

# Hobbyist

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by Eric Frank Russell

THE SHIP ARCED OUT OF A GOLDEN SKY AND LANDED WITH A WHOOP AND a wallop that cut down a mile of lush vegetation. Another half mile of growths turned black and drooped to ashes under the final flicker of the tail rocket blasts. That arrival was spectacular, full of verve, and worthy of four columns in any man's paper. But the nearest sheet was distant by a goodly slice of a lifetime, and there was none to record what this far corner of the cosmos regarded as the pettiest of events. So the ship squatted tired and still at the foremost end of the ashy blasttrack and the sky glowed down and the green world brooded solemnly all around.

Within the transpex control dome, Steve Ander sat and thought things over. It was his habit to think things over carefully. Astronauts were not the impulsive daredevils so dear to the stereopticonloving public. They couldn't afford to be. The hazards of the profession required an infinite capacity for cautious, contemplative thought. Five minutes' consideration had prevented many a collapsed lung, many a leaky heart, many a fractured frame. Steve valued his skeleton. He wasn't conceited about it and he'd no reason to believe it in any way superior to anyone else's skeleton. But he'd had it a long time, found it quite satisfactory, and had an intense desire to keep it intact.

Therefore, while the tail tubes cooled off with their usual creaking contractions, he sat in the control seat, stared through the dome with eyes made unseeing by deep preoccupation, and performed a few thinks.

Firstly, he'd made a rough estimate of this world during his hectic approach. As nearly as he could judge, it was ten times the size of Terra. But his weight didn't seem abnormal. Of course, one's notions

of weight tended to be somewhat wild when for some weeks one's own weight has shot far up or far down in between periods of weightlessness. The most reasonable estimate had to be based on muscular reaction. If you felt as sluggish as a Saturnian sloth, your weight was way up. If you felt as powerful as Angus McKittrick's bull, your weight was down.

Normal weight meant Terrestrial mass despite this planet's tenfold volume. That meant light plasma. And that meant lack of heavy elements. No thorium. No nickel.

No nickelthorium alloy. Ergo, no getting back. The KingstonKane atomic motors demanded fuel in the form of ten gauge nickelthorium alloy wire fed directly into the vaporizers. Denatured plutonium would do, but it didn't occur in natural form, and it had to be made. He had three yards nine and a quarter inches of nickelthorium left on the feedspool. Not enough. He was here for kees.

A wonderful thing, logic. You could start from the simple premise that when you were seated your behind was no flatter than usual, and work your way to the inevitable conclusion that you were a wanderer no more. You'd become a native.

Destiny had you tagged as suitable for the status of oldest inhabitant.

Steve pulled an ugly face and said, "Darn!"

The face didn't have to be pulled far. Nature had given said pan a good start.

That is to say, it wasn't handsome. It was a long, lean, nut-brown face with pronounced jaw muscles, prominent cheekbones, and a thin, hooked nose. This, with his dark eyes and black hair, gave him a hawklike appearance. Friends talked to him about tepees and

tomahawks whenever they wanted him to feel at home.

Well, he wasn't going to feel at home any more; not unless this brooding jungle held intelligent life dopey enough to swap ten gauge nickel-thorium wire for a pair of old boots. Or unless some dopey search party was intelligent enough to pick this cosmic dust mote out of a cloud of motes, and took him back. He estimated this as no less than a millionto-one chance. Like spitting at the Empire State hoping to hit a centsized mark on one of its walls.

Reaching for his everflo stylus and the ship's log, he opened the log, looked absently at some of the entries.

"Eighteenth day: The spatial convulsion has now flung me past  
rotalrange of Rigel. Am being tossed into uncharted regions.

"Twentyfourth day: Arm of convulsion now tails back seven parsecs.  
Robot recorder now out of gear. Angle of throw changed seven times  
today.

"Twentyninth day: Now beyond arm of the convulsive sweep and  
regaining control. Speed far beyond range of the astrometer.  
Applying braking rockets cautiously. Fuel reserve: fourteen hundred  
yards.

"Thirtyseventh day: Making for planetary system now within reach."

He scowled, his jaw muscles lumped, and he wrote slowly and legibly,

"Thirtyninth day: Landed on planet unknown primary unknown, galactic  
area standard reference and sector numbers unknown. No cosmic  
formations were recognizable when observed shortly before landing.  
Angles of offshoot and speed of transit not recorded, and impossible  
to estimate. Condition of ship: workable. Fuel reserve: three and one  
quarter yards."

Closing the log, he scowled again, rammed the stylus into its desk grip, and muttered, "Now to check on the outside air and then see how the best girl's doing."

The Radson register had three simple dials. The first recorded outside pressure at thirteen point seven pounds, a reading he observed with much satisfaction. The second said that oxygen content was high. The third had a bicolored dial, half white, half red, and its needle stood in the middle of the white.

"Breathable," he grunted, clipping down the register's lid. Crossing the tiny control room, he slid aside a metal panel, looked into the padded compartment behind. "Coming out, Beauteous?" he asked.

"Steve loves Laura?" inquired a plaintive voice.

"You bet he does!" he responded with becoming passion. He shoved an arm into the compartment, brought out a large, gaudily colored macaw. "Does Laura love Steve?"

"Heyhey!" cackled Laura harshly. Climbing up his arm, the bird perched on his shoulder. He could feel the grip of its powerful claws. It regarded him with a beady and brilliant eye, then rubbed its crimson head against his left ear. "Heyhey! Time flies!"

"Don't mention it," he reproved. "There's plenty to remind me of the fact without you chipping in."

Reaching up, he scratched her poll while she stretched and bowed with absurd delight. He was fond of Laura. She was more than a pet. She was a bona fide member of the crew, issued with her own rations and drawing her own pay. Every probe ship had a crew of two: one man, one macaw. When he'd first heard of it, the practice had

seemed crazy but when he got the reasons, it made sense.

"Lonely men, probing beyond the edge of the charts, get queer psychological troubles. They need an anchor to Earth. A macaw provides the necessary companionship and more! It's the spacehardiest bird we've got, its weight is negligible, it can talk and amuse, it can fend for itself when necessary. On land, it will often sense dangers before you do. Any strange fruit or food it may eat is safe for you to eat. Many a man's life has been saved by his macaw. Look after yours, my boy, and it'll look after you!"

Yes, they looked after each other, Terrestrials both. It was almost a symbiosis of the spaceways. Before the era of astronavigation nobody had thought of such an arrangement, though it had been done before. Miners and their canaries.

Moving over to the miniature air lock, he didn't bother to operate the pump. It wasn't necessary with so small a difference between internal and external pressures. Opening both doors, he let a little of his higher pressured air sigh out, stood on the rim of the lock, jumped down. Laura fluttered from his shoulder as he leaped, followed him with a flurry of wings, got her talons into his jacket as he staggered upright.

The pair went around the ship, silently surveying its condition. Front braking nozzles O.K., rear steering flares O.K., tail propulsion tubes O.K.

All were badly scored but still usable. The skin of the vessel likewise was scored but intact. Three months supply of food and maybe a thousand yards of wire could get her home, theoretically. But only theoretically, Steve had no delusions about the matter. The odds were still against him even if given the means to move. How do you navigate from you don't know where to you don't know where? Answer:

you stroke a rabbit's foot and probably arrive you don't know where else.

"Well," he said, rounding the tail, "it's something in which to live.

It'll save us building a shanty. Way back on Terra they want fifty thousand smackers for an all-metal, streamlined bungalow, so I guess we're mighty lucky. I'll make a garden here, and a rockery there, and build a swimming pool out back. You can wear a pretty frock and do all the cooking."

"Yawk!" said Laura derisively.

Turning, he had a look at the nearest vegetation. It was of all heights, shapes and sizes, of all shades of green with a few tending toward blueness.

There was something peculiar about the stuff but he was unable to decide where the strangeness lay. It wasn't that the growths were alien and unfamiliar one expected that on every new world but an underlying something which they shared in common. They had a vague, shadowy air of being not quite right in some basic respect impossible to define.

