid-lin. Then, being's might by sense baseds. But he train aremained instance, coreingly protect in mid-lin. Then, they are the theorem of into the train aremained instance, core in the sense of the train aremained instance, or the train area of the sensitivity of the train area of the sense of the disference means. Believe they could each in their statef and its their annual cyres the tracks and turn the sense of the sense the sense of the sense of

À shout came from the lowdpraker and the waithers intravel to the other screens. Indice the ere could be seen Charlie and Tony, their faces frame in manusland granues. Behidd them dhree appeared the right forms of a number of sodiers, and police, all forces to immobility and screeningly mathle to move a match. Tony grew red in the fore in an informerant accession to speak. His fontures contorted painfully but he was unable to utter a word. Then came the sound of shouting from outside the car, and the watchers turned to the outside viewing acreen.

The view pictured an immune covera, consider with creatures, at first hight of which, the mayne with tred an involutary cay of digarat and fam. Mosstrona spot, they around to be. But those in closen proximity faced the watchers with exity beeing human continuous. Then these were thrust added unceremoniately by a max who appearation the train with astronaes appear in high giftering systs and with shouts of inpatience to his inhuman companions.

"Curse them !" he yelled, "They've got a television instrument on this car."

His givening fact leaded large in the scenes of large from two real coled and just as Word Phrit A farge from two real coles and the scenes of the behing out of the river in this access, there was a behing out of the river in this access, there was a gain transit to the inner cores, the lights in the transformer of the occupants model innovable flucters were same to go out. In the dist lights in the access the scenario of the core parts model innovable fluctuations and the scenario of the scenario of the core were same to go out. In the dist lights in the access the scenario of the core parts model innovable fluctuation of the scenario of the scenario of the scenario consolid to the permanent transmitten in the transt of approx.

The mayor turned to Ward in amazement. "Did you recognize the man who approached and destroyed the first transmitter?" he asked.

"Yes," breathed Ward, "It was Jeremiah Talbot !"

A Recognition

WHER the rol that appared in the immutance on house the min were autohled beyout assesses, her when it marged ion the shide proof assesses, her when it marged ion the shide proof that and the shife of the shife of the movies of a function of the shife of the shife of these up freet, shife of the shife of these up freet, shife of the mountial vibration. The unsettly when shife of the resting of the shife of the shife of the shife of the shife.

Into the cavero below, drogged the eight massive code cars with their paralyzed human fright. A slight droning of machinery beneath table of baparryly physical accomplianment of the table, but the motion was no ismosth and atmidy as to give the impression of being carried out by some separatural agency. It second thay were in a drone from which they must soon academ

But there was nothing dreamlike about the contact of the squat hairy bodies that some crowded into the cars and, in the semi-draftmean, lifted the helpless figures of the passengers and carried them to the outside. In the blow-white light of the cavern these bodies were made out as those of a strange breed of creatures, part human, part beast. Hurry barrel-like chests characterized these strange similar monators who wore trousers like men but exposed the naked, hairy upper, portions of their bodies with out covering. Bendy deep-set, black eyes pared out from beneath bushy brown in challes-white faces of human monid. And, strangest of all, these faces were not malicious in repose. They were more like the hopelessly vacant visages of incurable idiots. Only when the creatures smilled, P their grimaces could be called smiles, were the faces will. Of not more than five feet in height their thick bodies surmounting uniformly bowed legs, they gave the impression of tremendous strength. And the pressure exerted on the hodies of the victims by some of those long arms left mute evidence of this strength in the form of bruises and

The members of the police and the millita verse taid on the rock frace of the asymptotic policy of the being propagated for burnal. Then, when all had been removed from the train, a max, a white mass garbed in gray woolens of excellent quality and eut, walled shared the line and susceringly regarded his copityes, Whan he came to Tony and Charlie, he stopped shereafty.

"So," he said, "At last we have two scientists among ut, Welcome to our realm,"

He buybed aload and to Tony's numbed senses there came the recollection of having heard that hugh before. But he could not move his head, could accrete roll his tortured eyes, so it was inspossible for him to see the features of his captor.

"And now, Mr. Anthony Ressell," continued the familiar voice, "We'll irce you and your friend. At least you did not come against me armed."

He directed four of the measure to carry the two messions and adjustment of the creature, he may be the adjustment of two of the creature, he may be creatly compared on a solver more direct on section of track to join two others that excepted a section of track to join two others that excepted a section of track to join two others that excepted and the low which they had been kidning-out the covern had been hallowed from the load rack beaming the time hallowed from the load of beaming the time hallowed from the load beaming the time hard was observed by an other the other has the top equal the load of the load of the table from which they had been kidning-out the load the time hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was observed from the section of the table hard was not hard to table hard the section of the table hard was observed from the section of the table hard was not hard the table hard the section of the table hard the table hard the table hard the section of the table hard the table hard the table hard the section of the table hard the table hard the table hard the section of the table hard the table hard the table hard the table hard the section of the table hard the table hard the table hard the table hard the section of the table hard the table hard the table hard the section of the table hard the table har

After basing carried for come considerable distances long a parage when the only Diminision was from hand lights carried by relater captors, Tony and hyperbarries and the darking root of a locarizes massion. It was lighted in the most modern marmatic line and the darking root of a locarizes massion. It was lighted in the most modern marmetal functional companies of an index of the line which at fast glutar appointed to be a huge whether. The two new wree places on their fact balance this manage place of the function on their fact balance the company of the state of the state of the state of the context balance for the state of the state of the context balance for the state of the state of the context balance for the state of the state of candescence that nearly threw them to the floor But, when the dazaling beilliancy abated, they found that their muscles were once more in normal condation and that they could move their limbs freely

himself gazing into the grinning counterance of the man of the gray fannels.

"Jerry Talbot!" he gasped.

CHAPTER V

Talbot Explains

THE strangely allent beast-men retired from ment at the debonair figure he faced.

"Yes, Tony," said his unabashed captor, "it is 1, fereniab Talbot. You are surprised to see me alive -and here?"

"Surprised?" exclaimed Tony, when he was able to speak, "Why, Jerry-you have been reported dead these seven years. Your mother and sister have mourned you, and all your friends considered you as no longer in the land of the living. What on earth really hoppened, and what are you doing in these strange surroundings and engaged in this nefarious work with these uncarthly monoters?"

"It is a long story," reolied Talbot, "But there is no hurry to relate it. You are going to be with me for a long while-from now on, as a matter of fact. Who is your iriend?"

"Excuse me, Jerry. This is Charlie France, the television radio wizard-Jerry Talbot, former Research Engineer of the Union Electric Commany?"

"How do you do, Mr. Talbot," responded Charlie, onlitely yet somewhat stiffly. "I remember your work and the cause of your disappearance in the company of Professor Ainsworth,

"Glad to meet you," replied their host with smiling equanimity. "It appears though that you are not as pleased to most me. However, we'll let it page. So you are responsible for the installation of the transmitters on the trains?"

"Yes," said Charlie haughtily, "and at a number of points in the tunnel as well. Our friends above are fully aware of what has happened now."

"So?" grinned Talbot, "What little they know will avail them nothing. And this is but the beginning."

Tony every impatient. Not only did the cake sereriority of the long-lost Jerry Talbot annov him. but he was anxious to hear more of the purpose of this warfare against the people of the great metro-

Icrry," he interrupted. "What is this all "But. about? How came you to be here? Who or when are these strange beasts, and why are you warring

Talbot laughed, a light of fanaticism elinting from his piercing black eves. "One operation at a time; my dear Tony. And, as I previously remarked, there is plenty of time."

"Surely you do not intend to keep us here?" asleed

"Nothing else but. You are never to see the light of day again, nor are say of those I have kidnapped-unless-but that can wait alon."

This man is a criminal of the worst sort," blurtad Charlie, "But, he'll get his just deserts, 140 wager he murdered old Van Alstyne, too."

"We shall indulge in no further remarks of thet sort, Mr. Frazee," said Talbot, with a threatening steeliness of tone, "Yes, I did remove that old rascal, Van Alstyne. And, further than that, his daughter is now in our fair realm, a prisoner of YFRE. T

Tony bristled. "You'll not barm her. Jerry !" he

"Oh ho?" said Talbot, "So the wind blows that way? But, you can rest easy on that score. The girl will not be injured. And now, set this straight -I promise that no harm shall come to you nor to your friend, Frazee, who is glowering at me so threateningly. But you must not minunderstand your position. You are prisoners in this subterranean empire of which Ainsworth and I are the absolute monarchs. It is impossible for you to escape and if you attempt to disrupt our plans or to indulge in violence of any kind, you will be sum-

"Then Ainsworth is here, also?" asked Tony interestedly.

"Yes, indeed. When we left in my plane to escape the underirable publicity given to our experiments in creative surgery, we had a definite alan in mind. But we had no idea that we were to become involved in so stupendous a thing as has de--denuded of its apparatus. We headed for this inhoratory with the intention of marconing ourserves for many years to carry on the work of making hussans from the lower animals, Wells' Doctor Moreau in real life, you know. But the plane crashed bafore we reached our destination and we were forced to carry on in the diraction of his laboratory on foot. Luckily we had escaped injury in the cresh but the hardships of that attempt to reach the laboratory were terrible. After two days and nights we were overtaken by a blizzard which made continued progress isooosible and we took refuge in a cave about a hundred and fifty miles northwest of Shipiskan Lake. This was the beginning of our good fortune."

But your plane was found completely consumed hy fire and with the remains of human hones in the wreekage," objected Tony,

"Yes. We returned later and set fire to it to throw any inquisitive searchers off the track. The hones were not human-though nearly human."

An Underground Empire

TONY shuddered involuntarily as he thought to the ape-men who had carried him.

"That cavern," continued Talbot, "was snowbound within a very few hours, but we were only comfortable and had provisions in our packs for a long stay. After some time of inartisity we decided to explore our refure and our nocket flash lamps were brought into play. We seen found that the small cavers was but the entrance to a much larger one which law at a considerably lower level. It was a stronge experience to be prouding about in this underground chamber but we carried on until we finally came to a small lodge that proing on Aisworth's shoulders I was able to clauber onto this ledge and, when I had sulled him up alter me, we discovered that a narrow passage led in to the solid rock from the point where the being inime the wall of the main payers. It would have me were I to recount all of our adventures but, after miles and miles of following winding pessages and exploring many interconnecting caverns, we finally it a yest underground world heneath this continent of North America and you now stand in one of its many many connecting divisions."

"What I" exclaimed Tony and Charlie as one voice

"It is the plain, unvaraished truth," said Talber "Do you mean to say," asked Tony, "that these

caverns and passages extend clear down into the

"Precisely. Not only that, but they cover almost the entire continent cast of the Mississioni. There are thousands of miles of passage and thousands of great causers, one to large that it contains two tario. But, some of this you shall see so there is little use in describing it to you at this time."

"These ano-men, though," asked Tony, "Are these the normal inhabitants of this realm?"

"Yes and no. Those you have seen are a development of the natives we found. Others are in a higher state of development and still others are still in their natural state. These yes shall see also."

"Are there many of these creatures?" Tony inonired.

"Ainsworth bas estimated their number as about afteen million."

"Holy smoke?" ejaculated Tony, "And you have them all under control ?"

"Absolutely. To them we are gods. And why not? We have lifted them out of their savagery and have provided them with many of the comforts of modern civilization. Some of them we have even

Charlie listened in stubborn disapproval, but Tony was extremely interested, "But the money, the wealth it must involve to do such things as you

Talbot smiled wryly, "Yes, I know my father was financially ruined six years ago and that he committed suicide in consequence," he stated, "Van Abstynt did that, but still I withheld my hand sand of her own so she could manage fairly well. But, within the post few weeks, Van Alstyne took that from her. This was too much, so I-removed

Tony recoiled before the look of ferre yearefulntas in Talbot's eves, but he could scarre blame him for his feeling. The expression of Charlie's face softened somewhat as he listened.

"But how on earth dat you do st?" saled Terry "There is much to tell," replied Talbot, "But first we shall visit Ainsworth. I have an idea he will welcome you both rather gladly. And, for all your ming to be unhanny with us. It is a rieasant life and, after a few years, you will quite aniny it. I am

Tony shrugged his shoulders at Charlie's meaning look. "Well," he said, once more addressing Tallot, "May I ask one favor ?"

"You with to see Miss Van Alstyne?" united

"It shall be as you wish," agreed Talbot, leading the way toward a curtained receas at one side of the hare mon

An Underground Journey

HE parted the cartains and there was revealed I the case of an elevator, modern in every detail. When they had entered the care he closed the door and arrested a butter, wharteness the ear descend swiftly into its smooth-walled shaft. For an interminable period they dropotd with ever increasing speed and finally Charlie could hold himself no

"How deep is this shaft?" he asked

"Something like four miles," answered Talbot.

"Four miles !" gasped Charlie, "You have cables of that length?"

"There are no cables on this ear. We are falling by gravity. But it is under control and will be peutralized before we reach the bottom."

"Nontralized?" asked Tony, "Then you have disenvered the fundamental laws of gravity and have learned to counterast them ?"

"Yes," smiled Talbot, "But that is only one of the many remarkable discoveries that Ainsworth and I have worked out in our underground labor-

"Evidently," agreed Charlie, "Not the least of them, I should say, is the steading of a soloway train from under the river and leaving the tube

"That is a pretty good stunt," replied Talbot, "But, when you are accuminted with the mysteries of the fourth dimension, it is really quite simple."

