

One

Ghosts are almost always malevolent and should be given a clear berth.

This particular ghost was over four kilometers long, a giant oval orbiting a planet circling a yellow sun. Only one kind of spaceship was ever built that large: a generation-ship from centuries past, before Igor Kutzmanitov discovered how to bend space right around the laws of relativity. A large number of such ships had been launched in the twenty-first century, carrying everything needed to start a new colony on some hoped-for Earth-like planet out there in the void. Most had been crewed by members of political or religious groups, searching for worlds of their own with the dedication necessary to reach out across time and space, knowing that they probably wouldn't live to see the promised land themselves.

I punched up the silhouette on my information screens. The ship's computer matched it—somewhat to my surprise, since these scouts don't exactly have the master library of Lubriana on them—as a Type IV Generation Ship, launched between 2140 and 2165, probably by an American or West European group, complement at start-off between two and three hundred "with at least five master controllers in deep freeze. As to the actual identity—well, the computer said that seven such ships of that model were launched, and all were Utopians of one sort or another. Beyond that it couldn't go.

I punched in some figures, curious as to how long

the thing could have been parked here. The screen told me that it couldn't have been here more than fifteen or twenty years at the outside, perhaps less than that.

That would mean that the odds were good that as many as all five of the original masters would be still alive.

I sighed and turned to look at the blue-green planet on my port screens. I was paid to find Earth-like or Terraformable worlds; if this one was taken, then there were no gold stars for Bar Holliday on this stop. Seiglein Corporation hardly needed to go at it with a bunch of Utopians.

Even so, I would be expected to do a complete report. There was always the slim possibility of a profit in any discovery, even one like this, and while I'd get a zero for the discovery I'd get pilloried but good for failing to follow up.

I nipped open the communications lines and tried a scatter frequency that should have hit whatever twenty-first-century communications device they were using. The little red light on the panel lit up, announcing a lock, and I called the ship, not really expecting an answer. Even so, there might still be some people on board—or a relay to ground. The ship was in position for a relay if one there was.

"This is Seiglein Scout 2761XY," I called in my most professional manner. "Come in, generation-ship. Acknowledge, please."

There was only a hiss in return, and I repeated the message several times until I was satisfied that the store was empty.

Well, next step in the manual was to go aboard and check things out personally. I didn't particularly relish this idea since the damned thing was bigger than some cities, but regulations were regulations, and Seiglein's regulations book was Holy Writ.

The air lock on the big mother wasn't compatible, of course. It wouldn't be. However, I was able to

establish a magnetic link near the lock, giving me only a meter or so to the lock itself, and I could play with the frequencies until I hit one the lock would recognize. In thirty minutes I was suited up, ready to go, and had both locks open. I prayed their automatics would still work; it would be hell to cut through the bulkhead to get in.

Only seconds after I cleared the big ship's lock, the door slid noiselessly shut behind me, and I felt the pressure normalizing. I looked at the monitor strapped to the outside of my pressure suit and saw that the air was still good. That made me feel better, and substantiated the argument that the ship hadn't been here all that long.

Well, they'd cleaned it out but good. Only the remains of the hydroponics tanks and the animal breeders and such were left. The rooms were empty of personal effects the crew and passengers would take with them, and all was doom and gloom.

The lights still worked, though. As per regulations the standby generators were on so that there was the possibility, however slim, of a quick getaway for colonists who ran into trouble.

There was no sign of anything like mutiny so they'd made it intact. Things looked really good. I tried to get at the bridge log to find out something about the crew and its origin, but the controls were out of a museum;

I couldn't figure out how to work the damned computer.

There was, however, the usual plaque. Every crew mounted one next to the ship's construction-data plate, as if their new home were now a hallowed national monument or something. Which, I suppose, it was—to them.

The ship's data plate said it was the Peace Victory, built by Corben Yards on Luna from parts made in such-and-so U.S.A. and Canada, launched July 21, 2163—maybe the last of these babies, I thought.

The commemorative plaque was a little more informative, although not much.

"Peace Victory," it read, "brings the Communards to the place where they might found the society all mankind justly craves but cannot find under the fascist governments of Earth, no longer home. From this spot began the fulfillment of mankind."

I searched my memory, but couldn't remember anything about anybody called Communards. Communists I knew—we had lots of those—but Communards? A variation, maybe? It was at times like these that I regretted sleeping through my history classes all those years—if the movement had been big enough and rich enough to fund a generation-ship they must have been mentioned there.