A plant grew right at his feet. It was green in color, a foot high, and monocotyledonous. Looked at as a thing in itself, there was nothing wrong with it. Near to it flourished a bush of darker hue, a yard high, with green, firlike needles in lieu of leaves, and pale, waxy berries scattered over it. That, too, was innocent enough when studied apart from its neighbors. Beside it grew a similar plant, differing only in that its needles were longer and its berries a bright pink. Beyond these towered a cactuslike object dragged out of somebody's drunken dreams, and beside it stood an umbrella frame which had taken root and produced little purple pods. Individually, they were acceptable. Collectively, they made the discerning mind search anxiously for it

knew not what.

That eerie feature had Steve stumped. Whatever it was, he couldn't nail it down.

There was something stranger than the mere strangeness of new forms of plant life, and that was all. He dismissed the problem with a shrug. Time enough to trouble about such matters after he'd dealt with others more urgent such as, for example, the location and purity of the nearest water supply.

A mile away lay a lake of some liquid that might be water. He'd seen it glittering in the sunlight as he'd made his descent, and he'd tried to land fairly near to it. If it wasn't water, well, it'd be just his tough luck and he'd have to look someplace else.

At worst, the tiny fuel reserve would be enough to permit one circumnavigation of the planet before the ship became pinned down forever. Water he must have if he wasn't going to end up imitating the mummy of Rameses the Second.

Reaching high, he grasped the rim of the port, dexterously muscled himself upward and through it. For a minute he moved around inside the ship, then reappeared with a fourgallon freezocan which he tossed to the ground. Then he dug out his popgun, a belt of explosive shells, and let down the folding ladder from lock to surface. He'd need that ladder. He could muscle himself up through a hole seven feet high, but not with fifty pounds of can and water.

Finally, he locked both the inner and outer air lock doors, skipped down the ladder, picked up the can. From the way he'd made his landing the lake should be directly bowon relative to the vessel, and somewhere the other side of those distant trees. Laura took a fresh grip on his shoulder as he started off. The can swung from his left



hand. His right hand rested warily on the gun. He was perpendicular on this world instead of horizontal on another because, on two occasions, his hand had been ready on the gun, and because it was the most nervous hand he possessed.

The going was rough. It wasn't so much that the terrain was craggy as the fact that impeding growths got in his way. At one moment he was stepping over an anklehigh shrub, the next he was facing a burly plant struggling to become a tree. Behind the plant would be a creeper, then a natural zareba of thorns, a fuzz of fine moss, followed by a giant fern. Progress consisted of stepping over one item, ducking beneath a second, going around a third, and crawling under a fourth.

It occurred to him, belatedly, that if he'd planted the ship tailfirst to the lake instead of bowon, or if he'd let the braking rockets blow after he'd touched down, he'd have saved himself much twisting and dodging. All this obstructing stuff would have been reduced to ashes for at least half the distance to the laketogether with any venomous life it might conceal.

That last thought rang like an alarm bell within his mind just as he doubled up to pass a lowswung creeper. On Venus were creepers that coiled and constricted, swiftly, viciously. Macaws played merry hell if taken within fifty yards of them. It was a comfort to know that, this time, Laura was riding his shoulder unperturbedbut he kept the hand on the gun.

The elusive peculiarity of the planet's vegetation bothered him all the more as he progressed through it. His inability to discover and name this unnamable queerness nagged at him as he went on. A frown of self-disgust was on his lean face when he dragged himself free of a clinging bush and sat on a rock in a tiny clearing.

Dumping the can at his feet, he glowered at it and promptly caught a

glimpse of something bright and shining a few feet beyond the can. He raised his gaze. It was then he saw the beetle.

The creature was the biggest of its kind ever seen by human eyes. There were other things bigger, of course, but not of this type. Crabs, for instance. But this was no crab. The beetle ambling purposefully across the clearing was large enough to give any crab a severe inferiority complex, but it was a genuine, twentyfourkarat beetle. And a beautiful one. Like a scarab.

Except that he clung to the notion that little bugs were vicious and big ones companionable, Steve had no phobia about insects. The amiability of large ones was a theory inherited from school-kid days when he'd been the doting owner of a threeinch stagbeetle afflicted with the name of Edgar.

So he knelt beside the creeping giant, placed his hand palm upward in its path. It investigated the hand with waving feelers, climbed onto his palm, paused there ruminatively. It shone with a sheen of brilliant metallic blue and it weighed about three pounds. He jogged it on his hand to get its weight, then put it down, let it wander on. Laura watched it go with a sharp but incurious eye.

"Scarabaeus Anderii," Steve said with glum satisfaction. "I pin my name on himbut nobody'll ever know it!"

"Dinna fash y'rsel!" shouted Laura in a hoarse voice imported straight from Aberdeen. "Dinna fash! Stop chunnerin', wumman! Y'gie me a pain ahint ma sporrان! Dinna"

"Shut up!" Steve jerked his shoulder, momentarily unbalancing the bird. "Why d'you pick up that barbaric dialect quicker than anything else, eh?"

"McGilllicuddy," shrieked Laura with earsplitting relish. "McGilli-GilliGillicuddy!"

The great black!" It ended with a word that pushed Steve's eyebrows into his hair and surprised even the bird itself. Filming its eyes with amazement, it tightened its clawhold on his shoulder opened the eyes, emitted a couple of raucous clucks, and joyfully repeated, "The great black"

It didn't get the chance to complete the new and lovely word. A violent jerk of the shoulder unseated it in the nick of time and it fluttered to the ground, squawking protestingly. Scarabaeus Anderii lumbered out from behind a bush, his blue armor glistening as if freshly polished, and stared reprovingly at Laura.

Then something fifty yards away released a snort like the trumpet of doom and took one step that shook the earth. Scarabaeus Anderii took refuge under a projecting root. Laura made an agitated swoop for Steve's shoulder and clung there desperately. Steve's gun was out and pointing northward before the bird had found its perch. Another step. The ground quivered.

Silence for awhile. Steve continued to stand like a statue. Then came a monstrous whistle more forceful than that of a locomotive blowing off steam.

Something squat and wide and of tremendous length charged headlong through the halfconcealing vegetation while the earth trembled beneath its weight.

Its mad onrush carried it blindly twenty yards to Steve's right, the gun swinging to cover its course, but not firing. Steve caught an extended glimpse of a slategray bulk with a serrated ridge on its back which, despite the thing's pace, took long to pass. It seemed several times

the length of a fire ladder.

Bushes were flung roots topmost and small trees whipped aside as the creature pounded grimly onward in a straight line which carried it far past the ship and into the dim distance. It left behind a tattered swathe wide enough for a firstclass road.

Then the reverberations of its mighty tonnage died out, and it was gone.

Steve used his left hand to pull out a handkerchief and wipe the back of his neck.

He kept the gun in his right hand. The explosive shells in that gun were somewhat wicked; any one of them could deprive a rhinoceros of a hunk of meat weighing two hundred pounds. If a man caught one, he just strewed himself over the landscape.

By the looks of that slatecolored galloper, it would need half a dozen shells to feel incommoded. A seventyfive millimeter bazooka would be more effective for kicking it in the back teeth, but probe ship boys don't tote around such artillery. Steve finished the mopping, put the handkerchief back, picked up the can.

Laura said pensively, "I want my mother."

He scowled, made no reply, set out toward the lake. Her feathers still ruffled, Laura rode his shoulder and lapsed into surly silence.

The stuff in the lake was water, cold, faintly green and a little bitter to the taste.

Coffee would camouflage the flavor. If anything, it might improve the coffee since he liked his java bitter, but the stuff would have to be tested before absorbing it in any quantity. Some poisons were

accumulative. It wouldn't do to guzzle gayly while building up a death-dealing reserve of lead, for instance. Filling the freezocan, he lugged it to the ship in hundred yard stages. The swathe helped; it made an easier path to within short distance of the ship's tail. He was perspiring freely by the time he reached the base of the ladder.