"No, not time. That is an erroneout impreasion that is in onite general acceptance above. No, the fourth dimension is not time. But you shall learn

reatie stop at the brightly lighted entrance to a long, rock-walled passage. As they proceeded down this passage. Tony and Charlie noted the smoothness of its walk, which appeared as if the opening had been fused into the solid rock by some tremendous heat that left the sides as glossy as glazed percehin. The lighting was from translocent clobes overhead that shed a soft radiance that was as revealing as the glare of sunlight, yet restful and soothing to the eye

"I can not understand, Jerry," said Tony, as they walked along the passageway, "how on earth all of this work has been accomplished in the few abort years you have been here. I presume that none of these workings existed before your coming ?"

"Of course not. The natives were alsokataly ignorant. But they are powerful and are good imitators and tireless workers. Besides, Ainsworth known up above and that make work of this sort much simpler in Subterrania, as we have named our hidden country."

"One thing I have noticed." sold Charlie, displaying his first real sign of interest. "Is that all of the caverns are lighted by artificial means. If the natives of this great underground realm lived in troduce them to modern improvements, how is it. that they have perfect organs of sight. I should thick they would be without even. She the fish in the waters of some of the caves of Kentucky and West Virginia."

"Oh, but they did not live in darkness before we came. These are all artificial caverns you have seen The larger natural coveras are lighted by phoephorescent materials in the walls and roofs. This light is not as bright as sanlight, of course, but is sefficiently bright for normal sight and will permit of reading without difficulty. There is no night in Subterranie unless one enters the smaller connecting caverns or passages where there is no phos-

They now emerged into a larger chamber and, following their guide, proceeded up a gentle incline to a large, metal-studded door. Talbot inserted a key into its lock and they entered the strangest room they had ever seen. It was runiniscent of one of the huildings of a large prison, excepting that there were no harred cell doors. Instead there were tier upon tier of rooms around the sides and, for some seven or eight floors above, each tier of rooms was surrounded by a beloony that could be reached only by a small lift that connected the various levels. Talbot led them to one of the many doors on the main floor and this opened at his manipulation of a dial on its surface like the combina-

The opening of the small metal door revealed to her shoulders in exchanting disarray, sprang from a divan where she had been reading and immed to her feet in some alarm. It was Margaret Van Al styne and when she saw Tony she flushed with pleasure and advanced to him with outstretched hands.

"Arthony-Mr. Russell," she isliered, "You have come for ma?"

CHAPTER VI

ALBOT observed with an iranic smile the somewhat emberrassed greetings exchanged by Tony and Miss Van Alstyne.

"Til answer your question, Miss Van Alstyne," he said. "Mr. Russell has not come for you. Like vourself, he as a prisoner. But it is my pleasure that you he given the freedom of Subterrania and I Mr. Russell's custody, provided he gives me his word of honor that no attempt he made to cyade my law."

Margaret looked at him with fear, not unmixed

"What is your law?" asked Tony,

"You are to become permanent residents of Subterranis," replied Talbet, "and as such are subject to all laws of the realm as enacted and enforced by Ainsworth and me. In addition you are to make no attempts to communicate with those above up and are not to jeave the confines of the city Olaka

Talbot shrugged his shoulders. "Miss Van Alstyne will remain in solitary confinement and will later become a subject for our emeriments. Ho, derstand me. Tony. It is with no tenderness toward the daughter of Wolf Van Alstyne that I make this offer. It is for the simple reason that I college days and I know it will give you pleasure to have the young lady free and in your company, Do you accept the condition?"

Tony nodded slowly and mwillingly. Through his mind there reshed the remembrance of some of the "experiments" credited to Talbot and Ainsworth by the newspapers some years before-experiments in which the alleged torturing of damh contrapolate

"Yes, I agree. I give you my word," he said.

"Good," said Talbot, "now, we shall visit Ains-

He failed to observe the wink that Cherlie indulged in for Touy's benefit. France had made no promise.

They returned to the elevator by which they had descended and were soon alipping rapidly deeper into the lower regions of the strange realm. As the car dropped speedily through the smooth shaft Tony remarked on the even temperature of the at-

"The temperature," said Talbot, in explanation, "is almost uniform at seventy-four degrees Fahrenheit the year around. This was a great surprise to us when we first came to Subterrania, for all evito an average increase in temperature of one degree for each one handred feet descent below the turbles of the earth. This would mann is temperstarts of more than 500 degrees at ten miles below the surface but there are positions of our realm much desper than this level. How we have accounted greater than at this level. How we have accounted to a second this level, there we have accounted to a second the set of the produced by the second second second second second second second available of wearble life is all hordness?

"Is the atmosphere of constant density and oxyren content?" asked Charlie.

¹⁰ "We according for the difference accounted (or by the varying pressures at different levels. The diministration of action distails and the replenishing of the oxygen supply is accounding the natwal functioning of certain phasts not fougl in model the same ways as this is done on the surface. The relative humshity is high, but you will not find it unconfortable see."

"There are no openings to the surface excepting the one in Labrador?" asked Charlie.

Talbot langhed. "That one has long since been scaled," he replied, "but here is one other by which we maintin unsuspected contact with the outer words. It is cleverly concealed in the heart of an unscalable meas in Arizona."

"Then your domain does extend west of the Missiscingil" exclaimed Tony in party is.

"Only to the one point," said Talbot, "and this connection is by a tunnel we have produced since our coming—a tunnel more than twelve hundred miles in learth."

Tony whited in astonishment. "Jerry," he said, "I have asked you before how such atupendous tasks have heren performed--ungineering marvels that cost millions of dollars and require years to accomplish on the surface--but you have evaded me."

"Table grinned lin appreciation. "Tary," has and, you pipe of orders. Were Ausworth and I to return to your world we would be the weithings multiwe. Three are undefin ullisses in perform which is the second second second second second world of the American manary. We could, if we would not be an ensure that an ensure of this wate world were weak. Some small amount of this wate world were weak. Some small amount of this wate world were the second second second second testing and machinery we can best obtain in this result. The second second second second second relationship is the second sec

"In reddition to our discoveries is connection with the forsth dimension we have also discovered the scene of atomic distinguishes. We have at our command are undersamded froms that is released at the tonch of a forger. Were it not under complete control-were it permitted to continue methodeed when once started—the annihilation of the wordt would result. The tweive lunderd unlike the wordt would result. The tweive lunderd unlike the distinguishest contacts of the scenario of the scenario with directed concession differentiation of the untion directed concession differentiation of the untion directed concession differentiation of the unterial through which it passes. It is as straight and annoth as the bore of a rifle and the direction of the energy that produced the result was by the bands of Ainsworth and myself."

"Ye goal I" exclaimed Teny, "no wonder you are so coclesure aboat what you can do in the way of imposing your will on the world. But what is the partone of your ensuity !"

Talbet acowled. "We'll leave that until we see Ainsworth," he responded shortly, "we change cara here."

Across Subterrania

THE cape halted at another large chamber where ing in a smooth grower in the rock floor. They were led to the shiny metal side of the vehicle and Talkot opened a door that led into its padded interior.

"Enter," he said, smiling as he handed Margaret into the opening.

When they were all ensembed in cushioned seats that lised each side of the car, Talbot closed and bolted the doar.

"It is eight hundred railes to Otaka," he said, "but we'll be there in an hour."

"An hour ?" asked Charlie incredulously,

"Just about. And I must warm you' to other back deeply into the exabload chair-backs. The acceleration is terrific and you will succedy be able to more when we have reaction full speed. Just sit quictly and do not worry shout the dreeferation when that is necessary, for the chairs rotate automathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the pressure mathelity at the instant is storar so that the preserve. Let a more than the pressure of the pressure of the storar so that the pressure of the pressure of the preserve. Let a more so that the pressure of the pressure of the storar so that the pressure of the pressure of the preserve. Let a more so the pressure of the pressure of the preserve. Let a more so that the pressure of the pressure of the preserve of the pressure of the pressure of the preserve of the pressure of the pressure of the preserve of the pressure of the pressure of the pressure of the preserve of the pressure of the pressure of the preserve of the pressure of the pressure of the preserve of the pressure of the preserve of the pressure of the preserve of the pr

The car started smoothly and silently, entering the black mosth of a table of not more than twelve feet diameter. The whiled of the site compressed hotween the car sides and the bore of the table zoon rose to a shiftll note that told of tremendous speed. "How is the car propelled," should Tany.

"Atomic energy," replied Talbie, "it does not touch bottam or sides of the tube, but is supported on a cushion of the air it compresses during its journes,"

Tony turned his hard with difficulty to took at Chatto. Its enough of the standard problem Chatto. Its enough of the standard problem into bolind them was so great that it was almost impossible to move a model. The uncondershull position and the trouble in making themselves hard over the hell indu to the well' passage keep them silican the more standard of the journers.

When the car reached its dustination they stepped into the open with expressions of astonishment that enneed Talbot to smile and chuckle.

"Why-why-it's beautiful," gasoed Margaret,

They stood near the shore of a great body of water and, but for the different quality of light, it would have seemed that they were in the open air of their own world. For overhead swept an arch of deep green that merged into nothingens in the distince where its color second to melt has a fathemless distance comparable to the heavens themselves. It scenad that there were five blue-while must in this firmament—but no iters. Open-monthed they stared at the worders and becuites of Subtermine.

"The sums," explained Talhot, "are great patches of phosphorescent materials imbedded in the arched reof of this huge exerve. The further is some six hundred miles from this point and it is the largest of all."

"Six-hundred-miles?" intoned Charlie, "Sor heaven's sake, how large is this space?"

"It is more than seven bundred miles in length and well over four hundred in width," said Taibes, "its two lakes, Adkina and Anika-og, are the two of which I spoke previously. Olaka is but a few miles about the coast.

"And the height?" inquired Touy.

"Eighty miles at the zenith. We are notely out hundred miles below Chicago where we now stand. This cavity is a buge air-bubble in the earth's cruat that was left during the process of cooling. It is the largest in Subtremail."

"It is the most amazing thing I have ever with nessed," said Tony, "who, in our world above, would suspect that such a world exists beneath their feet?"

The siz was redolent of sweet odors of growing things and Margaret exclaimed again and again at the beauty of some new growth that attracted her astention. She had drawn a few fort from the three men and suddenly guiped as her types rested on a most unexposed gight.

"An airplane !" she called out.

Again Tablec sailed as the two men turned ho continu ber discovery. The simplane was a tim little thing of not more than thirty feet wing speeds - a modern biplane of the calibrity train and capable of stating five passengers. Tony and Charlie wallood to the crist is an isopert and Marguert gargled delightoolly when Tablec indownaic her that the shore was to exerve them to Oblas.

"Where's the engine in the contounded taing?" Charlie was asking as Jerry and Marguete reached the plane. For, though there was the conventional propeller at the forward end of the boar-like body, there was no evidence of a driving motor.

"It's in the shaft," laughed Talbot,

"In the shaft?" ejaculated Tony, "for the love of Pets! What is its power?"

"About three hundred horse. It is an stomic engine, using water as a fuel and is but three and a hull inches in diameter and eight inches in hength. The release of atomic energy from less than four pounds of water will drive the plane the full length of this exeru."

Tony stared. "Great guns, Jerry," he gasped, "why aren't you in your rightful sphere? You'd revolutionize the world,"

"Yee," growled Talbot, "and to whose advantage? Some restal like Wolf Van Alstyne would maneuver things to his own benefit." He bestated. "Oh, I heg your pardon, Miss Van Alstyne," he spologized, "I had forgotten your presence."

Margaret raised her head proudly. "Granted," abe replied without rancer.

An Attempted Rescue

A TER a moment of emberrated silicon, the four etaslowing into the call on the place and four etaslowing into the call on the place and strength of the properties report and the source of weak of a silicon part of the source of the source of the source of the place back as the source of the same. Overhead the mixing person while the form the source of the American Source of the American theorem.

It was not a long trip to Olaka and, when the plane bended for the south shore of the lake and the aprawling city came into view the visitors caclaimed ancw as what they saw,

A single magnificent building of some three humfield hert in height ross above the ratio of the city. On all steller short pile cost and buck haland agend the steller short pile cost and buck haland agend expinel. Mere have, here obverlings executed to be And days were circular-walled and donred like an implexically from the orderpy rows of donred halos maintestably from the orderpy rows of donred halos mains at a radio piledy reflexes. The threat the presented at the cales of the rainiouv and, chargeperented at the cales of the rainiouv and, chargeter has the straight respective.

The view of the city was blotted out as the plane circled over the flat roof of the central building and in a moment Talbot had brought them to a perfect landing on the smooth surface.

"Welcome to Olaka," he said as they alighted.

Five minutes later they were in the presence of Professor. Ainsworth, that famous scientist of a few years hack who had been disowned by his goverament and by his contemporaries.

The fail figure of the once noted savant been tensely over a circular table that was placed in the exact enter of a huge room that was cluttered with laboratory equipment. So absorbed was he that he did not look up from his close seruiny of the table top until they had approached within a very iew fact of where he stood.

"What is it, Prof?" asked Talbot, in a quiet voice.

The tail figure straightaned at the question and, with hardly a glasse at the newcontra or recognition of their presence, he pointed a long finger at the table top.

"Look," was his sole comment.

They all bent over the circular surface which proved to be the viewing screen of some sort of television apparatus. Tony drew a quick breath of the subway tunnel at the point where the trains had disappeared. At the moving of a control lever the view shifted slowly from end to end of the tunnel, which was now brightly lighted by auxiliary flood lights of great power. It was packed with soldiery, armed to the seeth! And, at the exact apot where the last train had vanished from the viewers in New York, a gang of workmen was tunnel with acetylene toothes!