Oh, hell, I thought. Communard comes from community and common, meaning they were a group society of some kind, mutual cooperation and all that, sharing all. Probably a damned dull bunch—almost certainly not a bar on the planet.

I made my way back down the empty corridors, the soles of my pressure-suited feet clanging in the atmosphere that procedure said I still couldn't breathe. I got lost twice and had to take advantage of a couple of You Are Here diagrams etched into the ship's walls to make it back to the right lock.

It was there that I saw a sign I hadn't noticed on entering, one that made me suddenly a bit more nervous and apprehensive.

On the door of the lock somebody had used a really hard tool or something to scrawl a crude Don't.

Don't what? I wondered. Don't go? Don't follow?

Or was it just somebody's idea of a joke?

I looked around, but that's all there was. That one lonely, crude Don't and nothing more.

Well, I did anyway.

Two

Scouting is a lonely job, and I'm not the kind of person who normally likes being cooped up and isolated. Occasionally, both at home or on some other planet, people ask me why I'm in this line of work.

It's really hard to explain. For one thing, there is what I must call, for want of a better term, the flyer's mentality. Something in me loves to fly these things, loves to go out among the stars and see them the way no one else sees them, to poke into esoteric corners nobody imagined existed, to experience sights others see only in fictionalized dramas. Maybe that's it, too— there's a little of the hero and the ham in every pilot I've ever known, even the milk-run ferryboat people.

And then, too, it's so damned dull back home. Now they've got one's expected lifespan up past three hundred years, more than two-thirds of it in near- guaranteed good health, and the best free social services around. Nobody has to work, and many don't. They're bom, live their lives in the same community where they're bom, in government flats on the not uncomfortable government dole, sitting around talk- ing about all the big things they're going to do and never get around to doing. Those who do something, who like to push buttons and things and people around, they're in the managerial government or in the nine corporations that keep the resources flowing, provide the services, and thereby run the lives of just about ev- erybody.

I don't know why I turned out different. Bar 31- 5

626-7645 Holliday, raised in Seiglein's Total Care Center #31 along with a couple hundred other infants, was always different. Like all kids, I dreamed—but I dreamed beyond the time of settling, of puberty, and the dole. I guess in some ways I never grew up. I was good-looking, athletic, never any problems with the opposite sex, but I was troubled by things that others weren't. I'm not sure what—I often think of those days and wonder. One thing is that I was never satisfied with anything other than first place in the things that interested me—particularly sports. I was competitive, no doubt about that. And the Seiglein Corp. loved that kind of oddball, encouraged him, nurtured him, until they had put him right where they wanted him.

Maybe that was it—here I was, out in the middle of nowhere, looking into places nobody else had been before.

First.

To find some more resources for the billions on the dole on the hundreds of worlds, to find more worlds to house more billions who would turn them into more plastic places.

That was a system?

I don't know. Somehow I always thought of Seiglein and the other corporations as being in the vegetable- growing business.

Well, I wasn't a vegetable, or, if I was, I was a unique kind of vegetable.

Out here, the only one in charge of my welfare and destiny was me, the way it used to be in the old days, the way I'm convinced it ought to be.

I fed the data on the Peace Victory into the scout's computer and stared again at that pretty world out there. Looked a lot like Earth was supposed to look —I'd never been there, but I'd seen pictures. Definitely the best prospect I'd ever found, and, dam- mitall, somebody else found it first.

Well, next step was to survey the place in prepa- ration for landing.

Those Communards, whatever they were, sounded like ripe candidates for Seiglein Products.

Still, that scrawled Don't on the inside of the air lock bothered me. Something kept nagging at me inside, and I decided that this one would be played safe. Budget be damned, I was going to scout this place as if there were nobody home.

I set up and shot a survey probe down to the planet. Hell, I couldn't even name it—they'd already named it somewhere. A little less immortality for Bar Holliday this time around.

The probe broke, leveled off at about 10,000 meters, and started doing a survey. The optics were quite good, and the magnification was superb. I could find out most of what I wanted to know from my command chair.

The thing started shooting stop-frames every three seconds, and I got a look at this world. It looked nice, even sort of familiar. Four big continents with irregular coastlines, huge blue oceans, vast plains broken by large lakes and rivers, and a number of tall mountain ranges. Even spotted a few volcanoes, so the place was still very much alive and active.

I hadn't seen any signs of human life as yet, but that was to be expected. At this stage I wasn't looking for people, and even if Peace Victory had been parked for twenty years there wouldn't be very many folks there yet, just some still getting along on the stuff from the ship, others living a primitive, self-reliant life in the best spots.