Once inside the vessel, he relocked both doors, opened the air vents, started the auxiliary lightingset and plugged in the percolator, using water out of his depleted reserve supply. The golden sky had dulled to orange, with violet streamers creeping upward from the horizon. Looking at it through the transpex dome, he found that the perpetual haze still effectively concealed the sinking sun. A brighter area to one side was all that indicated its position. He'd need his lights soon.

Pulling out the collapsible table, he jammed its supporting leg into place, plugged into its rim the short rod which was Laura's official seat. She claimed the perch immediately, watched him beadily as he set out her meal of water, melon seeds, sunflower seeds, pecans and unshelled oleo nuts. Her manners were anything but ladylike and she started eagerly, without waiting for him.

A deep frown lay across his brown, muscular features as he sat at the table, poured out his coffee and commenced to eat. It persisted through the meal, was still there when he lit a cigarette and stared speculatively up at the dome.

Presently, he murmured, "I've seen the biggest bug that ever was. I've seen a few other bugs. There were a couple of little ones under a creeper.

One was long and brown and manylegged, like an earwig. The other was round and black, with little red dots on its wing cases. I've seen a tiny purple spider and a tinier green one of different shape, also a bug that looked like an aphid. But not an ant."

"Ant, ant," hooted Laura. She dropped a piece of oleo nut, climbed down after it. 'awk!" she added from the floor.

"Nor a bee."

"Bee," echoed Laura, companionably. "Beeant. Laura loves Steve."

Still keeping his attention on the dome, he went on, "And what's cockeyed about the plants is equally cockeyed about the bugs. I wish I could place it. Why can't I?

Maybe I'm going nuts already."

"Laura loves nuts."

"I know it, you technicolored belly!" said Steve rudely.

And at that point night fell with a silent bang. The gold and orange and violet abruptly were swamped with deep, impenetrable blackness devoid of stars or any random gleam. Except for greenish glowings on the instrument panel, the control room was stygian, with Laura swearing steadily on the floor.

Putting out a hand, Steve switched on the indirect lighting. Laura got to her perch with the rescued titbit, concentrated on the job of dealing with it and let him sink back into his thoughts.

"Scarabaeus Anderii and a pair of smaller bugs and a couple of spiders, all different. At the other end of the scale, that gigantosaur. But no ant, or bee. Or rather, no ants, no bees." The switch from singular to plural stirred his back hairs queerly. In some vague way, he felt that he'd touched the heart of the mystery. "No antno ants," he thought. "No beeno bees." Almost he had itbut still it evaded him.

Giving it up for the time being, he cleared the table, did a few minor chores.

After that, he drew a standard sample from the freezocan, put it through its paces.

The bitter flavor he identified as being due to the presence of magnesium sulphate in quantity far too small to prove embarrassing. Drinkable that was something! Food, drink and shelter were the three essentials of survival. He'd enough of the first for six or seven weeks. The lake and the ship were his remaining guarantees of life.

Finding the log, he entered the day's report, bluntly, factually, without any embroidery. Partway through, he found himself stuck for a name for the planet.

Ander, he decided, would cost him dear if the million-to-one chance put him back among the merciless playmates of the Probe Service. O.K. for a bug, but not for a world. Laura wasn't so hot, either especially when you knew Laura. It wouldn't be seemly to name a big gold planet after an oversized parrot. Thinking over the golden aspect of this world's sky, he hit upon the name of Oro, promptly made the christening authoritative by entering it in his log.

By the time he'd finished, Laura had her head buried deep under one wing.

Occasionally she teetered and swung erect again. It always fascinated him to watch how her balance was maintained even in her slumbers. Studying her fondly, he remembered that unexpected addition to her vocabulary. This shifted his thoughts to a fiery-headed and fierier-tongued individual named Menzies, the sworn foe of another volcano named McGillicuddy. If ever the opportunity presented itself, he decided, the educative work of said Menzies was

going to be rewarded with a bust on the snoot.

Sighing, he put away the log, wound up the fortyday chronometer, opened his folding bunk and lay down upon it. His hand switched off the lights. Ten years back, a first landing would have kept him awake all night in dithers of excitement. He'd got beyond that now. He'd done it often enough to have grown phlegmatic about it. His eyes closed in preparation for a good night's sleep, and he did sleep for two hours.

What brought him awake within that short time he didn't know, but suddenly he found himself sitting bolt upright on the edge of the bunk, his ears and nerves stretched to their utmost, his legs quivering in a way they'd never done before. His whole body fizzed with that queer mixture of palpitation and shock which follows narrow escape from disaster.

This was something not within previous experience. Sure and certain in the intense darkness, his hand sought and found his gun. He cuddled the butt in his palm while his mind strove to recall a possible nightmare, though he knew he was not given to nightmares.

Laura moved restlessly on her perch, not truly awake, yet not asleep, and this was unusual in her.

Rejecting the dream theory, he stood up on the bunk, looked out through the dome. Blackness, the deepest, darkest, most impenetrable blackness it was possible to conceive. And silence! The outside world slumbered in the blackness and the silence as in a sable shroud.

, Yet never before had he felt so wide awake in this, his normal sleeping time.

Puzzled, he turned slowly round to take in the full circle of unseeable



view, and at one point he halted. The surrounding darkness was not complete. In the distance beyond the ship's tail moved a tall, stately glow. How far off it might be was not possible to estimate, but the sight of it stirred his soul and caused his heart to leap.

Uncontrollable emotions were not permitted to master his disciplined mind.

Narrowing his eyes, he tried to discern the nature of the glow while his mind sought the reason why the mere sight of it should make him twang like a harp. Bending down, he felt at the head of the bunk, found a leather case, extracted a pair of powerful night glasses. The glow was still moving, slowly, deliberately, from right to left. He got the glasses on it, screwed the lenses into focus, and the phenomenon leaped into closer view.

The thing was a great column of golden haze much like that of the noonday sky except that small, intense gleams of silver sparkled within it. It was a shaft of lustrous mist bearing a sprinkling of tiny stars. It was like nothing known to or recorded by any form of life lower than the gods. But was it life?

It moved, though its mode of locomotion could not be determined.

Selfmotivation is the prime symptom of life. It could be life, conceivably though not credibly, from the Terrestrial viewpoint. Consciously, he preferred to think it a strange and purely local feature comparable with Saharan sanddevils.

Subconsciously, he knew it was life, tall and terrifying.

He kept the glasses on it while slowly it receded into the darkness, foreshortening with increasing distance and gradually fading from view. To the very last the observable field shifted and shuddered as

he failed to control the quiver in his hands. And when the sparkling haze had gone leaving only a pall over his lenses, he sat down on the bunk and shivered with eerie cold.

Laura was dodging to and fro along her perch, now thoroughly awake and agitated, but he wasn't inclined to switch on the lights and make the dome a beacon in the night. His hand went out, feeling for her in the darkness, and she clambered eagerly onto his wrist, thence to his lap. She was fussy and demonstrative, pathetically yearning for comfort and companionship. He scratched her poll and fondled her while she pressed close against his chest with funny little crooning noises. For some time he soothed her and, while doing it, fell asleep. Gradually he slumped backward on the bunk. Laura perched on his forearm, clucked tiredly, put her head under a wing.

There was no further awakening until the outer blackness disappeared and the sky again sent its golden glow pouring through the dome. Steve got up, stood on the bunk, had a good look over the surrounding terrain. It remained precisely the same as it had been the day before. Things stewed within his mind while he got his breakfast; especially the jumpiness he'd experienced in the nighttime. Laura also was subdued and quiet. Only once before had she been like that which was when he'd traipsed through the Venusian section of the Panplanetary Zoo and had shown her a crested eagle. The eagle had stared at her with contemptuous dignity.