Talbot chuckled sardonically, but Charlie grouned as he observed that Ward Platt was di-

"Has the shaft been closed off?" asked Talbot.

"A half hour since," realied Aineworth, "Your solles of rock now separate them from our lower PASSAGES."

"And the prisoners?"

"Are safely below. They'll find no living beings when they break through into the covers. All they'll find is their silly subway trains-and elernity."

"Good God!" cried Charlie, "you'll not destroy

Alasworth looked the socaker over coolly. "And why not?" he asked.

"It's murder-cold-blooded murder i" exclaimed

"And what would they do with their rifles and machine suns if they reached us?" inonired the

There was no reply for the three visitors were once more watching the screen intently.

A great section of the tunnel bottom had fallen into the cavern below and the coming thus created was ringed with soldiers, who were prepared to short on sight of the spectron who had been elimosed in that brief instant in the Wall Street viewing arrens. Ainsworth pressed a botton at the edge of the table and the lights in the far-away covern were extinguished. Then came the cortable flood lights of the militia and rope ladders were dropped into the pit. Ward Platt was the first to elamber to the rock floor below and Charlie could not repress a useless cry of warning that sprang to his lips. The soldiers followed by hundreds and, when all were assembled in the great cavero, the watchers saw them prowl about and eventually come upon the abendoned trains where they reposed on the subterration siding

Alassorth reached for another butten and Charlie struck for his arm as he suddenly realized that this meant death to those distant hundreds of human beings-his friend and partner among them. But his blow, quickly as it struck, was too late. The batton was pressed firmly before

The screen was blotted out by a great burst of fame as a terrific explosion rent the air of the cavern. Then all was darkness.

Margaret arraymed and Charlie curred. Tony stared unbelievingly. Ainsworth eachied with the gice of a madman, the while he rubbed his bruised arm. Talbot twisted the corners of his mouth into his decisive amile.

CHAPTER VII

Into the Fourth Dimension

TUNNED into a moment of inactivity Charbe culckly recovered and, with a rest the a lion, spring for the throat of the man who had wrought the destruction. But Talket had anticipated some such move and before Charlie could reach his intended victim, there deshed into sudden view a creekling blue flome that contacted with the boly of the leaving man with a blinding impact. There was an instantaneous rumble in the sir of the room-then a jarring thump that seemed to twist the supports of the building. In Talkot's extended hand there was a glowing bulb from which the energy had emphated, And on the soul where Charlie's lithe holy had met with the strange force there was--nothing. Charlie had vanished as completely as had the body of Wold

Marwart roled and hit her trembling lip. Tony rubbed his eyes in disbelief.

"You've killed him!" he groped. "No," replied Talbot, "I have better uses for your friend. I have merely suspended his threedimensional existence temporarily."

"That fourth dimension stuff again." grouted Teasy in relief. "then you can restore him to nor-

"At any time within about one hour," stated Talbot, "but he'll have to behave himself if I do."

Tony shook his head in complete mystification. "I can not comprehend it at all. Yet, in view of what we have witnessed, I can not refuse to be-

Alteworth outtered about the horizontal viewing screen as though nothing unusual had occurred. Margaret listened in suprement to the helef explanation given to Teny by Talbet;

"The fourth dimension, as I mentioned before, is comething quite different from the popular conas has long been shown by mathematics, the first four dimensions being essential to the existence of a visible body.

"Suppose there could exist a two-dimensional world. We might represent it by a sheet of paper having only length and breadth, which is of course impossible. But suppose it did exist and that a circle marked on such a sheet represented a room. A two-dimensional being on the sheet could not enter the room since he rould more only on the which would, to him, represent the wall of the room. However, you or I could pick up this being and place him within the circle since we live in a mally move in the first three.

"Substitute our commonly known three dimen-



They were hearlifed to see her stragging with a secondast glast who was carrying her sware unminiful of her stainaise or biology

tions. A room has three perceptible dimensions with Hene are not coming through which a holy may pass, it can not submitply be entropy. But we we may despitise to solution of categories, in our many-dimensional works in holy must have a defmany-dimensional works in holy must have a default of the solution of categories in height, preceptions, Your frach is now in that conclines — us to do not out; since he has now result catility outlief the perceptible three dimensions controls. Do you have been the perceptible three dimensions outlief. The your hole outlier outlief to the super-

"No," admitted Tony frankly, "but I do get a glimatering of the rature of the fourth finamenico, oven though I do not understand how you control it. This then was the means used in ermoving the subway trains from the tunnel?"

"Yes. Of course, far more powerful apparatus was required but we merely provided for an interuption of the existence of the table buttom for a sufficient period of time to allow of lowering the trains into the cavity beneasth the table."

"And Van Alstyne?" whispered Tony so as not to be overheard by Margaret, who had returned to the viewing screen where Ainsworth still remained.

"The same thing," and Talbo, "compting the corregy was used only on the harr of the oil rased. It was rotated entirely out of the first three discussions permanently. Wave as antopy performed it would have been impeciallies to find the opposite the distribution of existence had been defition of the instance of existence had been defition of the body and reasoned it to one of our labortions in its relatively non-collect tasks."

"He has been restored then ?" asked Tony hopefully,

"Not to life. That would be impossible, with the heart non-existent for no long a period. But his body was restored to the condition in which you found it in Cartersville. It now lies on one of our dissecting tables."

Tony shuddered but, horrible as was this coldblooded disregard of human life, he could not help but admire the scientific achievements of this man.

"Watch," continued Talbot, "we'll restore Charlie."

The stepped to a walk which and made a quick adjustment. They normal lighting of the room duranted rook, in its stead there errors with threabing pulsations. The jarring themp followed—the actaction of wrenched physical support—them Charlie stood before them, somewhat dawd yst quils unhormed.

"Why-why? stammered Charle, "I hand every word of your conversition, yet I could not south you. I could see through you as if you were all mode of plass; through the walls; through the creat of earth above and into the depths of the however. It was the most remarkable experience. I have ever gone through. But I seemed to be warkenfore randito." Margaret had looked up from the screen, startled by the emage glow and the events succeeding its appetriance. Now she recovered and pointed to the screen in great excitement.

"Watch this," she cracil, "all are not dead in the cavern,"

The three men rushed to the viewing screen and there saw the destruction which had been wreaked worth. The cavern was helpted by new flood bolts. that had been brought into play by reinforcements who evidently arrived after the blast. The interior of the cavern was a mass of wreckage and many of the first detachment of soldiers had been blown to bets. The curs of the three trains lay in torn and twisted heaps on the underground siding. The optning from the tennel above was considerably enlarged. Many of the victims were still alive however, some mutilated and teen but others an parently very little the worse for their experience. The newcomers assisted those they found alive to one the survivors were helped to the outside. Fanally Charlie let forth a cry of joy.

"There's Ward," he shound, "he's alive !"

It was true, for one of the rescues dragod form a berny of bodies the bedraggid form of a rano in civilian cloudes. He was bloody and primy bet wis able to stard on his fere when raised to as a right position. Clarific gaugide his give when his personer tauend his face into plain view of the watches and then hobbled unilded to the nearest holder.

Ajneworth growled his disestisfaction, "We only got about half of them," he complained.

Even Tablet looked at blm with disgust. "That's glenty," he imapped, "the lesson was the main thing we wanted to get arrow. And I imagine they've had enough for some time. Glad your friend execute," he considered, turning to Chavlie.

They Talk It Over

 $T_{\rm eff}^{\rm HEM} helt the presence of Aliauwerth when gammindial of their convention, has interarted to the anti-entropy of the contemplation at their strength genera. Tabloo balling and anigned brief generate every additional field of a strength brief generated their strength of the three. It appeared that they were to be comparison of a strength brief generation of the three. It appeared that they were to be compared by the strength st$

He left them to their own devices with the parting information that he would return as an boar and conduct them to their first meal in Subterrania, which was to be served within that time.

Terry basisd himself removing the grime he had accumulated on bands and face during the preceding experiences. As he passed the connecting door between his own and Marguere's apartments he though the formula is the design of the formula is the star of the star of the star output of the star of the star of the star of the star research as formula intervals and star of the star output of the star of the star of the star of the star star of the star of the star of the star of the star output of the star of the star

Scon the sobs ended and he could hear the girl stirring about in her rooms, so he completed his own ablations and stepped to Charile's rooms to join his friend. Charlie grinned sourly at his appearance.

"A fine mess we let ourselves in for," was his arecting.

"Looks that way," agreed Tony, "for myschi I do not care so much, but this is going to be mighty hard on Miss Van Alstyne."

"Sure is," said Charlie, "and I don't see how in the devil we are ever going to get out of here. Wonder what they are doing with the rest of the gang they idenspoed."

"So do I. Though I fear there is not much mystery about that. Undoubtedly they are to become the subjects of some of the blood-curdling experimenta of the demented Ainaworth."

"What on earth do these experiments consist of, do you suppose?"

"Why there was server any direct proof that Absevent had horizond narmals resultably in his reconstruction work, but enough evidence was obbined to enable the antiporties to reveake its itcomes to practice medicine and surgery. You'll remember that TJDu, who had been asseining the professor, always maintained stority that the work was entibly painties and that much good to mukind and to the subjects of experiment would renul."

"I have often wondered how Talbot became interested in that sort of thing. He was a physicist and an experimenter along the lines of atomic science, high frequency vibrations and the like. What connection can there be?"

"It must be that the discoveries of Tallot led into the field of kalletes surgery," replied Tony, 'you know there has been some surgical work accomplished by the use of penetrating rays, but this was never developed to any great extent as far as 1 know. It is quite possible that here is where Talbei fits into the thing."

"That's right," mused Charlie, "and we must ad-

mit that he has done some wonderful things here. This fourth dimension business is positively uncanny."

A Beast At Large

AT this monsess their ears were ascalled by a torfield screens from the corridor and book men rashed to the door, stambling over each other in their eageness to reach it. When they burst from the room and stared down the long hall, they were beriffed to use Magness Van Alagree strugwere bounded to use Magness Van Alagree strugwere bounded to be and the structure of the measurements of the structure of the structure of the measurements of the structure of the structure of the measurements of the structure of the structure of the measurements of the structure of the structure

This huge man, for human he was, stood no less than seven feet in height and his body was matted with hair, yet showing extreme whiteness of side in the uncovered portions. When the giant saw them, he dropped the frantically struggling girl and turned to face the new enemies. He tossed his great head to throw back from his eyes the long brown hair with which it was crowned. His line, writhed, revealing a glearning set of strong, perfectly-formed teeth in a aneering grimace. Bushy brows sumported the most remarkable pair of blue eves imaginable but in those eves there was something that sent a chill of fear through the visitors. It was not exactly the ferociousness of the glare that came from their depths, but rather a mysterions, unfathemable mystery that was some-

Socing that the two men were regarding him with indecision, the brute again reached for the girl and she drew back in alarm. Tony cried out his rage as the hairy paws laid themselves on the shoulders of the tremhling girl. With a rush that reminded Charles of the old football days he was upon the monster. He sprang high in the air and landed on the giant's back, wrapping his logs about the middle of his body and twisting his arms around the thick nock in a strangling hold. But he was no match for this brute who spoke not a word but, with a calck wrench of his steel-muscled body, broke. Tony's hold and flung him to the floor, Tony, on his feet in a flash, sprang again, only to most the great hairy paws of the mounter, which now grasped him and twisted his body into a position that spelled certain breakage of the spine if assist his friend and Margaret screamed again and again

"Crom!" snapped the voite of Jerry Talkot, from only a few feet distant. He hold approached unnoticed by the contestants and now loced the brate with a satile of contempt on his crostly handsome face. "Drop him, Crom!" he ordered.

Tony was released and he dropped to the floor in an ignormizous heap. His huge mealing dropped his types before the glare of the emister and, with an infantite whimper that seemed ludicose when issuing from so bulky an individual, he whetled about and mude of down the hall with hulfing orvitness, occasion013 trunning in head to see if Jerry was parsuing him. Then he sidled through an open door and was rong.

Jerry laughod. "Nearly came a cropper, didn't you?" he said.

"Til say so?" exclaimed Tony, who had rises to his feet and was assisting Margaret to here, "who in the name of time was that?"

"Oh, that is only Crom," replied Talbot carelessly, "one of our experiments, you know."

Charlie glared at their captor impotently while Margaret sobbed in hysterical relief. Tony rubbed his bruines ruefally.

CHAPTER VIII

The Story of the Pithies

A INSWORTH predied over the table during the meal that followed. He flowered coprime that was not made about the prediction of the the butters of diffing. His across twistikings and primates were a contain score of worder and irritation to the violators, through Taihot scened not to nuice throug peediarities. It was evident that the self-celled predictors was in a state of extreme mental series.

Margnert toycal with her food at first but soon likeovered that have an summably many and that discovered that have an summably many and that we have a summable of the summable of the summable verticities of faint there were and mosts which Tai-Tain was an brack that a massive theory of consistions of the summable of the summable of the summable visible and summable of the summable of the summable visible and summable of the summable of the summable visible and summable of the summable of the summable visible and summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable summable of the summable of the summable of the summable of the summable summable of the summable of the summable of the summable of the summable summable of the summable summable of the summ

Answorth, without so much as excusing himself, rose from the table and hobbitd hurriedly from the room.

"He can't keep away from the optrating rooms," laughed Talbot.

"What sort of experiment is he now engaged in, Jerry?" asked Tony, "and what is the motive in all of this work you have done here in Subterranis?"

"I'm not averse to answering all of your questions," replied Tallot, handing eigers to the two men and lighting one himself, "shoet it will be impossible for you to betray us to the upper world. It is a rather long story but I might as well start at the beginning.

"When we first extered this realm, after being iterally outcoded and predictally forced to leave by our occuries above, we were associated to find a nor-human population. The notives, whom you have not as yet seen, are apo-more of the same genal characteristics as the Philomathropus errors of above a half another years Dr.C. But the halo the third interactivity and outcout 25000 rears B. C. when chipped stone, instruments were first make and used. Phylics, Almowerth colled form, and the name has stude. They have no longuage but are able to use a fore gutternal sounds and have a limited number of combanitions of these with the two works for and b⁴ for the designation of simihar objects. Thus they personnes quite plainly O-lakes, teins rame for this div.

"Our first experiments involved charging only the physical characteristics of these creatures by striggical and making means. We thus produced assess two thosessend of the higher trypy you asive produced assessment of the higher trypy in the set of about the same physical appearance of the same strict states are strictly appearance of the same strict 25,000 years B. C. Later discoveries and experiments enabled as to produce creations such as the one who stratefield you in the corridor, trapy supersent scheduler of the same strategies and the same strategies of the

"Did the natives submit willingly to these experiments?" inquired Tony.

"Yes, though in fear and trembling at first. You see, when we brought our scientific paraphernalis, we performed some stunts for them which convinced them that we were gods and were endowed with powers they could not hope to overcome. The first subjects for our experiments were given up more or less as sacrifices to the new gods, but when the results of our work became crident me had no difficulty in obtaining all the material we wanted. The Grimaldi are so superior to the Pithics physically that, even with their dull intellect, they could not fail to see the advantage in being thus altered. And then the reconstruction process was painless, since all radical alterations were made with the subject completely anzesthetized. The later supermen, numbering only about five hundred so far, have not as yet been released so the Pithics and the Grimaldi do not know of their existence."

Talbot's Ambition

"BUT what is the purpose of all this?" asked Charlie testily,

Turtor raised link systemess at the term of the imgenerics voice. "Whys' he said acouty, "the minigroups is for the advancement of asimer. We are going to crust a rate of asymeratic, naive them with the best brains that cas be obtained from the upper word and set them loose creatanily to insist us in conquiring and raining the surface. In this, and Annexeth and I have by the same of fully and make of it a worth-while aggregation of prophel."

His dark eyes gleaned with fanatical ambition as he spoke and Tony brainsted before propounding the next question. "You mentioned endowing these creatures with

"You mentioned endowing these creatures with brains from above," be asked, "what does this mean?"

"It means that we are commencing a systematic

isidnapping of residents of the upper world with the express intention of taking from the base of thins their knowledge and reasoning power and giving it to those supermen we are creating."

Charlie and Margaret stared aghast. Tony's checks blanched. "And the victims?" he inquired, "what becomes of them when their--er--brains have been taken from them?"

Tailor shrugged his shoulders. "They remain physicilly unique first with make good holeore. But they become moreon-or lower. However, they could serve no higher purpose in their narrow, uncless lives above. The knowledge they equival on the ourface will live on and become nightly useful in bringing about and sustaining the golden age that is to ensue".

Margaret shivered. "I think it is terrible," and said, "It is an outrage that should not be tolerated."

"Note to be tolerated?" reported Tables, with earing inhibition, "why, my data yroung liely, we net the tolerators. Who is there to gainary us? Who to determine what we shall so add? We are the marters of the world and will soon show our hand far more effectively than in the minor enposition that has already been made against your city of New York."

"Then there are to be other kidnappings?" saked Tony.

"Yes indeed. We must obtain many unijerst for the psycho-traniference operation. The thousand of the superment new to be equipped with herizan-with resoning power and intelligence to coverly well-androwed inhabitants of the United States. And the preliminary comparison of turner which will probably continue for the next seven or eight years will be preliminary comparison (turner down the morelle of the proples of the types would do the tupo we finally tryins our discrime block."

"And must we remain in this awful place until you have conquered our world?" asked Margaret.

"Yes, I'll do my best though to pretert you three from my patters and to see that you return safely to your houses when the time comes. Ainworth hus already requested that I give you up to hims for uis in the psycho-tennedrence experiments. Should our project till you must always remain hore. I see listle likelihood of its fallowe, howvert."

Margaret bit her lip and was silent. Charlie gritted his teeth in helpless rage while Tony regurded Talkot critically.

"Jerry," he said, "this is an elaborate program you have outlined. Are you and Aintworth the sole humans congred in the undertaking?"

Tablot housed. "No," he finally idualized, "there are about one hundred others, though flay goed most of their time on the surface. These are radicals who have been bunded together during our several visits to the surface and they maintain our contact with the upper work! They have a permanent encomponent stop the metia in Arianca. where our long turned turninates. Their homes are visible only from the air and, incs the locally is well off the regular latest of air travel, there is limite danger of their discovery. They are equipped with several large planes which are used in transporting our perchasion materials from the politor of manufacture to our turned entrance. All perchases are peid for in goed and are ordered in the name of a synthesial mining company, so no suspicion has been areased."

Ainsworth entered the dining room at this juncture. He was obviously much excited and his clawlike hands trembled agitatedly as he spoke.

"Come, come, Jerry," he babbled, "it is donothe first of the new men are ready. They are marvelous. We have succeeded beyond our wildest dreams."

He panel to and fro in his impatience, his crouching limp becoming more noticeable than ever. Talbot rose from his chair and followed his partner from the room.

"You people may as well join us," he said over his shoulder, "you'll see some confirmation of what I have just told you."

The Human Experiments

 $T_{\rm ridos and into a white-while does not a set of the long cor$ ridos and into a white-while does thatreaked of the A. Ainsworth carefully opened thedoes to an adjoining rooms and the valitots followed their captors into a typical hospital wordwhere no less than if by given typical hospital wordwhere no less than if by given typical hospital wordwhere no less than if by given typical hospital wordwhere no less than if by given typical hospital wordwhere no less than if by given typical hospital wordwhere no less than if by given typical hospitalstates where the set of the set of the set of the set ofhospital hospital set of the set of the set of the set of theless the set of the

"Gorth," he addressed the blond giant, "how do you feel?"

In strange contrast to the first of the giana they do not have been as the local wave to be the state back contrast, and the local wave the strange of the link, "cocycling that I an weak and diray." If the strange of the strange of the strange of the many of part conditions is accounting for your of part conditions is accounting for these strangery. Form the work of the strange the strange of a strange world where all is dirdit strange strangers."

"Better fie down now, Gorth," admonished Ainswurth, "you'll not be well enough to get up for two or three days yet."

He turned to Talhot in triumph, ignoring the visitors. "What did I tell you?" he exuited, rubbing those claw-like hands over one another in a freeny of nerrowness.

Talbot's cyes shore with excitation. "It is a success," he gloated, "we shall become masters of the world, you and I, even as we planned." He threw his arm over the skinny shoulders of his most partner and the two gased long and earnestly at their handiwork. The visitors eachanged giances of helpless wonder.

"Well, what do you think of it?" asloud Talbor, turning to the visitors with a triumphant smile.

"It is a wonderful account lishment," commented Tony, speaking very slowly, "yet a criminal one. We can not approve of yoar work, Jarry."

Talbot indulged in his characteristic shrug, making no reply.

Three was a coannotion in the adjoining ward. A mazeaffice voice rose again and again in incoberrent shouse and Tablog and his limping partner rusbed through the connecting deerway, closely followed by the three visitars.

The sight that neet their eyes was similar to be in the first way, with its assemble that here in the first way, with its assemble that any intervention was being another that any intervention was being another that any regulation keysital algebraic that any set of the result of production that the similar that was been been as a set of the similar of the voice however is a maningless, coefficiently this sole however is a maningless, coefficiently this sole however is a maningless, coefficiently this sole however is a maningless, coefficiently the sole however is a maningless, coefficiently cycs. It forward upon however, the spin-time of any sole of the sole of the similar that the spin-time of any sole of the sole of the spin time.

This had been an intelligent man, a prospersors business man of middle age by his appetrance. But now he was little more than a heipless animal, bereft of memory, speech and reasoning power. The work of the experimentary had here complete

"My God ?" Charlie burst forth, unable to contain himself longer, "you're a pair of munderens? Worse than murderers! This is the foulest thung I have ever imagined of the most savage of savages. You

He stammered in impetent rage. Tailot looked at him with an uncomponding emile of unknaacc hat Alaxworth startod like a basts and spring for the service, revising his tabots into the field of Charlies throat with basilal feredity. Like a finds the sarprised princer recovered and, which have the sarprised princer recovered and, which have under the chin. Alaxworth keesend his hold with a serven and toppid on the fiber in a senschare here.

Quick as a finit there appeared in Thilme's hand a small gibs bub which globed with a nodden spitcfel carrains. This time there was none of the carding hose fitner that had marked the ending of Charit's previous outputs. There was merely a share of threehong intensity and Charit's boy's stifferend to a rightly like that induced when they were first expure. Also boy toppids to the fibor where the appeared fib head to be holden the helptons figure of the regression.

"That'll be short enough of France's activities," sold Talbot, replacing his worpen in a side pecket, "from now on he is to remain in close confinement or he'll be killing Ainsworth. But my promise to you holds good-you'll not be harmed-only you must return to your quarters now and reason there until I call for you"

Tony opened his mouth to speak, his jaws working with fury. But Margaret slipped a trembling hand over his mouth.

"Come, dear," she whispered in his ear, "don't make things worse. I am depending on you to protect me, you know."

Tony subsided and he and Marguret walked quistly from the ward as Talhot heat over his failer partner and attempted to revive him.

CHAPTER IX

A Realization of Power

The cardies were bug and a similar to appearance that Tay and Margaret toos but pearance that Tay and Margaret toos but remains. They alternated the similar too the second field vectors and a special works they had fully concentrate on some constraints of the field and single will may which they had a larger way and a second second second field and single will may which hemsdardly evdences and the second second second second of Nerth America with the events and tended of the familier lines intrinsify and a second second details. They latt tendences are stated boom details. They latt tendence is notified for familier lines intrinsify and and with boom details. They latt tendence is detailed boom details and the second second details. They latt tendence is detailed boom details. They latt tendence is details details and tendence is detailed boom details. They latt

"See this," sold Tony, placing his finger on the point marking the location of the city of Chitego, "this is where we now we, according to what Talboe has told us. Here is the tunnel through which we came."

He traced an almost straight line leading nearly due east to New York City. The male cavern as outlined on the man extended from Charago on the month to a point alightly below Hattlesburg, Misalssippi on the south. Its left boundary passed under Paducah, Kentucky and the extreme eastern limit was hereath Bristol. Tennessee. From a moint almost below Jackson. Minuteippi there exsended a long red line that ended some fifty miles west of the Arizona-New Mexico border. There was a second large covern under eastern United miles wide and bying mostly under the state of Virginia with its morthern end crotsing Maryland and just reaching to the mothern border of South Carolina. There were a number of red lites indicating connecting tunnels hetween the two caveras and these were far from straight. They twisted and windered about, indicating that they were natand eather than artificial manager. Three jurther caverns of slightly smaller size ware mapped in eastern Canada and these were interconnected by many passages and smaller caverus of irregular outline

"I see you lost your way," came the immic voice of Tablot from the open doorway, startling them into turning abruntly.

"Yes," said Tony truthfully, "and we happened in here and have been greatly interested in this map,"

"Rather surprising, isn't it ?" asked Talbot, with-

"Indeed it is. Though you had told us of the size of Subterrania, we did not fully realize its true immensity. Why, this is a small world in itself."

"Exactly," agreed Talkot, "and it is going to play an important part in the fitture of the outside world. Would you two like to visit the quarters of the anthree of Olaka now and see for yourselves how rapch has been done for them since Almoworth and I took hold of thismer?"

"Oh, I think that would be very interesting," sold Margaret, glad to agree to anything that would relieve the monotony of existence as a origence.

They were soon on a broad, pared seen that fromted the building and extended to the there of the tiddeos hiss which it faced. The cold light of the five usual limitation their surroundings with considerable brillinary and with somewhat the same alteration of the color of their fields and deduing as would be experienced in the light of mercary wepor large. Durit thre-field studeow an they early be answerment to Margaren as was the unitsmilier color of the coldary of treatment-white disk.

"I'm glad we don't look like this always," she volunteered.

"You will," said Taibot, "whenever you are outside the main building. Our artificial lights inside are quite similar to the sight of the same, but all mamral lighting in Subtervania is of the same anture as the five same. There are practically no red rays in this light at all."

They had reached a broad readway that led between an orderly doable row of the curious circular huts of the natives. None of the natives were in evidence on the street.

"Were these huts built by the nativas themschees?" asked Tony is astonishment at the regulative and smoothness of their size and shape.

"You", region Tables, "He capy sites our arrivator. When we can be pi well a main a case and a set appendixion of said the line has a set of the the property of the said of the said of the her property of the said of the said of of the hera are (denoted, You might think to address the said the said of the said the said of the said of the said the said of the said of the said the said of the said t Thus are caused by distances similar to lightning that this picks thereas appositely charged metalic deposits in the factors and wells. Takes are usually accompanied by severe relations as well, since the humaj ennosphere is brought to the asturation point by redden charges in temperature and precipitation results. High winds are also produced by the electrical phonomers and by charges to in temperature that cause the air to flow from one sair will find the autober?

Margnet glanted spward, startled at the sound of a strange whitling overbead. She graped is accombinent at what she saw-a huge bat-like creature, with bread flapping wings fully twenty feet from the othy, winging its way out over the still lake. The ceric whistle was produced by this strange creaters.