Though he'd all the time in his life, he now felt a peculiar urge to hasten. Getting the gun and the freezocan, he made a full dozen trips to the lake, wasting no minutes, nor stopping to study the still enigmatic plants and bugs. It was late in the afternoon by the time he'd filled the ship's fiftygallon reservoir, and had the satisfaction of knowing that he'd got a drinkable quota to match his food supply.

There had been no sign of gigantosaur or any other animal. Once

he'd seen something flying in the far distance, birdlike or batlike. Laura had cocked a sharp eye at it but betrayed no undue interest. Right now she was more concerned with a new fruit. Steve sat in the rim of the outer lock door, his legs dangling, and watched her clambering over a small tree thirty yards away. The gun lay in his lap; he was ready to take a crack at anything which might be ready to take a crack at Laura.

The bird sampled the tree's fruit, a crop resembling blueshelled lychee nuts. She ate one with relish, grabbed another. Steve lay back in the lock, stretched to reach a bag, then dropped to the ground and went across to the tree. He tried a nut. Its flesh was soft, juicy, sweet and citrus. He filled the bag with the fruit, slung it into the ship.

Nearby stood another tree, not quite the same, but very similar. It bore nuts like the first except that they were larger. Picking one, he offered it to Laura who tried it, spat it out in disgust. Picking a second, he slit it, licked the flesh gingerly. As far as he could tell, it was the same. Evidently he couldn't tell far enough: Laura's diagnosis said it was not the same. The difference, too subtle for him to detect, might be sufficient to roll him up like a hoop and keep him that shape to the unpleasant end.

He flung the thing away, went back to his seat in the lock, and ruminated.

That elusive, nagging feature of Oro's plants and bugs could be narrowed down to these two nuts. He felt sure of that. If he could discover why parrotwise one nut was a nut while the other nut was not, he'd have his finger right on the secret. The more he thought about those similar fruits the more he felt that, in sober fact, his finger was on the secret already but he lacked the power to lift it and see what lay beneath.

Tantalizingly, his mulling over the subject landed him the same place as before; namely, nowhere. It got his dander up, and he went back to the trees, subjected both to close examination. His sense of sight told him that they were different individuals of the same species. Laura's sense of whatchamacallit insisted that they were different species. Ergo, you can't believe the evidence of your eyes. He was aware of that fact, of course, since it was a platitude of the spaceways, but when you couldn't trust your optics it was legitimate to try to discover just why you couldn't trust 'em. And he couldn't discover even that!

It soured him so much that he returned to the ship, locked its doors, called Laura back to his shoulder and set off on a tailward exploration. The rules of first landings were simple and sensible. Go in slowly, come out quickly, and remember that all we want from you is evidence of suitability for human life. Thoroughly explore a small area rather than scout a big one the mapping parties will do the rest. Use your ship as a base and centralize it where you can live don't move it unnecessarily. Restrict your trips to a radius representing daylight reach and lock yourself in after dark.

was Oro suitable for human life? The unwritten law was that you don't jump to conclusions and say, "Of course! I'm still living, aren't I?" Cameron, who'd plonked his ship on Mithra, for instance, thought he'd found paradise until, on the seventeenth day, he'd discovered the fungoid plague. He'd left like a bat out of hell and had spent three sweaty, swearing days in the Lunar Purification Plant before becoming fit for society. The authorities had vaporized his ship. Mithra had been taboo ever since. Every world a potential trap baited with scenic delight. The job of the Probe Service was to enter the traps and jounce on the springs. Another dollop of real estate for Terra if nothing broke your neck.

Maybe Oro was loaded for bear. The thing that walked in the night, Steve mused, bore awful suggestion of nonhuman power. So did a

waterspout, and whoever heard of anyone successfully wrestling with a waterspout? If this Orosput were sentient, so much the worse for human prospects. He'd have to get the measure of it, he decided, even if he had to chase it through the blank avenues of night.

Plodding steadily away from the tail, gun in hand, he pondered so deeply that he entirely overlooked the fact that he wasn't on a pukka probe job anyway, and that nothing else remotely human might reach Oro in a thousand years. Even spaceboys can be creatures of habit. Their job: to look for death; they were liable to go on looking long after the need had passed, in bland disregard of the certainty that if you look for a thing long enough, ultimately you find it!

The ship's chronometer had given him five hours to darkness. Two and a half hours each way; say ten miles out and ten back. The water had consumed his time.

On the morrow, and henceforth, he'd increase the radius to twelve and take it easier.

Then all thoughts fled from his mind as he came to the edge of the vegetation.

The stuff didn't dribble out of existence with hardy spurs and offshoots fighting for a hold in rocky ground. It stopped abruptly, in light loam, as if cut off with a machete, and from where it stopped spread a different crop. The new growths were tiny and crystalline.

He accepted the crystalline crop without surprise, knowing that novelty was the inevitable feature of any new locale. Things were ordinary only by Terrestrial standards. Outside of Terra, nothing was supernormal or abnormal except insofar as they failed to jibe with their own peculiar conditions. Besides, there were crystalline growths on Mars. The one unacceptable feature of the situation was the way in

which vegetable growths ended and crystalline ones began. He stepped back to the verge and made another startled survey of the borderline. It was so straight that the sight screwed his brain around. Like a field. A cultivated field. Dead straightness of that sort couldn't be other than artificial. Little beads of moisture popped out on his back.

Squatting on the heel of his right boot, he gazed at the nearest crystals and said to Laura, "Chicken, I think these things got planted. Question is, who planted 'em?"

"McGillicuddy," suggested Laura brightly.

Putting out a finger, he flicked the crystal sprouting near the toe of his boot, a green, branchy object an inch high.

The crystal vibrated and said, "Zing!" in a sweet, high voice.

He flicked its neighbor, and that said, "Zang!" in lower tone.

He flicked a third. It emitted no note, but broke into a thousand shards.

Standing up, he scratched his head, making Laura fight for a clawhole within the circle of his arm. One zinged and one zanged and one returned to dust. Two nuts.

Zings and zangs and nuts. It was right in his grasp if only he could open his hand and look at what he'd got.

Then he lifted his puzzled and slightly ireful gaze, saw something fluttering erratically across the crystal field. It was making for the vegetation. Laura took off with a raucous cackle, her blue and crimson wings beating powerfully. She swooped over the object, frightening it so low that it dodged and sideslipped only a few feet

above Steve's head. He saw that it was a large butterfly, frillwinged, almost as gaudy as Laura. The bird swooped again, scaring the insect but not menacing it. He called her back, set out to cross the area ahead. Crystals crunched to powder under his heavy boots as he tramped on.

Half an hour later he was toiling up a steep, crystalcoated slope when his thoughts suddenly jelled and he stopped with such abruptness that Laura spilled from his shoulder and perforce took to wing. She beat round in a circle, came back to her perch, made bitter remarks in an unknown language.

"One of this and one of that," he said. "No twos or threes or dozens. Nothing I've seen has repeated itself. There's only one gigantosaurus, only one Scarabaeus Anderii, only one of every other danged thing. Every item is unique, original, and an individual creation in its own right. What does that suggest?"

"McGillicuddy," offered Laura.

"For Pete's sake, forget McGillicuddy."

"For Pete's sake, for Pete's sake," yelled Laura, much taken by the phrase. "The great black"

Again he upset her in the nick of time, making her take to flight while he continued talking to himself. "It suggests constant and allpervading mutation.

Everything breeds something quite different from itself and there aren't any dominant strains." He frowned at the obvious snag in this theory. "But how the blazes does anything breed? What fertilizes which?"

"McGilli," began Laura, then changed her mind and shut up.

"Anyway, if nothing breeds true, it'll be tough on the food problem," he went on.

"What's edible on one plant may be a killer on its offspring. Today's fodder is tomorrow's poison. How's a farmer to know what he's going to get? Heyhey, if I'm guessing right, this planet won't support a couple of hogs."

"No, sir. No hogs. Laura loves hogs."