"Look!" she cartained.

The two men followed her glance, Tony with as much supprise as she herself evinced. Talbot lawshed merrily at their astonishment.

"That is a parcease," he explained, "a species of sping lines of quie similar to those of the Nesanic say on the surface. There are many other strange creatures of the same period still living their leves in this realm. We have even encourtered pleakoasems as large as fifty fort in length in the dames foremts between the two great laber. If the sime foremts between the two great laber. If in lines in-safety was become accellutated of rearrow."

The Home of the Pithies

TWO or three of the Pithies had appeared at some little distance down the street and these stood gaping at the humans in open-mouthed curiosity. When they approached, the creatures did not move but continued to stare at the intruders from small brady, black eyes. They were quite simflar to the ages that Margaret had seen in the 200 hack home, yot they were infinitely more burnan and of online erect postnee. Their hodies were haley and the foreheads long and slooing. The jaws were somewhat protuberant, and the expressions of their fages vacant, yet nowise hostile. In stature they what longer than those of a human, yet not as long relatively as those of the ape. Their chests were doep and almost have of hair, revealing a skin that appeared under the cold light as a gleaming blue-

The provide these Triblings, "explained plerey," neuery sample, "Thirt costs are free and these see supplied by the Ionakis, who have the sity cose and regarding back grows in starten plevelanion along the shore of the lake. They are extremely flet of plot and one analysis overtak and explavative with their their means rangely of sense. They also be pointed that means rangely of sense. They also be found of a small senses and fish, their platic hand during jinthe when the plots and the sense of fish that grow to a weight as great as fifteen permds. The males are drones and are somewhat smaller than the females, who are the masters and rulers of their little females. and elsens."

"Was this city in existence before you came?" solved Tany.

"Three was quite a settlement insubling the crives just back of this point. It was the largest settlement in the rollm and we naturally focuted here. Then, when we last taught the Pfwins to build their hubitations, others come in great manbers and settled here to be sure the strange new temps have and it could not be set to be strange new temps have and it could be the set of the strange new temps have and it could be the set of the strange new temps have and it could be set to be strange new temps have been as a strange new temps to these sementational fease."

They had tarned a corner and new schunders and the three shores of the schule field has next larger and more contain. As ine of granders server is reveal or the Ginaldi Bougging short in close producing to their hences. These were similar to the higher type of ages and which at solution is which had be to be a schule and the schule of the Frikink, skey were still more exerts and had much for thangle bottom of which which. They were itsr loss index on a white which. They were itsr loss index on a white which. They were the loss index of the schule general and the schule of the schule bottom of the schule for the schule of the schule schule schule schule schule schule schule and prove to be deformation the met of indifference.

After visiting several more stretts of the city, the visitors tired of the adventure and did not object when Tablest suggested that they return to the casele, as he called the main large building. He was in unusually good humos and offered to show them the details of the psycho-transference work in which he and Asinsworth work engaged.

Margaret shuddered. "I could not bear to witness an operation." she objected.

"But these are entirely paintess," Jerry explained, "The whole thing is done bloodleasly and both subjects are sleeping postefully during the process. They have no realization of what is occurring and are in no pain whatsoever, even after they awakes."

"Oh, but I can't lear to think of the poor humans who must give up their intelligence to these manufactured giants and become morons like the one we saw in the accord ward," she beaved.

"These people are nothing to yon," and Talbes, "They are not even your kind. Few of those who ride the subways are of the weakly class who are your friends and associates. What difference does it make?"

Margaret was about to retort hotly and it was Tony's turn to interfere. He nudged her with his elbow and she refrained from farther objection.

The Operation

THEY followed their captor into the castle and energied a few minutes litter from the car of the lift which had carried them to a floor of the building where the constant while of high speed machines filled the air with planeanity throbbing withertions.

Into a sootlessly white laboratory they accom-

panied Talbot and he pointed out the many generators of the various energies used in the processes which achieved the horrible results they had already wincessed.

Is an adjourning room three were towely double operating tables and all of these were coccepted. Many the second with dread when the observed Many three second blue coverings lid two figures on an atom or woman from her row world. There was no to allow the fulnt whir of the machines in the laboratory.

They approached the neurant of the operating tables and any what the head of the two subjects properties from hencesis the correspondence of the factor decody to the entire portion of the skell is which the break were excluded. The paintent has factor decody to the entire portion of the skell is which the break were excluded. The paintent has factor decody to the entire portion of the skell is which the break were excluded. But the through of the similary parpose behind those unkely experiments held her in a chill of for and disput,

To the cap-like contrivances, there were connected a number of cakies and these led to individual witchboards on the adjointy suil. These awitchboards were envered with multitudes of smill mechanisms that dicked and purrel and crainided one of the entriest board of an automatic telephone system.

"The process takes about two hours," exclained Jerry, "But in that time we are able to give our superman an education that would ordinarily require fifteen or twenty years to impart. You are, we have been able to develop the actual beam cells and convolutions of the Grimaldi along with the physical size and vigor of their bodies. Their brains are almost identical in construction with our own. but they are empty until we provide the knowledge. from an outside source. It was discovered fully ten years ago that the serve impulses of the human body are electrical. This was accored by means of the oscillograph. But it remained for Ainsworth and I to discover that all functionings of the cells comprising bones, tissue, nerves, blood and brain are fixewise electrical or electro-chemical in nature We learned how these functions can be controlled. We learned how to after tissue, to premote the growth of the cells, to alter their nature completely one cell to another in a different location. That is how we are carrying the conscious and subconscious mental equipment from the human to the synthetic superman."

Margaret second about to swoon, so white and pallid had her features become. Teay bent over her in softwarten and was only diverted from his attention by the sudden appearance of Ainsworth who second to be in a state of arret excellence.

"The supply plane is here," he jubhered, addressing Talbot as a ib did not observe the presence of the visitors, "And Marron has a peisoner--a stowaway on the plane when they left the field on Long Island. He seems to be a desperate character-

Without reply Talibe followed. Margaret and Tony trailed along and wrow not requested to do otherwise. They returned to the paved yard before the castle and there aw a large airplant of the eable type and capable of carrying a considerable load.

"Sarely this large plane did not come through one of your tunnels?" asked Tony.

The index (pilot thinks)' effects 1.0.1 cannot only from "No index (pilot Thicks 1.0.1 cannot only from the second seco

Two men of husky baild were struggling alongside the plane with a third man whose clothing was torn to shreds and who fought and cursed with the fury of a madman.

"What have we here?" asked Talbot, when they neared the scene of the struggle.

"A stowardy, sig," replied one of the men holding the prisoner, who subsided at cuce on herring the new roise, "We found him when only a few miles out of New York on the way back and thought we had botter bring him along. He might have seen and horied too mech."

"You did right, Marron," approved Talbot, "Let's set a look at him."

The prisoner raised his blood-streaked face in surely definee. But when his eyes rested on Maroaret he crind aloud.

"Margaret!" he exclaimed.

"Boh?" She leaned on Tany's arm and qualed in terror as also recognized in the batterot man her brother, Bob Van Alstyne, the man whom Tany had seen on that scenningly long-ago night in Carterville.

CHAPTER X

Remblings of Insurrection

The beers, the days that followed, were misrelate once to Margens and increasingly hoplass ones for Toy. Cratthe Frace resulted provide a second second second second second formed up is some unknown; and other could. To Margenet search entered the second second second by was in an diagon and work of the second second by marking and second second

Tony was religiously keeping his watch running and he marked off the days, these dragging stretches of twenty-four hours, on a note-book calendar he had been in the habit of earrying. When the days lengthened to a week and finally ten days had

passed, he grew increasing fearful for Margaret's anfety, and his own. It accend that Talbot was becoming more and more intolerant of their presence and, at the few times they saw him, he spoke to these in short, gruff monowillables.

Then there came a night, or ideoping period, of theorem when Margaret was available to be trivide towars and the start and the start of the start in the start of the start of the start of the start ment than an issue as the start of the darkness that are start as the start of t

Long after the solve had subsided Margaret lay in the arms of the strong man she had come to know and trust so implicitly in the few days sloce their first meeting. Silently they sat and silently there came to each a great yearning for the lowe of the other.

"Magaret," finally harst from Tony in a husky, faltering volce. "I have you. I have always loved you it seems. If we ever get out of this place I want you for my wife. Can you-could you ever feel the same way?"

"Oh, I do, Tony," she whispered, "I have loved you since that first terrible night back home. If we could only return there how happy we would be."

She sobbed anew and buried her head in his shoulder. It was with a feeling of great tenderness and excitation mixed with the hopeless fear that had come during the past few days that he kiesed her tear-mediateted line for the first time.

Revolt 1

THERE came still another day when Talbot works charefully to the captives at small time. Welly its asid, "After that one insurrection things have been looking up considerably. But our raw material is entirely used up and we are planning an expedition against Cheago directly overher, we need a course of thousand new subject."

"You mean," asked Tony, "that all of those kidnapped from New York have become morons?"

"All excepting those that Ainsworth did not consider fit to use and put out of the way."

"He killed them?"

"If you must call it that. They were merely removed by the simple fourth-dimensional process."

Margivist kept his eyes steadiastly on hisr plats but her food remained unbation sites that. Tony layeod into sitence while Tablot held forth is the old optimistic and boastful vein. Ainsworth had not even appeared for this meal-existently being too builty engaged is the preparations for the coming visitive of terror.
"May I visit my brother?" Margaret finally ven-

"Why, yes," agreed Talbot, "I guess so. We'll go to his cell directly the meal is finished."

He was indeed in good humor and Margaret hrightened considerably at his ready acquisicence.

But, when they reached Bob Van Alstyne's prison cell and she peered through the bars at his guant, drawn face, also ence more felt the unsametable foar of this dreadful realm and of its mensee to her brother and herself. Tailot stood by, watching and listening with little concern.

"Oh, Bob," she said, "Why did you do it?"

He shrugged his shoulders resignedly. "I thought they'd accesse me of father's marder and I wanted to get away while I could. I went out to the airport and stowed away on the first large plane that left. I got into--this."

A confined murmur reached heir ears as they tabled. This swellod to the cound of shouting and of sighting, running humans. Tablet studghtened to attention and drew one of the halk-shaped weapons from his pocket. The sereeching volto of Ainsworth reached them and Jerry drew them back into a recess adjoining Bobb cell.

"They're coming this way?" he whispered.

Then came the limping figure of Alissworth running through the corridor with full speed in their direction. The angry voices of his pursuers could be heard not far helind.

"God, Talbot!" gusped the panting Alsoworth, when he reached them, "They're found the arms we took from the militia. Rifles, revolvers and automatics are in their hands."

"Who? The morena?" asked lerry,

"No-our supermen. And here they come! They've gone mad!"

He and Talbot drew back into the recess, with Marcoret and Tony hidden behind them, When the first of the enraged giants came into view the weapons of the two scientists glowed into activity. There sprang forth two of the vicious, gradeling blue flomes and the very appeal about them groaned with the entuing wrench. Four or five of the onrushing attackers vanished into thin air but there came from behind these the spiteful reports of a number of automatics. Ainsworth staggered and clutched at his skinny breast, bringing his hand away covered with blood. He choked and gurgled, then crumpled to the stone floor in a grotesque heap. Bullets and chips from the stone walls spattered all about them and Margaret cowered in Teny's arms. But Talbot stood his ground and again and again his weapon spat forth the bloc fiame that sent numbers of the enemy into that nothingness from which there could be no return.

When all of the pursuers had been accounted for, Taibot knelt over the prostrate form of his partner.

"He's dead," he pronounced gloomily. Then, with an arrogant genture, "But I'll carry on. Our plans must not fail, and I, I alone, shall be master of the world?"

His eyes glittered with fanatical fire and Mar-

garet dag her hend still deeper into the protoeting shoulder. Then Talbot was gone, speeding off in the direction from which the contestants had come-

In the entuing silence a grean from the cell smote their easy as the despeiring cry of a dying man. Margaret turned to the bars with a mean of foreboding.

"Bob! Bob!" ahe called piteously.

But Bob Van Alstyme was past ald or comfort. He lay on the floor of his cell, sprawled awkwardly in a pool of his own blood. A stray hullet had entered his prison and wennded him mortally.

"Guess I'm done for, Sis," he faltered, "Never was asy good anyway. And now yea'll have no more worries about me. Be better for you-for everybody. Tell-eil-"

The message was never finished, for Bob Van Alstype breathed his last on that final word. Margaret stared at Teny in an appay of tearless sorrow. Then she knelt on the cold stone and howed her head against the bars as closely to the body of her brother as nouslike.

Hope and Fear

TONY left her to her grief and tip-toed back to the scene of the recent struggle, where he picked up two subconting purchas where the picktered to the floor when their recent postessors were "removed" by the strange weapons of the scientific exiles.

He likewise filled a pocket with loaded clips of cartridges with which the floor was istrewn. Apparently the energy which made away with the living beings had not taken effect on the metallic weapons and ammonition, even as it had failed in the case of Van Alstyne's silk pyisms.

A feeling of courage permetted his being as he returned to the mourning girl. They were at least not defenceless now and, if things came to the works they could always and their own lives rather than submit to what might even be more unendurable than death.

Gently he disengaged Marguret's hands from the iron bars they gripped so tightly. Gently he mised her to her feet and led her from the scene.

"Come dear," he said, "We can do nothing here and we may he able to save ourselves if we leave."