"Be quiet," he snapped. "Now, what shouldn't support a couple of hogs demonstrably does support gigantosaur and any other fancy animals which may be mooching around. It seems crazy to me. On Venus or any other place full of consistent fodder, gigantosaur would thrive, but here, according to my calculations, the big lunk has no right to be alive. He ought to be dead."

So saying, he topped the rise and found the monster in question sprawling right across the opposite slope. It was dead.

The way in which he determined its deadness was appropriately swift, simple and effective. Its enormous bulk lay draped across the full length of the slope and its dragonhead, the size of a lifeboat, pointed toward him. The head had two dull, lackluster eyes like dinner plates. He planted a shell smack in the right eye and a sizable hunk of noggin promptly splashed in all directions. The body did not stir.

There was a shell ready for the other eye should the creature leap to frantic, vengeful life, but the mighty hulk remained supine.

His boots continued to desiccate crystals as he went down the slope, curved a hundred yards off his route to get around the corpse, and trudged up the farther rise.



Momentarily, he wasn't much interested in the dead beast. Time was short and he could come again tomorrow, bringing a fullcolor stereoscopic camera with him.

Gigantosaurus would go on record in style, but would have to wait.

This second rise was a good deal higher, and more trying a climb. Its crest represented the approximate limit of this day's trip, and he felt anxious to surmount it before turning back. Humanity's characteristic urge to see what lay over the hill remained as strong as on the day determined ancestors topped the Rockies. He had to have a look, firstly because elevation gave range to the vision, and secondly because of that prowler in the nightand, nearly as he could estimate, the prowler had gone down behind this rise. A column of mist, sucked down from the sky, might move around aimlessly, going nowhere, but instinct maintained that this had been no mere column of mist, and that it was going somewhere.

Where?

Out of breath, he pounded over the crest, looked down into an immense valley, and found the answer.

The crystal growths gave out on the crest, again in a perfectly straight line.

Beyond them the light loam, devoid of rock, ran gently down to the valley and up the farther side. Both slopes were sparsely dotted with queer, jellylike lumps of matter which lay and quivered beneath the sky's golden glow.

From the closed end of the valley jutted a great, glistening fabrication, fiatroofed, fiatfronted, with a huge, square hole gaping in its midsection at front. It looked like a tremendous oblong slab of

polished, milkwhite plastic halfburied endwise in a sandy hill. No decoration disturbed its smooth, gleaming surface. No road led to the hole in front. Somehow, it had the newold air of a house that struggles to look empty because it is full of fiends.

Steve's back hairs prickled as he studied it. One thing was obvious Oro bore intelligent life. One thing was possible the golden column represented that life. One thing was probable fleshly Terrestrials and hazy Orons would have difficulty in finding a basis for friendship and cooperation.

Whereas enmity needs no basis.

Curiosity and caution pulled him opposite ways. One urged him down into the valley while the other drove him back, back, while yet there was time He consulted his watch. Less than three hours to go, within which

he had to return to the ship, enter the log, prepare supper. That milky creation was at least two miles away, a good hour's journey there and back. Let it wait. Give it another day and he'd have more time for it, with the benefit of needful thought between times.

Caution triumphed. He investigated the nearest jellyblob. It was flat, a yard in diameter, green, with bluish streaks and many tiny bubbles hiding in its semi-transparency. The thing pulsated slowly. He poked it with the toe of his boot, and it contracted, humping itself in the middle, then sluggishly relaxed. No amoeba, he decided. A low form of life, but complicated withal. Laura didn't like the object. She skittered off as he bent over it, vented her anger by bashing a few crystals.

This jello dollop wasn't like its nearest neighbor, or like any other.

One of each, only one. The same rule: one butterfly of a kind, one bug,

one plant, one of these quivering things.

A final stare at the distant mystery down in the valley, then he retraced his steps. When the ship came into sight he speeded up like a gladsome voyager nearing home. There were new prints near the vessel, big, three toed, deeply impressed spoor which revealed that something large, heavy and twolegged had wandered past in his absence. Evidently an animal, for nothing intelligent would have meandered on so casually without circling and inspecting the nearby invader from space. He dismissed it from his mind. There was only one thingumabob, he felt certain of that.

Once inside the ship, he relocked the doors, gave Laura her feed, ate his supper. Then he dragged out the log, made his day's entry, had a look around from the dome. Violet streamers once more were creeping upward from the horizon. He frowned at the encompassing vegetation.

What sort of stuff had bred all this in the past? What sort of stuff would this breed in the future? How did it progenerate, anyway?

Wholesale radical mutation presupposed modification of genes by hard radiation in persistent and considerable blasts. You shouldn't get hard radiation on lightweight planets unless it poured in from the sky. I Here, it didn't pour from the sky, or from any place else. In fact, there wasn't any.

He was pretty certain of that fact because he'd a special interest in it and had checked up on it. Hard radiation betokened the presence of radioactive elements which, at a pinch, might be usable as fuel. The ship was equipped to detect such stuff. Among the junk was a cosmira counter, a radium hen, and a goldleaf electroscope. The hen and the counter hadn't given so much as one heartening cluck, in fact the only .

clucks had been Laura's. The electroscope he'd charged on landing and its leaves still formed an inverted V. The air was dry, ionization negligible, and the leaves didn't look likely to collapse for a week.

"Something's wrong with my theorizing," he complained to Laura. "My thinkstuff's not doing its job."

"Not doing its job," echoed Laura faithfully. She cracked a pecan with a grating noise that set his teeth on edge. "I tell you it's a hoodoo skip. I won't sail. No, not even if you pray for me. I won't, I won't, I won't. Nope. Nix. Who's drunk? That hairy Lowlander Mc"

"Laura!" he said sharply.

"Gillicuddy," she finished with bland defiance. Again she rasped his teeth.

"Rings bigger'n Saturn's. I saw them myself. Who's a liar? Yawk! She's down in Grayway Bay, on Tethis. Boy, what a torso!"

He looked at her hard and said, "You're nuts!"

"Sure! Sure, pal! Laura loves nuts. Have one on me."

"O.K.," he accepted, holding out his hand.

Cocking her colorful pate, she pecked at his hand, gravely selected a pecan and gave it to him. He cracked it, chewed on the kernel while starting up the lightingset. It was almost as if night were waiting for him. Blackness fell even as he switched on the lights.

With the darkness came a keen sense of unease. The dome was the trouble. It blazed like a beacon and there was no way of blacking it out except by turning off the lights. Beacons attracted things, and he'd no

desire to become a center of attraction in present circumstances. That is to say, not at night.

Long experience had bred fine contempt for alien animals, no matter how whacky, but outlandish intelligences were a different proposition. So filled was he with the strange inward conviction that last night's phenomenon was something that knew its onions that it didn't occur to him to wonder whether a glowing column possessed eyes or anything equivalent to a sense of sight. If it had occurred to him, he'd have derived no comfort from it. His desire to be weighed in the balance in some eerie, extrasensory way was even less than his desire to be gaped at visually in his slumbers.

An unholy mess of thoughts and ideas was still cooking in his mind when he extinguished the lights, bunked down and went to sleep. Nothing disturbed him this time, but when he awoke with the golden dawn his chest was damp with perspiration and Laura again had sought refuge on his arm.

Digging out breakfast, his thoughts began to marshal themselves as he kept his hands busy. Pouring out a shot of hot coffee, he spoke to Laura.

"I'm durned if I'm going to go scatty trying to maintain a threewatch system singlehanded, which is what I'm supposed to do if faced by powers unknown when I'm not able to beat it. Those armchair warriors at headquarters ought to get a taste of situations not precisely specified in the book of rules."

"Burp!" said Laura contemptuously.

"He who fights and runs away lives to fight another day," Steve quoted. "That's the Probe Law. It's a nice, smooth, lovely law when you can run away. We can't!"

"Burrrup!" said Laura with unnecessary emphasis.

"For a woman, your manners are downright disgusting," he told her. "Now I'm not going to spend the brief remainder of my life looking fearfully over my shoulder.

The only way to get rid of powers unknown is to convert 'em into powers known and understood. As Uncle Joe told Willie when dragging him to the dentist, the longer we put it off the worse it'll feel."

"Dinna fash y'rsel'," declaimed Laura. "Burpgollopbop!"

Giving her a look of extreme distaste, he continued, "So we'll try tossing the bull.

Such techniques disconcert bulls sometimes." Standing up, he grabbed Laura, shoved her into her traveling compartment, slid the panel shut. "We're going to blow off forthwith."

Climbing up to the control seat, he stamped on the energizer stud. The tail rockets popped a few times, broke into a subdued roar. Juggling the controls to get the preparatory feel of them, he stepped up the boost until the entire vessel trembled and the rear venturis began to glow cherryred. Slowly the ship commenced to edge its bulk forward and, as it did so, he fed it the takeoff shot. A halfmile blast kicked backward and the probe ship plummeted into the sky.

Pulling it round in a wide and shallow sweep, he thundered over the borderline of vegetation, the fields of crystals and the hills beyond. In a flash he was plunging through the valley, braking rockets blazing from the nose. This was tricky. He had to coordinate forward shoot, backward thrust and downward surge, but like most of his kind he took pride in the stunts performable with these neat little vessels. An aweinspired audience was all he lacked to make the exhibition

perfect. The vessel landed fairly and squarely on the milkwhite roof of the alien edifice, slid halfway to the cliff, then stopped.

"Boy," he breathed, "am I good!" He remained in his seat, stared around through the dome, and felt that he ought to add, "And too young to die." Occasionally eying the chronometer, he waited awhile. The boat must have handed that roof a thump sufficient to wake the dead. If anyone were in, they'd soon hotfoot out to see who was heaving hundredton bottles at their shingles. Nobody emerged. He gave them half an hour, his hawklike face strained, alert. Then he gave it up, said, "Ah, well,"

and got out of the seat.

He freed Laura. She came out with ruffled dignity, like a dowager who's paraded into the wrong room. Females were always curious critters, in his logic, and he ignored her attitude, got his gun, unlocked the doors, jumped down onto the roof.

Laura followed reluctantly, came to his shoulder as if thereby conferring a great favor.

Walking past the tail to the edge of the roof, he looked down. The sheerness of the fivehundredfoot drop took him aback. Immediately below his feet, the entrance soared four hundred feet up from the ground and he was standing on the hundredfoot lintel surmounting it. The only way down was to walk to the side of the roof and reach the earthy slope in which the building was embedded, seeking a path down that.

He covered a quarter of a mile of roof to get to the slope, his eyes examining the roof's surface as he went, and failing to find one crack or joint in the uniformly smooth surface. Huge as it was, the erection appeared to have been molded all in one piece a fact which did

nothing to lessen inward misgivings. Whoever did this mighty job weren't Zulus!

From ground level the entrance loomed bigger than ever. If there had been a similar gap at the other side of the building, and a clear way through, he could have taken the ship in at one end and out at the other as easily as threading a needle.

Absence of doors didn't seem peculiar; it was difficult to imagine any sort of door huge enough to fill this opening yet sufficiently balanced to enable anyone or anything to pull open or shut. With a final, cautious look around which revealed nothing moving in the valley, he stepped boldly through the entrance, blinked his eyes, found interior darkness slowly fading as visual retention lapsed and gave up remembrance of the golden glow outside.

There was a glow inside, a different one, paler, ghastlier, greenish. It exuded from the floor, the walls, the ceiling, and the total area of radiation was enough to light the place clearly, with no shadows. He sniffed as his vision adjusted itself.

There was a strong smell of ozone mixed with other, unidentifiable odors.

To his right and left, rising hundreds of feet, stood great tiers of transparent cases. He went to the ones on his right and examined them. They were cubes, about a yard each way, made of something like transpex. Each contained three inches of loam from which sprouted a crystal. No two crystals were alike; some small and branchy, others large and indescribably complicated.

Dumb with thought, he went around to the back of the monster tier, found another ten yards behind it. And another behind that. And another and another. All with crystals. The number and variety of them



made his head whirl. He could study only the two bottom rows of each rack, but row on row stepped themselves far above his head to within short distance of the roof. Their total number was beyond estimation.

It was the same on the left. Crystals by the thousands. Looking more closely at one especially fine example, he noticed that the front plate of its case bore a small, inobtrusive pattern of dots etched upon the outer surface. Investigation revealed that all cases were similarly marked, differing only in the number and arrangement of the dots. Undoubtedly, some sort of cosmic code used for classification purposes.

"The Oron Museum of Natural History," he guessed, in a whisper.

"You're a liar," squawked Laura violently. "I tell you it's a hoodoo" She stopped, dumfounded, as her own voice roared through the building in deep, organlike tones, "A hoodooA hoodoo"

"Holy smoke, will you keep quiet!" hissed Steve. He tried to keep watch on the exit and the interior simultaneously. But the voice rumbled away in the distance without bringing anyone to dispute their invasion.

Turning, he paced hurriedly past the first blocks of tiers to the next batteries of exhibits. Jelly blobs in this lot. Small ones, no bigger than his wrist watch, numberable in thousands. None appeared to be alive, he noted.

Sections three, four and five took him a mile into the building as nearly as he could estimate. He passed mosses, lichens and shrubs, all dead but wondrously preserved. By this time he was ready to guess at section sixplants. He was wrong.

The sixth layout displayed bugs, including moths, butterflies, and

strange, unfamiliar objects resembling chitinous hummingbirds. There was no sample of Scarabaeus Anderii, unless it were several hundred feet up. Or unless there was an empty box ready for it when its day was done.

Who made the boxes? Had it prepared one for him? One for Laura? He visualized himself, petrified forever, squatting in the seventieth case of the twentyfifth row of the tenth tier in section somethingorother, his front panel duly tagged with its appropriate dots. It was a lousy picture. It made his forehead wrinkle to think of it.

Looking for he knew not what, he plunged steadily on, advancing deeper and deeper into the heart of the building. Not a soul, not a sound, not a footprint. Only that allpervading smell and the unvarying glow. He had a feeling that the place was visited frequently but never occupied for any worthwhile period of time. Without bothering to stop and look, he passed an enormous case containing a creature faintly resembling a bisonheaded rhinoceros, then other, still larger cases holding equally larger exhibits all carefully dotmarked.

Finally, he rounded a box so tremendous that it sprawled across the full width of the hall. It contained the grandpappy of all trees and the greatgrandpappy of all serpents. Behind, for a change, reared five hundred feet high racks of metal cupboards, each cupboard with a stud set in its polished door, each ornamented with more groups of mysteriously arranged dots.

Greatly daring, he pressed the stud on the nearest cupboard and its door swung open with a juicy click. The result proved disappointing. The cupboard was filled with stacks of small, glassy sheets each smothered with dots.

"Super filingsystem," he grunted, closing the door. "Old Prof Heggarty would give his right arm to be here."

"Heggarty," said Laura, in a faltering voice. "For Pete's sake!"

He looked at her sharply. She was ruffled and fidgety, showing signs of increasing agitation.

"What's the matter, Chicken"

She peeked at him, returned her anxious gaze the way they had come, sidestepped to and fro on his shoulder. Her neck feathers started to rise. A nervous cluck came from her beak and she cowered close to his jacket.

"Darn!" he muttered. Spinning on one heel, he raced past successive filing blocks, got into the ten yards' space between the end block and the wall. His gun was out and he kept watch on the front of the blocks while his free hand tried to soothe Laura. She snuggled up close, rubbing her head into his neck and trying to hide under the angle of his jaw.

"Quiet, Honey," he whispered. "Just you keep quiet and stay with Steve, and we'll be all right."

She kept quiet, though she'd begun to tremble. His heart speeded up in sympathy though he could see nothing, hear nothing to warrant it.