Unreasing as the followed, evidently too dated with grief to protest. With one arm about here hand, Tany proceeded cautoonly through the paragraph manipather in a cautoful through the paragraph manipather in cautoful and they note a merged at their own flow where all was in deep alience. He half carried the stauthing grif into his own quarters and tenderly assisted for the histore shall are able to prote with the thead buried is a pullow, at the door to avoid development.

He had not long to wait, for there was the sound of a sculle down the hall, then three shoes in rapid succession and one of the supermen came succession ent of a downway to fall in a heap on the Boar only a few doors from Tomy's Another followed, classing a broad hand to his mid-section as he ground his way blindly from the room. With dramping stens and beseething eves he approached

Escape

THE magnificently built creature was quite exideaths on his last less and a feeling of aity for this product of man's cruel increasity surged through Tony. He recordized the superman as the first one who had recovered from the psycho-transference process, the one addressed by Ainsworth as Gorth "Are you hit, Gorth?" he asked solicitoesly.

"Yes," was the painful reply. "Right through the middle. And how my head point! It seems it has always pained since I became two beings."

"Two beings?" asked Tony, in purprise,

Goth fall to his known then sat grouphed against the wall recking to and fra with arms about his storeath in a futile attempt to staunch the flow of blood and to relieve his pain.

"Yes," he said, "Two beings. The real Gorth, who is a manufactured man-produced by these fiends, Aintworth and Talhot, from a less fortunate creature. Then the other me, a poor captive from that great land which is now in the memory that never before existed. This other self has been so enhance_there was a wife two children_mondets ful companions—in that far-away land where all was so bright. And now the pain-the pain of longing that never ceases to tour at this great breast -the pain in the head that can not he referredthe faces that come to torture in the darkness. I en-gladly-

Another victim of Talbot's and Ainsworth's am bition bad paid the price and Tony stepped into his room and obtained a sheet with which he covered the form of Gorth where it had slipped to the floor in its final struggle.

He returned to Margaret, closing and bolting the done habind him. She had recovered her poise and was sitting on the edge of the hed, a and smile on

Tony was about to make some attempt to console the girl be had come to lave so intensely when there was a faint rap at the door, then a quick, indistent pounding.

"It is I-Talbot," came the voice of their captor, "Let me in!"

With pistol ready for say emergency Tony unbolted the door and Jerry Talbot literally fell into the room. He too was mortally wounded and Tony helped him to a large easy shair where he faced the two captives with something of sorrow in his dark 41104

"Bring pen and ink-paper," he ordered, with a

Tony did as he requested, placing the writing staterials at Tsibot's hand on the broad arm of the

"Thanks," continued Jerry, "Tm about to write my last orders. And they are entirely to save you two people where I have so wronged-wour friend Charlie as well. I'll die a hit honnier if I know that at least this much of my sin has been rectified. You can fiv a plane P

"Ves " walled Tony esperie

"Ours is in front, and it handles exactly the same as any standard plane with the exception of the atomic motor which is controlled by a small lever you will find at the side of the stick. But firsthere are the leve."

He produced a bunch of lows which he handed to Tony, denoting the arveral that would be needed. He told them where to locate Charlie, how to reach car that would carry them to the Arizona retreat. how to blow up the turned to forever close the entrance to Subterrania and neal the tomb of his bisated hopes with the monsters of his making, Then he smittly newsod an order to Marcon, the lander of his hand on the surface.

"This will see you safely through," he said, hands ing the never to Tony, "Now, be off, before it is tan late. The supermen and the morons are locked up temporarily, hut none of our doors are strong snowh to hold three for long and without my control they'll take things in their own hands. So make

There was a certain malesty in the bearing of this man who an eccently inflamed with departs of emnice, was now about to pay the supreme negative for his missiends. Tony besitated

"Is there nothing we can do for you?" he asked. "Nothing Leave me at once."

His head dropped and he waved then weakly from the more. Somehow they pitted him; a sense of loss came to them as they took their last look at the dejected figure of the dying man. They crept from the room and started for Charlie's cell.

CHAPTER XI

All's Well

ARD PLATT still nursed a broken leg suscavers beneath the subway tennel. He was growing ignitable from his confinement and sat grammily balars the server of his teltyline-radio with the plaster-encased limb propped up on a foststool. He watched disgustedly the mining operation pictured on the screen and listened disdainfaily to the voices of the workmen as they labored

"Mary," he said, turning to his wife who sat reading only a few feet from him in their pleasant library, "This work the city is doing will get them nowhere. Our friends are irretrityably lost. This boting and digging has been going on for two weeks now and what have they found? Nothing, Charlie and the rest have been swallowed up in the deoths of the carth. Hundreds of feet of rock have been assuranted in every direction from that cavers of disaster and there is no give as to the whereabouts of the twelve bundred people who vanished."

He shock his head mournfully and his wife raised solemn eves from her book.

"You think they will never be found ?" she murmured. This had been gone over by them hundreds of issues before but they never accessed to they of discussing the mystery still in the minds of all of New York and of the rest of the world as well.

At this assort there was the flashing of a small light over the screen of the thelwidon instrument, milicating that a call for Phitt's sambler was being mode. Its leased over and present is the circuit for that dimmed the screen and opened the circuit for and the screen with to picture before the atomiched cyse of Ward and Mary Platt the smilling face of Charle France.

"Hello folks," came bis cheerful voice. And the two watchers poled as if they bad seen a ghost.

"Why-why Charlie," gasped Ward, "We thought you were dead. Where are you?"

"Out in Arisens-just leaving for home. You can send out word that we are safe, three of us,"

The smiling face of Tony Russell now entered the field of vision and with him was a beautiful blonde who Mary recognized as the missing Margaret Van Alatyne. "And the others?" asked Ward.

"All dead-or worse," replied Charlie solemnly, "But it is a long story and must wait until we get back. We're coming by simplane at once."

There was very little further conversation since the adventurers were extremely anxious to start for home. When their faces faded from view, Ward Plast as back in his char with a sessure of furbility.

"Well, it's beyond me," he sud, "But from what they hint it seems that the world is going to be startled by a well-nigh meredible story. In the meantime we can be thankful that these three are safe at least."

"Oh yes," smiled his wife, "A thousand times yes. And you too, my dear,"

And, far out over the desert lands of Arisena, there spot asservant a fort table plane that carried the three spot asservant and table and the second dimension was applieding the plane and giat to be getting away from his recent astivities. Directly be blind then were from and Marguer, hands intertwinds a they gated at the same in countrying all the new life to come, when they would always the together in the land which was forever freed of the more free blow.

THE RED

What Is Your Knowledge of Science?

Test Yourself by This Questionnaire

- What is the difference in the life of the Oneen and the worker bees? (Page 135).
- Why did the nobles of Gobi not realize that their banes were being decomposed? (Page 139).
- 3. How eeuld one arrange from a central point to follow visually the progress of a train? (Page 149).
- By what principle could a cable-less elevator be operated? (Page 153).
- How does the temperature change as one descends from the surface into the earth? (Page 154-55).
- How is it possible to determine the point at which a radio transmitter is located? (Page 103).
- What are the chemical compositions of dismends, samphires and rubics? In what

kind of soil would they be found? (Page 112),

- 8 How can one determine the conductivity of a liquid? (Page 114).
- Why might remaining in a "weightless" condition for some time prove physically harmful? (Page 170).
- Why could not one take a bath in a tab in a space fiver in "free space"? (Page 173).
- How could one gather and hold sufficient last for life in a building in free space? (Page 176).
- What accounts for the value of arrows as a missile in warfare? (Page 124).
- What is the great advantage in modern warfare of attacking large cities? (Page 124).
- What is the propulsion principle of the "recker" ship? (Page 119).

The Problems of Space Flying

Bj

CAPTAIN HERMANN NOORDUNG, A.D., M.E., (BERLIN)

Translated from the German By Francis M. Carrier, 0320 Sy Gentus Indusing, In.

 $T_{\rm HE}$ editor is happy to assume that we have secured the American translations rights for this supertast new work of Captain Norrdang, webknown Gramm cupineer and authority on weeknite.

It is, we believe, the first serious work of its kinds that has approach in print, observe an authority table the prablem of space flying seriously. This may be considered the non-important advoces step to the set of space flying because answerstratumentable exploiters apped test boots on the subject we may be some that the translation of a farmer "pipe dresse" into an acmative far set for atoms.

There is much contained in Captain Noordung's book which we have denoed when not to include, because it goes into the realms of higher and hiricate mathematics, of interest soly to the cogineering froterity and unoblematican.

Caytain Howedang has also considered the technic califies of the space restet, at well as its southensited considerations. His stendown ere, that it softient capital is southly for hulding a racket to browl itso space, that is will be goathed news to build one. And it seems certain that coaver ar later, much a rechet will be kuil for extrabulation spaces.

In the precess orticles, we are satisfy concerned with the more popular parts of Captain Noordung's book, which, in easy stager, acquaints the reader with the supported of free space, is a way that never has been done before.

In the first installment, will be found a tremendous answer of new material, which has more appeared in print-

In the second intribuent there only be found Coptain Novedong's even description of an open-mathing invention—bits our pomer plant, his floating abarroutory and his space living quarters, or work as a weaker of a ther important invention, all of subich are bard ov excellent science and mathematic, and which owner or later, will be transitioned who actuative-

We know that every reader of Scatters Woxeen Scotts will be highly interested in Captain Neordung's book.

In strating the subject Copisin Hourdaws first condiffere students we human know a constribution enabling in to live its the strange and terrible conditions of "enarty spect." He attacks has subject by first considering the autoches on so of "avelgitterates"—the conditions in empty space solver there is so gravity and us proble.

PART I

The Influence of Weightlessness On The Human System

How does the abance of weight affect the limits operating. Experisent is the set of a full the conditions of weight have not more than the experimental of the set of the set of the set of the experimental of the set of

Only by remaining is a weightless condition for a long time might a certain injury result. And this would be due to the fact that important groups of muscles would attophy from disnice and would therefore refuse their services when like should retem to normal conditions (for instance, after the return to the earth). It is however probable that by systematic exercises this could be successfully be Blewise possible to meet this circumstance by proper todinkoul arrangements, as we shall see later.

Freamably the only organ influenced by the absence of weight is the organ of equilibrium in the insure car. And even this would no longer be treeded in blows; for the idea of equilibrium censes to exist in the absence of weight. In every position of the body we than have the same feeding: "we' and body we than have the same feeding: "we' and the surroundings' the floor, coking, and wells of a room may each be considered as sameth a wall.

The impression of these very unweak conditions might indeed, especially at first, produce a serious mental injury however. There is also the influence directly exerted on the pervous system by the absence of weight. The chief sense-impressions mvelved are as follows: the effect already mentioned on the organ of equilibrium, the feeling that there is no longer a supporting pressure against the body, and certain changes in the sensations of the mucks, and ionits.

Now this consplority of feeling is thus far known to us on earth any where we full, since (as has been pointed out) here on earth we can only experience couplishessman in thilling. Therefore, is splore are maxibly that is connected with falling, an well as all the other metal states caused by this extraordinary situation. And this is true even though the absence of wight is not encoded by fulls extrate absence of wight is not encoded by fulls extrate absence of wight is not encoded by fulls extrate absence of wight is not encoded by full ing the is caused in other ways (as for example in the applied laters).

Certainly if is to be expected from pervious emperience (of such persona as a wintern, she's impury, etc.) that through babit it will be possible to endere wightlessness even in its mental relations, more and more as one realizes that "weightlessness" and "billing" related to be connected. It may even be eliminated by a gradual diminution of the facility of weight.

The German scientist Oberth has made a deep study of all these questions. Using his results, we may commarize as follows: though the absence of weight may be endured for a long and maybe infinite time without serious physical injury, this cannot be stated with certainty regarding mental efforts, but it may be considered probable, at least, The course of mental impressions is presumably approximately as follows: first, a fociling of worry fat least in the case of rapid and direct entrance into weightlessness); the brain and the sense organs net extremely intensively, all thoughts being strictly objective and both quick and logical; time accuss to pass more slowly; then there sets in a peculiar lock of sensitiveness to pain and discomfort Later these throomens grow less and there remains only a certain feeling of increased huoyancy and freahlates the nerves, until at last after long habituation the mental condition also becomes entirely normal.

CHAPTER II

The Physical Behavior of Bodies In The Absence Of Weight.

To be able to form an idea of the general phytical relations prevaiing in the observed of gravity of the earth, which draws all makes down to the ground and thus "branage" them with a orchain regularity, is as lenger effective. Therefore, bodies move in their acceleration downs, following line, will searce residence a tops them. They "arrange" themselves, therefore, only accelling to the forces operating between them, in them, and accelally pertaining to them (molecular, electric, and magnetic force, mass attraction, etc.)

As a result of these extraordinary suppositions we must coaclude that all bodies unaffected by gravity show an entirely different behavior and that our own acts in consequence must be performed in a manner entirely miller that used hitherto.

That human boorneston can be larger the place by "welling". This is the vector this much propose. In the absence of the pressure of weights there is no friend much the sole of of the show. They accountly stilds even to the amouthen its. The protocol absol does must cither pill nocle soll along a surface by the hands, for which purpose the walls in the specier preservables (resembly arrays links with even to the park of the size to it.

At the same time it may be hard for the novice to connerve his strength property. This is however necessary. Since a person strikes the opposite wall of the noom with the full force of the initial prash, to much seed in this will lead to regioful bruitses.



Fig. 1-a men is the assessed in these to whit we consider provide and which is support strengthy. The write an considery model and provided with inscidential. No form dury provide, Le-Wroten with interacting the inscident consist, we Le-Wroten to about the light. O-Optimize for the controlline is and. I--Wroten by public the light. O-Optimize for the controlline is an in-

Therefore all the rooms used by persons, more especially in the corners and on all sharp edges, must be very well padded.