Then, while he watched and waited, and still in absolute silence, the interior brightness waxed, became less green, more golden. And suddenly he knew what it was that was coming. He knew what it was!

He sank on one knee to make himself as small and inconspicuous as possible.

Now his heart was palpitating wildly and no coldness in his mind could freeze it down to slower, more normal beat. The silence, the

awful silence of its approach was the unbearable feature. The crushing thud of a weighty foot or hoof would have been better. Colossi have no right to steal along like ghosts.

And the golden glow built up, drowning out the green radiance from floor to roof, setting the multitude of casesurfaces afire with its brilliance. It grew as strong as the golden sky, and stronger. It became allpervading, unendurable, leaving no darkness in which to hide, no sanctuary for little things.

It flamed like the rising sun or like something drawn from the heart of a sun, and the glory of its radiance sent the cowering watcher's mind aw whirl. He struggled fiercely to control his brain, to discipline it, to bind it to his fading willand failed.

With drawn face beaded by sweat, Steve caught the merest fragmentary glimpse of the column's edge appearing from between the stacks of the center aisle. He saw a blinding strip of burnished gold in which glittered a pure white star, then a violent effervescence seemed to occur within his brain and he fell forward into a cloud of tiny bubbles.

Down, down he sank through myriad bubbles and swirls and sprays of iridescent froth and foam which shone and changed and shone anew with every conceivable color. And all the time his mind strove frantically to battle upward and drag his soul to the surface.

Deep into the nethermost reaches he went while still the bubbles whirled around in their thousands and their colors were of numberless hues. Then his progress slowed. Gradually the froth and the foam ceased to rotate upward, stopped its circling, began to swirl in the reverse direction and sink. He was rising! He rose for a lifetime, floating weightlessly, in a dreamlike trance.

The last of the bubbles drifted eerily away, leaving him in a brief hiatus of nonexistence then he found himself sprawled full length on the floor with a dazed Laura clinging to his arm. He blinked his eyes, slowly, several times. They were strained and sore. His heart was still palpitating and his legs felt weak. There was a strange sensation in his stomach as if memory had sickened him with a shock from long, long ago.

He didn't get up from the floor right away; his body was too shaken and his mind too muddled for that. While his wits came back and his composure returned, he lay and noted that all the invading goldness had gone and that again the interior illumination was a dull, shadowless green. Then his eyes found his watch and he sat up, startled. Two hours had flown!

That fact brought him shakily to his feet. Peering around the end of the bank of filing cabinets, he saw that nothing had changed. Instinct told him that the golden visitor had gone and that once more he had this place to himself. Had it become aware of his presence? Had it made him lose consciousness or, if not, why had he lost it? Had it done anything about the ship on the roof?

Picking up his futile gun, he spun it by its stud guard and looked at it with contempt. Then he holstered it, helped Laura onto his shoulder where she perched groggily, went around the back of the racks and still deeper into the building.

"I reckon we're O.K., Honey," he told her. "I think we're too small to be noticed.

We're like mice. Who bothers to trap mice when he's got bigger and more important things in mind?" He pulled a face, not liking the mouse comparison. It wasn't flattering either to him or his kind. But it was the best he could think of at the moment. "So, like little mice, let's

for cheese. I'm not giving up just because a big hunk of something has sneaked past and put a scare into us. We don't scare off, do we, Sweetness?"

"No," said Laura unenthusiastically. Her voice was still subdued and her eyes perked apprehensively this way and that. "No scare. I won't sail, I tell you. Blow my sternpipes! Laura loves nuts!"

"Don't you call me a nut!"

"Nuts! Stick to farming it gets you more eggs. McGillicuddy, the great"

"Hey!" he warned.

She shut up abruptly. He put the pace on, refusing to admit that his system felt slightly jittery with nervous strain or that anything had got him bothered. But he knew that he'd no desire to be near that sparkling giant again. Once was enough, more than enough. It wasn't that he feared it, but something else, something he was quite unable to define.

Passing the last bank of cabinets, he found himself facing a machine. It was complicated and bizarre and it was making a crystalline growth. Near it, another and different machine was manufacturing a small, horned lizard. There could be no doubt at all about the process of fabrication because both objects were halfmade and both progressed slightly even as he watched. In a couple of hours' time, perhaps less, they'd be finished, and all they'd need would be . . . would be--The hairs stiffened on the back of his neck and he commenced to run. Endless machines, all different, all making different things, plants, bugs, birds and fungoids.

It was done by electroponics, atom fed to atom like brick after brick to build a house. It wasn't synthesis because that's only assembly, and

this was assembly plus growth in response to unknown

laws. In each of these machines, he knew, was some key or code or cipher, some weird mastercontrol of unimaginable complexity, determining the patterns each was building and the patterns were infinitely variable.

Here and there a piece of apparatus stood silent, inactive, their tasks complete.

Here and there other monstrous layouts were in pieces, either under repair or readied for modification. He stopped by one which had finished its job. It had fashioned a delicately shaded moth which perched motionless like a jeweled statue within its fabrication jar. The creature was perfect as far as he could tell, and all it was waiting for was . . . was

Beads of moisture popped out on his forehead. All that moth needed was the breath of life!

He forced a multitude of notions to get out of his mind. It was the only way to retain a hold on himself. Divert your attention take it off this and place it on that!

Firmly, he fastened his attention on one tremendous, partly disassembled machine lying nearby. Its guts were exposed, revealing great field coils of dull gray wire. Bits of similar wire lay scattered around on the floor.

Picking up a short piece, he found it surprisingly heavy. He took off his wrist watch, opened its back, brought the wire near to its works. The Venusian jargoos bearing fluoresced immediately. Vjargoos invariably glowed in the presence of near radiation. This unknown metal was a possible fuel. His heart gave a jump at the mere thought

of it.

Should he drag out a huge coil and lug it up to the ship? It was very heavy, and he'd need a considerable length of the stuff if it was usable as fuel. Supposing the disappearance of the coil caused mousetraps to be set before he returned to search anew?

It pays to stop and think whenever you've got time to stop and think; that was a fundamental of Probe Service philosophy. Pocketing a sample of the wire, he sought around other disassembled machines for more. The search took him still deeper into the building and he fought harder to keep his attention concentrated solely on the task. It wasn't easy. There was that dog, for instance, standing there, statue-like, waiting, waiting. If only it had been anything but indubitably and recognizably an Earth-type dog. It was impossible to avoid seeing it. It would be equally impossible to avoid seeing other, even more familiar forms if they were there.

He'd gained seven samples of different radioactive wires when he gave up the search. A cockatoo ended his peregrinations. The bird stood steadfastly in its jar, its blue plumage smooth and bright, its crimson crest raised, its bright eye fixed in what was not death but not yet life. Laura shrieked at it hysterically and the immense hall shrieked back at her with longdrawn roars and rumbles that reverberated into dim distances. Laura's reaction was too much; he wanted no cause for similar reaction of his own.

He sped through the building at top pace, passing the filing cabinets and the mighty array of exhibition cases unheedingly. Up the loamy side slopes he climbed almost as rapidly as he'd gone down, and he was breathing heavily by the time he got into the ship.

His first action was to check the ship for evidence of interference. There wasn't any. Next, he checked the instruments. The



Electroscope's leaves were collapsed.

Charging them, he watched them flip open and flop together again. The counter showed radiation aplenty. The hen clucked energetically. He'd blundered somewhat he should have checked up when first he landed on the roof. However, no matter. What lay beneath the roof was now known; the instruments would have advised him earlier but not as informatively.

Laura had her feed while he accompanied her with a swift meal. After that, he dug out his samples of wire. No two were the same gauge and one obviously was far too thick to enter the feed holes of the Kingston-Kanes. It took him half an hour to file it down to a suitable diameter. The original piece of dull gray wire took the first test. Feeding it in, he set the controls to minimum warmingup intensity, stepped on the energizer. Nothing happened.