Mercine by passing can also be concerned to the operability if is course in the coper, that is to any consider the observatory. (to be described latery) there are an entry of the concerned of the contineous and extend travel to the doubly empirications and extend travel to the doubly empirication of space. This, there there are an a concerner of space. This, there there are an a concerner the no income the parameters of the space of the space. The context of the space of the space of the space there to be an enable of the space of the space there has its meaning over, in the absence of space the space of the space o

Bodies Inside a Room

SUNCE holies new exmote be present as they imports by their weight, it is of course unders to "hange up" or "hy down" an object anywhere. It would have to be guided to its imports or held by magnatism or some other forces. A hody can be kept in politics only if it is fatanch assemblare or still bester if is status up. Therefore the recomdistances bears within a loss about the walls.

Clother ratio, namely, etc., Disrwise tables, at least for loying object down, henceme anders pieces of fermitars. But also seas, henches, not would have to the Manual for them is need to net float away from them loss once overset as the loan would not the the Manual for them is need on set to float away from them loss once overset as the loan survenuest. Whole would have its abuilton "standors of the state of the state of the state of arthritys it is treasony to be fastered to the site of arthritys of around the state of the state of the state of arthritys of around the state of the state of the state of a state of around the state of the state of the state of the state of around the state of the state of the state of the state of around the state of the state of the state of the state of around the state of the state of the state of the state of around the state of around the state of the state of

But in spite of this irregularity in the behavior of freely movable bodies caused by the absence of weight, the manner in which they come to reat is not absolutely arbitrary. The general law of mass attraction is valid even in the observatory in



Fu, DevAppropriate for melting is a weak-line modeline. How suggest to instance in the value such that, see, on he ather to remark at it was a needed on her the second drow a must be fouring in from the presence of the second drow a must be fouring in from the

space, and is reason all messes to be attracted inward the common carter of gravity. Because of the comparison mail to be a straight of the event bits takes place with a very small academistics, means of propulsion takes hence. That at host the bodies which are not futured down, still meet an one of the walls and either remain three or it fitting space their comparison of the star bar. The proof was great compth, first back and bach be, the deriver of clarifician, mail their correspondences of the deriver of clarifician. tion is gradually exhausted and they come to rest at one of the walls. Thus, in the course of time, all bodies itselfy floating within the limits of the space flyer will settle at the walls and particularly as near as possible to the common centre of gravity.

Since this process however may extend over



haurs or even digit and since even a weak current of air would suffice to disturb it or to detodge and mix up again the bolies already come to rest (but chiging only very locady to the walls), from a gracical standpoint there is really no regularity in the motion of the weightness masses.

This has point becomes nodesable in an appetically supjetusts assume when it is a quesciss of bodies within gets into a noom in considerable name. The second second second second second second likeling the air through second second second second diverse. But it has an even of the second second diverse. But it has second these settings them is note. In fact, all bodies that settings them is note. In fact, all bodies of weight is a room, the formation of the second s

The articles of clothing also go on a striluc; for they no longer long down, eros if made of the heaviest fibelic. Therefore clocks, dresses, aprons, and the like are useless as clothing. At my movement of the body they would flow quite irregularly in all directions.

In the weightess condition, the behavior of liquids is expectably peculiar. Under normal conditions, following the force of gravity, they of corresoft the depect places and then fit thereadwas completely into whatever holds them (the vessel), the gravant, etc.). But what there is no weight, the gravant, etc.). But what there is no weight, the gravant, etc.). But what there is no weight, the gravant, etc.). But what when there is no weight, the gravant, etc.). But what when there is no interval to the state of the latter.

The Behavior of Liquids

L IQUIDS in a weightless condition therefore take on an independent form, indeed the simplest form known to geometry, the sohere. This requires the assumption that they are subject only to their own force of cohosion, that is to say, that they touch no body which they can "wet."

It is now clear why water, in falling, forms exattly in drops: for in this condition, as was said before, it is weightless and therefore takes on a spherical form, which the resistance of the air distorts into clongated drops.

If the liquid is in contact with a body which it



wes, beides the forces of enheisen (the transiency of the particles of water to eling together) there are also forces of adhesion (the tendency of the water to eling to a surface that if "wett") of much grasine power. The figuid will then be inclined to follow the hitte and to spread out over the surface of the body, in other words to cover it with a more or less thick layer.

Accordingly, in space, for example the water in a partly filled both will not occupy the bottom of it but, laving the centre empty, will sack to specal out over all the walls of the vessel. Mercury, on the other hand, which does not wet ginas, forms in a ball and remains floating in the vessel.

In both cases it makes absolutely no difference in what position the bott is held. Therefore it cannot be empiled in the usual manner by simply typing it. For this purpose it is necessary to do one of the following things: either pail it back quickly (that is, accelerate it backward); or pash it forward in the direction of its month and unforward in the direction of the month and unto hatty waves it in a science.

In these cases the liquid will come out of the bottle because of its force of insertia (in the last instance because of the constrilugal force), while the are is stocked in at the same time, just as an the graging in the normal pouring from a bottle. The must be assumed that the sock of the bottle is stolaufilied force so that the entrance of all can acaufilied to force so that the entrance of all can acsufficient force while the water is astenisming out

It is interesting to note that the above described method of emptying a bottle by pulling it back or stopping it, there being no weight is fundemandly as different from the powing set by intrinsity the betty and down in the case of the memory conduction of weight on cases. In these from the second of the second second second demandly of the second of poling back second demandly of the second of the second second second demandly of the second of the second second second demandly of the second of the second second second demand second second second demandle of the second second second second second second demand second second second second second demandly of the second second second second demandly second second second second second demandly second second second second second demandle second second second second second second demandle second second second second second second second demandle second s

After coming out of the bottle the liquid will fixed off in the room in the form of one or meter spheres, similar in appearance perturns to coxpbabbles moving through the air. Finally such feasiing taberes of liquid must scale are of the will-

If they can wet it, they will seek to spread out

Otherwise a sphere will be broken up by the short, like a linging drop of mercury, into numeons multile spheres which will float along the walla to essentimes perchaps out in the room, superturne joining gapels and, levelding up, suith their force is finding enhanced and the active around of light course to rest, united into one or more spheres remarks regarding processes taking place in a bottely.

In view of this unusual behavior of Equida it is impossible to use any of the ordinary wesels, such



Fig. 5.-Sininging a water britle in a strike in anoth if it is the abarces of weight. On making the liquid scenage and would not destribute haad in swedch on the indicated scenage of functor with

as bottles, drinking glasses, same pans, jugs, wash hasina, etc. In fact it would be hardly possible to fall them. But even if this could be done, for example if a hash were prepared, we could not use it is a cory short their the water would disappoint as by aprending from the tab to the malle of the room or by aprending from the tab to the malle of the room or by acting on these is otheres.

For holding liquids, the only suitable devices would be takes or balloont made of robber with some sost of icop-cock, or vessels with a bottom moving like a pieton, etailine to a optit-gens) for only soch ein be filled in a simple manner and convesiently emplefiel. This last is accomplished by aquesting them or by making the plunger, to force solidad to as to optimal the core of the the balance dilde is as to optimal the core of the the balance dilde is as to the stop-cock.

Cooking and Esting

SUCH compressible veasets (provided with a suitable mouthpicce) would have to be used for drinking, instead of the useless vessels of ordinary life.

Furthermore the different implements used in enting, such as plates, dishes, spoons, etc., would



be workless. One carebas movement, and we would have to chuse their portage precises contexts, which would be floating through the room. Extrang would be possible in only two ways, either by consuming the food in solid form like bread or by drinking it in liquid or sense-liquid condition by The cools accordingly would have to prepare the food in these ways.

And causedly the cock would have particularly great difficulties to overcome in his inpertual work. Even these, however, could be conquered. Thus, for example, detries could we would will be a set of the set of the set of the set of the decision of the set of the set of the set of the decision of the set of the set of the set of the decision of the set of the set of the set of the could be outdot be set of the set of the set of set of the set of the set of the set of the set of set of the could be set of the set

It would be absolutely necessary to give up washing or bathing in the usual memor? Cleaning could be done only by rubhing with damp cleths, sponges, and the like, rubbed with scop in case of need, however satisfactory or not this way might be.

The more closely we regred the matter, the more clearly we must receptize that it is for from an soulloyed pleasar to be able to fost about ble an angel, freed of all bardensance weights—errn if we carselves find this condition yokannt. For weight does not simply hold us down, it forces down all other bodies as well and keeps them from moving about in confusion, without any regularity, if chance has set them free. The force of gravity is perhaps the most important power for order in our existence. Where it is absent, everything is, in the trust sense of the words, upside down, and has lost its hold.

CHAPTER III The Nocessity of Readjustment

H URAN Wit can exit only in the presence of preperty composed poston with . In the first poste, the process of living is a presence of the second second second second second second transformer of any second to a construct second sec

To accouplish this the human brings in space must always be surrounded by a room of some sort start is or all iddes and absolutely articipt, since only in such an arrangement can the air be kept at the proper pressure and in the proper composition. This must be done by artificial means and actually can be done by automatic devices.



In substance it is a question of nothing but a rather large enclosed space, ranging in size from a room to a group of whole buildings, such as might be needed for a rather long sojoarn. The walls would have to be built on the principle of a stream boiler, since they must resist an interior air pressure of one atmosphere (16.7 lbs. per square inch) in excess of the cupty space outside. They should therefore not only have the requisite thickness but should also present so far as possible only curved surfaces, since flat ones need a special strengthening or reinforcing on account of the pressure. The nitrogen and especially the oxygen needed for the artificial preparation of air would have to be kept on hand in large quantities in special tooks in a liquid condition and be continually replaced from

To be able to remain centrife such enclosed rocers in space, one would have to use an air-tight suit, the inside of which is automatically provided with air by an apparatus carried along. The devices, that is, would be somewhat like the well-known diving



suits used under water. More details about these will be given later.

It is clear that the problem at hand concerns muth the same things as remaining under water, in submarines and in diving. On the basis of ample experience already collected in the matter of artificial production of air we may say that this question is completely answerable, beyond a double, for a solution in mane.

Eternal Silence Prevails in Space

THE air bas not merely a direct importance for sitiable presenter) indicating and the production of a suitable presenter) indicated in the state grantest significance, since it influences the natural phenomena most important for the development of life-hort, light, and scend—in the historet degree.

Sound is a vibratory process of the air and can never occur in a vacuum. Therefore ctemal silence provais in space. The firing of the heaviest castion could not be heard, even at the dightest ditance. Likewise sorral communication by speech would be impossible. Of ourse this is not true of enclosed, air-filled resum, within which the preparties of the air can be artificiably maintained as on



Fig. 10-minipuling a liquid dratology in the absolute of weight one ho done minipalertorily only by squeezing out or president and in comments. Fig 11-in thinks a find making bollaras films under protests die cherente film aus finnandere winn die

carth. But it is true when one is out "in the open" (in the space suit). There, communication by speech would be possible only by telephonic means.

Sumhing in the Darkness of Night

L IKEWISE the conditions of light are new use sensitily always. Naturally the idea of day is connected with the notion of A, blue sky or file days of the sensitive of the sensitive of the sensitive frequencies. But all these phenomena are simply as noncompares of the presence of the sensity. Bayer regulate, and thereby diverged in 2d directions, producing at the same time the impression of the blue coloning of the day. Thus the all provides a material and absorbing irreducing the sensitive the their sensitive and thereby diverged in 2d directions.

In space all this is not possible because at it had backing them. At the same time there is an ord to the idea of day, taken in the strict store of the word. The formament at all times apports is deepert black, out of which the counties stars ables extraordinarily biffining by with an even calm light, while the indescribably bilinding power of the sam for armoses everything edse.

Yet, once we turn our larks to the nu, we have the improvement of night, that to the nu, we have find a bady turned of night, while under its rays the olds of a bady turned toward it (consider, for example, as unbecking shines beliantly, on the ide turned may the darkness of night pervails. Not abaolate darkness 1 and side the stars are shining, run if the area in a side of the stars are shining.



reflected light the side of the body lying in the san's shadow. Still the light that is obtained is always hand and direct light, never mild and diwerging as on earth.

Unlimited Vision

It many respects, however, the absence of all fast advantages for the confilment of vibility in space. It is indeed generally known what a great influence the comparation of the air exercises on distant vision (e.g. in the momenting, on the correspondence). Even on either absence of the light rays are always best in it, e, because of the light rays are always best in it, e, because of the light rays is absenced.

This last circumstance is very disadvantageous on earth, for the carrying out of distant observations of all kinds, especially in astronomy. Therefore observatories are creted whenever possible on high points on mountains, betwase at such points the aris is relatively the clearest. But even then the limitations are soon reached. It is not possible on earth to keep the fixed stars from twinkling (which is ensated by nohling bat the presence of our ally). Similarly it is not possible to eliminate the diverging smallph (the blue of the sky), ercesab do by the issue of all and very transferences.



observations during the day. This latter difficulty greatly impodes the study of such heavenly bodice as are not visible in shooletan night, such as Mercury, and Venus, and by no means lastly the sun itself.

All these disadvantageous electromistances cease in the trappy space of the universe; nothing now westerns the luminosity of the heavenly bolics, the fixed stars no longer twinklet, observations are not imposed by the libre of the sky. At any time, quality favorable and practically limities possibilities are differed; for now that three is no optical bilities are differed; for now that there is no optical size as we desire.



Heatless

EXPECTALLY significant is the informe costeneral by the subscense of air on the heat cositions of engry space. Since heat, as is incore to day, is satisfy one is defined cossibles of median of the smallest mixerial particles of which the subthere is as beint unknown on matter in general. Where there is none, three can therefore be no instant from a perturbal analyside parts in "batlags," because there is no sair. Whether this is also traver of the widely held widdles into more its filled with real matter, even though divided extremely finely. If space is absolutely empty of material, the idea of temptrature accordingly loses its simultance.

This two does not controlled the fast that the hot rays of the sum and of the versions fixed atms traverse goes in trenendous quantity: for hot rays the structure are and what Tay are another that the interaction are and what Tay are another that the interaction are and what the provide the the relation of the structure of the structure of the model were, they have, however, is lead to are control of the structure of the structure of the model with we call hear, where they raise any they (that is, destroyed) by the nutries of the structure of

Thus the temperatures of transparent or highly pethode bodies are raised only a little even with strong heat radiation and nepsen almost insensitive to heat rays. For in the case of transparent bodies the rays for the most part pass through the body, in the case of oblished bodies the rays are receiled.



In either case the rays are not weakened or dostroyed, therefore they do not give up any of their energy. On the contrary, if the surface of the hody is dark and rough, it can orlither allow the rays which satike it to pass through nor reflect them; in this case they must be taken up and cause therefore the beating of the body.

This phenomenen, however, holds, not only for the reception of head, but also for emitting it by reliation the brighter and more pollukation the surface of a body is, the leas its power of realisition, therefore the longer it retains its head you the a dock rough surface it can cool off very rapidly by rediation.

The processes of heat radiation of different types occur chiefly on dull black surfaces and least on bright polished ones. This circumstance would make it possible to influence the temperature of bodies in space at will, simply and extensively.

If an object in space is to be heated, the slot toward the sun is made dull black and the opposite side bright and polished; or the sinds aide (the slide away from the sun) is screened from space by

⁴ Hins Mr. Moredney menus is this possereph is then given conner of shifty hald here (ar our six days) housans assure has an ensemble in its disk of no housand the molecular action three is article at the housan. But here are a manufactured over r that from the same or a our do a mixtured help is hald support again.

means of a mirror. If a concave mirror is used for this purpose (concave to the sun), which directs the sun's rays on the body in proper intensity, its temperature can be raised to a very high point

It on the contrary, a body in space is to be conclust to swarp with small results and the relation of the system by sensation of a mirror, from the scattering of system by sensation of a mirror, from the scattering of the sense of the sense in the scatter is the space constantial by radiation. There would be no tertionly (a shappen on which would be some that and a scattering constraints with the surrounding stab). In this way by reflecting all the start of scattering constraints with the surrounding stable. The start of the start of the impaction between this point could not be start in practice, boxever this point could not be start would be based to set the start of the start start of the start of the start of the start start of the start of the start of the start start of the start start of the start of the start of the start of the start start of the start of the start of the start of the start start of the sthe start of the start of the start of the start of the sthe sta

By using the above described plannomma of radiation it would be possible not only to obtain and preserve in the observatory in space the heat necessary for life but also to produce extremely high and low temparatures and accordingly very violent changes in heat.

CHAPTER IV

The Observatory in Space

THR physical hypotheses and passibilities of apace are now known to us. Now for a description of the manner in which our observators in space must be arranged.

In order to simplify as much as possible the smount of work to be deen in space during the construction of it (which can be done only in space suits), the whole structure and its equipment must first be entirely completed on earth and tested as to its denendability. Furthermore it must be as



constructed that it can be separated into its component parts very easily, if possible into single completely equipped cells, which then can be taken by sonce ships into space and there be associated again without too much difficulty. The materials used must be as light as possible, to lessen the cost of lifting them into space.

The structure ready for use would in general appear as follows: primarily, it must be capable of being made air-tight, against space, so that normal



air conditions may be artificially maintained within. To be able to localize the huxard of the except of air, which would take place in the event of a leak (due for example to a blow from a mettor), proper use is made of division into compartments as in altip-building.

Since all the rooms are connected and filled with sin, trured within offers no difficulties. The outside, empty space, may only be reached by means of the no-called "wir lock." This device, which is well known in submarine use (in estamon, diving leids, etc.), consist scentially of a small chamber becel, or explore the scential of a small chamber beto the interior of the structure and the other leads to the catile.

If a perton for example whites to leave the observatory (in "boke mit") than verting a spacesult, he passes through the inner door into the lock (the outside door of white must at this inner be closed). Now the larner door is closed and the air generate in the lock is sittle of shown of or let out, after which the outer door may be opened and the instate of the observatory (to "lock is"), the oppoalter processing to be a state of the oppodite records in concease.

The detunning latter for the operation, and accordingly for the equipping of the observatory is the fact that there will be about the map of the available for blenc to power bot the map of the however will be available at lancet any time and in any amount. All materials, appeading these necessary for life, such as it rand water, must there are being the interval of management in the the londmarked principles of management is no which all materials, and from the such rays must which all materials, and from the such rays must be obtained the energy available on the spot in great assounts and utilizing it in most extensive fashion to oparate technical devices of all outs, exhausted materials again available to make the exhausted materials again available for no.

This can be done either directly, by use of the lighting and heating power of the run, or indirectly, by changing its radiated best into electrical entray.

The Sun Power Plant

THE was power plant serving for this has parflops forms one of the most important parts of the equipment of the observatory in space. It povides direct excerneds, is farnished with a storage battery, and resembles in principle a normal steam unbike system of the same kind. There is however this difference, that is the case of our amphy which are concentrated by occurrent minutes that at an efficiently high temperatures, and the coelage of the cooleance tables place merely by such



Fig. 18-Dispute of particula,

tion of heat into space, for which reason it must be exposed to space and shielded from the sun.

According to what was said before, this requires that both the steam producer and the condenser be colored dull black on the outside. Essentially they both consist only of saitably long metal piper twisted everywhere, so that even in the weightless condition the inner surfaces are constantly and saficircuity models by the handli flearning theorem.

The liquid is in constant circulation. Utilize the ordinary proceedure, the liquid such here is not water (or steam, as the case may be) but a nederes it possible to keep the temperature of the casdenset so kew that the extraordinary coeffing power of space can be really utilized; also any chance would not make the mercinan in these immers.

Since it depends only on the size of the concave mirrors used how much energy is taken from the radiation of the sun, a mitably efficient construction of the power plant is alone enough to provide the observatory with constant and tremendous amounts of electrical (and therefore mechanical) energy. Since also best, even in great amounts, may be obtained directly from the san's rays, and even the lowest temperatures of cold may very



simply be reached by radiation into space, all the preterpinistes are available for operating technical devices of all sorts.

The Light Supply

THE illumination of the observatory is most sample to arrange; this requires almost no mechanical devices but can chickly be accomplished by the direct action of the sun which indeed whites there all of the time, harring occessional brief pasages of the observatory through the shadow of the earth.

For this purpose the walls have round cornines



Fig II - Schermatz fragman of variables grown The coolst and hanted tables on he section to Fig the best of K.

More the port-holes of a ship, glassed in sir-tight by strong-iens-shaped windows. By having these milty while or capage and by properly selecting the kind of glass care may be taken to free the unlight of all injurious corrolitations of rave, inst as it is filtered by the layer of air. It then enters the observatory in a divergent condition and lights the inside with normal daylight.

Many of the port-holes are provided with special mirrors by which the rays may be directed at will on the ports m question.

There is also arrangement for electric lighting, using the current from the sun power plant.

The Air and Heat Supply

THE beating of the observatory also takes pisce by direct use of the sun's mays, indeed on the principle of heating the air as it is prepared for me.

For this purpose all the air in the observatory is in construct circulation between the rooms in which it is needed and a purifying apportune, where it is elanod, raske fresh spain, and warmed. A great electric ventilator provides for the maintaining of this motion. There are also pipe-lines which are successry for this. They enter the different rooms by readil accreated openings.

"The airing system like the appartnets for reserving air is suggested by Overh," Print the air down of the system of the system of the system of the by radiation, airing proces, is which lits targerstarts is proceed airing which the generative comparation the carbon doubted. That the air from through a burning pipe, based by the concentrated may of the carbon doubted. These the sime ways the properties of a core of the research through a properties of a core of the research through the properties of a core of the research through the properties of a core of the research through the properties of a core of the research through the research of the second properties of a core of the system of the second properties of a core of the system of the second properties of the research of the observation; "

By this process nothing is replaced but the accore consumed in breathing, consequently noth-



ang etc has to be supplied from the corth. The unused continuums of the air (expecting) the entire nitrogen content) remain in constant use. Since the outer walls of the observatory have no share in the leasting while takes place at the name time, they must be prevented, as of n as possible, from giving out heat by of the entire attucture is made absolute winnor these.

The water supply, too, must be used as oco-

somically as the sir. All the water after use is collected and particle for reuse. Great distillation apparatus aerves for this purpose, the waperings and later condensing of the water being effected in a similar manner as was described in the account of the run power plant that is to any, in pipes, some heated by concentrated sunbarns, some cooled by relative in the tone.

Distant Communication

THE arrangements for long distance communication are also very important. This may be affected either by phototelagraphy, by means of binkers, electric likets, search likets. colored



slides, etc., or electrically by radio, or even over wires, within the limits of the observatory.

In communication with the earth the use of phototelegraphy has the disadvantage of being unreliable, since its use depends on the station on earth being free from clouds.

Therefore the observatory possesses also a power erail wake attacks, making possible, as any Chenerail wake attacks, making possible, as any Cheneration and the observation of each of the layer of the or major stress is determined by the stress back directed waves and sufficiently high transmission energy. This appears to offer no press back directed waves and sufficiently high transmission energy. This appears to offer no press back directed waves and sufficiently high transmission energy. This appears to offer no press by the san power plats in any deback amounts and also the construction of any type of a neurons and the construction of any type of a stress and the same power back in any other same pression.

The Means of Establishing the Observatory

FUNALLY, special rotary motors and recoil deritors are provided, which arrve both to turn the observatory in any desired direction and to influence its condition of motion as neaded.

This possibility must exist in the first place in order that the observatory may be kept in the desind relation to the earth or in the necessary position with respect to the sum's mays. For this purpose not only must all impairs to motion, (coming from outside the system,) which are inevitable in the mass of visits by ascent fivers he balanced at all times, but also the influence of the earth's rotation about the sun must constantly be kept in account.

On the other hand this is also necessary is order to allow the observatory to perform its special duties, which will be spoken of later, since for many of these its position in space must be changeshie at will. Lately, at times there may occur the secessity of changing polytion to regards the surface of the surface.

The rotary motors are normal direct current clearing motors, but they have the highest possible number of turns and a relatively large armstures. Special brahest make it possible to decrease or check their speed as quickly as may be desired. They are built into the clearentary in such a way that their prolonged mois of rotation passes through the centre of gravity of the building.

If such a rotary motor is started, at the same time as the rotor (or armsture) the stator (the part of an electric motor ordinarily motionless). can be made to tern and along with this (if they are fixed) the entire building connected with it. The movement will then be around the axis of the motor-of course in the opposize direction to the rotor and much more slowly, because of the difference in mass-this motion will continue until the motor is stooped again. The general rate of motion will vary with the number of turns given. (In the previous case it is a question of a "irce system" in which only the inner forces operate.) Since moto each other, like the coordinates in a right-angle system of three dimensions, by their cooperation it is possible to swing the building in any desired

(To be concluded)

The Boneless Horror

(Continued from page 141)

interesting levers and mechanisms, the use of which was hard to determine,

Taking a lot of the jewelry with them, they sought civilization to secure help in the explocation of the city. When they returned, a freshet of the Colorado had covered the opening of the tunnel with sand, and they were unable to locate it.

Thus died the great land of Mo.

The fair county of Alkneik had no cannics. It into day for pictures and art. From Finlan to the shored of America it by in the smalline. Then one day a confinement across the globe was destroyed, large faild waves subid from core as to the other and audicity the continent of Alkneik was availlowed up the water of the Atlantic Ocean, and, then, a kindly lowed people paid the picto of the horizont up the water of the Atlantic Ocean, and, horizon the state of the atlantic of the failed horizont days and the shored of these great lards.

Where Gold once ruled supreme, now rule the Himalayan. These mominins, the greatest in the workly, run mintecen hundred miles from next to weat and an average of minary miles frem merits to north. They cover a total of one hundred and aixly bioannal square miles. Of these runnarises, the greatest pair, Mosar Diversa, reaches agowed to forty fest advect the set level. Immessis sentime of these momanian are inaccessible to modern man. Mount Diversit remains uncequeed.

Hidden in the tops of these mountains, unknown

to man save by tradition, lite the tanking applied to the sole Empire of Gebi. Ball frozen Tarrar, intest riddom Lamas, harbariant of every dascription great people. Even the uncovery of their former great people. Even the uncovery of their former of lowers and beaused years. If they are soled how these always heat here. It have readed they know here always heat here. It have craft they know here always heat here. It have craft they know here always heat here. It have craft they know here always heat here. How craft here have the pleasant country for ridd holds to live in H How could be playnes of the hypothese here also and here

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On the floor in front of the Emperor, lies the body of Heracles, dead of a dagger, thrust by the aeroous hand of the women beloved by the Emperor. The body of the physician, frazen, decays not

Neither does the body of the beloved woman.

And, frozen in her body, lies the unborn Prince of Gobi, last of a royal line that dared all for their hatred of a bitter eveny.

Thus perished Gold.



ASTRONOMY-METEOROLOGY

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