He scowled to himself. Someday they'd have jobs better than the sturdy but finicky KingstonKanes, jobs that'd eat anything eatable. Density and radioactivity weren't enough for these motors; the stuff fed to them had to be right.

Going back to the KingstonKanes, he pulled out the wire, found its end fused into shapelessness. Definitely a failure. Inserting the second sample, another gray wire not so dull as the first, he returned to the controls, rammed the energizer. The tail rockets promptly blasted with a low, moaning note and the thrust dial showed sixty per cent normal surge.

Some people would have got mad at that point. Steve didn't. His lean, hawklike features quirked, he felt in his pocket for the third sample, tried that. No soap. The fourth likewise was a flop. The fifth produced a peculiar and rhythmic series of blasts which shook the vessel from end to end and caused the thrustdial needle to waggle between one

hundred twenty per cent and zero. He visualized the Probe patrols popping through space like outboard motors while he extracted the stuff and fed the sixth sample. The sixth roared joyously at one hundred seventy per cent. The seventh sample was another flop.

He discarded all but what was left of the sixth wire. The stuff was about twelve gauge and near enough for his purpose. It resembled deep-colored copper but was not as soft as copper nor as heavy. Hard, springy and light, like telephone wire. If there were at least a thousand yards of it below, and if he could manage to drag it up to the ship, and if the golden thing didn't come along and ball up the works, he might be able to blow free. Then he'd get to some place civilized if he could find it. The future was based on an appalling selection of "ifs."

The easiest and most obvious way to salvage the needed treasure was to blow a hole in the roof, lower a cable through it, and wind up the wire with the aid of the ship's tiny winch. Problem: how to blow a hole without suitable explosives. Answer: drill the roof, insert unshelled pistol ammunition, say a prayer and pop the stuff off electrically. He tried it, using a hand drill. The bit promptly curled up as if gnawing on a diamond. He drew his gun, bounced a shell off the roof; the missile exploded with a sharp, hard crack and fragments of shell casing whined shrilly into the sky.

Where it had struck, the roof bore a blast smudge and a couple of fine scratches.

There was nothing for it but to go down and heave on his shoulders as much loot as he could carry. And do it right away. Darkness would fall before long, and he didn't want to encounter that golden thing in the dark. It was fateful enough in broad light of day, or in the queer, green glow of the building's interior, but to have it stealing softly behind him as he struggled through the nighttime with his plunder was something

of which he didn't care to think.

Locking the ship and leaving Laura inside, he returned to the building, made his way past the mile of cases and cabinets to the machine section at back. He stopped to study nothing on his way. He didn't wish to study anything. The wire was the thing, only the wire. Besides, mundane thoughts of mundane wire didn't twist one's mind around until one found it hard to concentrate.

Nevertheless, his mind was afire as he searched. Half of it was prickly with alertness, apprehensive of the golden column's sudden return; the other half burned with excitement at the possibility of release. Outwardly, his manner showed nothing of this; it was calm, assured, methodical.

Within ten minutes he'd found a great coil of the coppery metal, a huge ovoid, intricately wound, lying beside a disassembled machine. He tried to move it, could not shift it an inch. The thing was far too big, too heavy for one to handle. To get it onto the roof he'd have to cut it up and make four trips of it and some of its inner windings were fused together. So near, so far! Freedom depended upon his ability to move a lump of metal a thousand feet vertically. He muttered some of Laura's words to himself.

Although the wire cutters were ready in his hand, he paused to think, decided to look farther before tackling this job. It was a wise decision which brought its reward, for at a point a mere hundred yards away he came across another, differently shaped coil, wheelshaped, in good condition, easy to unreel. This again was too heavy to carry, but with a tremendous effort which made his muscles crack he got it up on its rim and proceeded to roll it along like a monster tire.

Several times he had to stop and let the coil lean against the nearest case while he rested a moment. The last such case trembled under

the impact of the weighty coil and its shining, spidery occupant stirred in momentary simulation of life. His dislike of the spider shot up with its motion, he made his rest brief, bowled the coil onward.

Violet streaks again were creeping from the horizon when he rolled his loot out of the mighty exit and reached the bottom of the bank. Here, he stopped, clipped the wire with his cutters, took the free end, climbed the bank with it. The wire uncoiled without hindrance until he reached the ship, where he attached it to the winch, wound the loot in, rewound it on the feed spool.

Night fell in one ominous swoop. His hands were trembling slightly but his hawklike face was firm, phlegmatic as he carefully threaded the wire's end through the automatic injector and into the feed hole of the KingstonKanes. That done, he slid open Laura's door, gave her some of the fruit they'd picked off the Oron tree.

She accepted it morbidly, her manner still subdued, and not inclined for speech.

"Stay inside, Honey," he soothed. "We're getting out of this and going home."

Shutting her in, he climbed into the control seat, switched on the nose beam, saw it pierce the darkness and light up the facing cliff. Then he stamped on the energizer, warmed the tubes. Their bellow was violent and comforting. At seventy per cent better thrust he'd have to be a lot more careful in all his adjustments: it wouldn't do to melt his own tail off when success was within his grasp. All the same, he felt strangely impatient, as if every minute counted, aye, every second!

But he contained himself, got the venturis heated, gave a discreet puff on his starboard steering flare, watched the cliff glide sidewise past as the ship slewed around on its belly. Another puff, then another, and

he had the vessel nose on to the front edge of the roof. There seemed to be a .

faint aura in the gloom ahead and he switched off his nose beam to study it better.

It was a faint yellow haze shining over the rim of the opposite slope.

His back hairs quivered as he saw it. The haze strengthened, rose higher.

His eyes strained into the outer pall as he watched it fascinatedly, and his hands were frozen on the controls. There was dampness on his back.

Behind him, in her traveling compartment, Laura was completely silent, not even shuffling uneasily as was her wont. He wondered if she were cowering. [

With a mighty effort of will which strained him as never before, he shifted his control a couple of notches, lengthened the tail blast. Trembling in its entire fabric, the ship edged forward. Summoning all he'd got, Steve forced his reluctant hands to administer the takeoff boost. With a tearing crash that thundered back from the cliffs, the little vessel leaped skyward on an arc of fire. Peering through the transpex, Steve caught a fragmentary and foreshortened glimpse of the great golden column advancing majestically over the crest, the next instant it had dropped far behind his tail and his bow was arrowing for the stars.

An immense relief flooded through his soul though he knew not what there had been to fear. But the relief was there and so great was it that he worried not at all about where he was bound or for how long. Some how, he felt certain that if he swept in a wide, shallow curve

he'd pick up a Probe beatnote sooner or later. Once he got a beatnote, from any source at all, it would lead him out of the celestial maze.

Luck remained with him, and his optimistic hunch proved correct, for while still among completely strange constellations he caught the faint throb of Hydra III on his twentyseventh day of sweep. That throb was his cosmic lighthouse beckoning him home.

He let go a wild shriek of "Yipee!" thinking that only Laura heard himbut he was heard elsewhere.

Down on Oron, deep in the monster workshop, the golden giant paused blindly as if listening. Then it slid stealthily along the immense aisles reached the filing system. A compartment opened, two glassy plates came out.

For a moment the plates contacted the Oron's strange, sparkling substance, became etched with an array of tiny dots. They were returned to the compartment, and the door closed. The golden glory with its imprisoned stars then glided quietly back to the machine section.

Something nearer to the gods had scribbled its notes. Nothing lower in the scale of life could have translated them or deduced their full purport.

In simplest sense, one plate may have been inscribed, "Biped, erect, pink, homo intelligens type P.73g, planted on Sol III, Condensation Arm BDBmoderately successful."

Similarly, the other plate may have recorded, "Flapwing, large, hookbeaked, varicolored, periquito macao type K.8, planted on Sol III, Condensation Arm BDBmoderately successful."

But already the sparkling hobbyist had forgotten his passing notes.

He was breathing his essence upon a jeweled moth.