The place was warm; the south polar cap was small despite calculations that said it was winter; in summer, it probably vanished completely. The axial tilt was about nine degrees, not enough to cause severe seasons anyway. The mountains in both hemispheres had snow, though it was a little more pronounced in the southern hemisphere.

I shifted the probe to the commercial spectrum, and whistled. Lots of nice stuff down there still in the ground—they sure had the resources for a nice little world.

Heavy forests in the north and south, but a broad band around the center, about forty degrees on either side of the equator, seemed to be tropical savanna broken only by the mountain ranges. North Pole temperature -4° C. South Pole -9° , not bad at all. Equator was hot—over 50 degrees C, but the savannas generally ranged from about 20 to a high of 29. Very good.

They'd reached the land of milk and honey, all right. I tried to imagine them as they first explored it, probed it, realized what they had, and excitedly got ready to found their perfect society or whatever it was. If they had gods, they were definitely on their side.

I took a mid-savanna frame and held it, blew it up in register until I could have seen a pinhead on the plains.

Animals. Lots of them. Damned weird ones.

Took about two hours to get a really good, clear shot of them, unblurred and in perspective, but when I did I had to stare.

Now, I've been around a lot of the unknown universe. So far we haven't found any alien civilizations or really intelligent beasties, but the animal and plant life has been roughly logical. This place was so close to Terranorm that I half expected to see the usual animals—most of the plants did appear variations of existing types the environment would produce according to evolution's laws.

But these—well, they looked like they'd been designed by a committee that had debated what it was to be and never really decided. The creatures were a compromise.

Their heads were overlarge but somewhat human-old, although rough-hewn. Long, thick whiskers, like a cat's, drooped down almost to the ground. Their

ears—well, I'd seen donkeys in zoos, and that's about the closest I can come. Huge, long, almost a meter high, and they seemed to be able to turn them independently over at least a ninety-degree range. Two horns, fairly long, rose out of their heads above the eyes, terminating in flat membranes, purpose unknown. The male's horns were grand—they curved around once before straightening up again; the female's were straight and slightly shorter. And those eyes— weird. Jet black. No, I don't mean the pupils—the big eyes were like obsidian, from lid to lid.

Their bodies were equally incongruous. Again I have to go back to Earth animals I've seen in zoos and picture books. The body was like a giant kangaroo's, complete with massive hind legs which ended, not in big feet, but in large hooves, like horse's hooves. Their forelimbs were very long, since then: bodies put them at an angle, but very horselike.

And all of this ended in a large, flat bushy tail, like a squirrel's, proportional to those bodies and fully as long.

I put the probe on hold and started watching a group of the beasts. They could stand erect, maybe two

meters or more tall, resting on that tail, but to walk or eat they needed to be on all fours.

Did I say walk? Well, they hopped. Damnedest thing anybody ever saw. They would kick off with those hind legs and go real fast across the plain like a kangaroo, then settle on those forelegs. They couldn't walk as such—while the forelegs were independent of each other, the rear ones were locked together, obviously had to move together.

Their genitals looked to be oversized versions of the human type, but the females had no sign of breasts—although two large breastplates on both males and females suggested that they might once have had them. Both sexes also had large pouches below those plates, both carried young in them. Their bodies

were covered by a greenish-blue fur, their faces a dark brown.

They were herbivores for sure—they would kneel and start chomping with great appetite on various plants. Flat teeth, a side-to-side chewing motion, and large, flat tongues.

I stared at them for what must have been hours, wondering what could possibly produce such things. What conditions would develop them that way?

They had no hands, no tentacles, so they had no tools—yet they did have artifacts of a sort. I caught a frame of something weird and blew it up.

It was a village.

Yes, a village, huts and all. All made out of something white and milky, like spider's web but looking much, much tougher and stronger. These things lived in them.

And as I watched, fascinated, I saw how they built them. There seemed to be a flap in the tongue.

They'd pucker their mouths, and stick out the tongue, and out would come stuff with the consistency of rope, but like paste. They could build with it—very quickly, too, I noted—and I couldn't imagine where the material to make the stuff was coming from. A byproduct of the grasses they ate, maybe?

Reluctantly I turned my attention to other animal life. It was there, of course—some of it as strange-looking as the herbivores, but much of it more conventional. All around were birds, and insects, and smaller animals of various kinds. None looked quite right, but none looked as wrong as the chief creatures of the plains.

The air check I'd made at the beginning showed the world to be more humid than Terranonn, but that was about it. Nitrogen, hydrogen, oxygen there in nice balance, just below normal—most of the deviation being extra hydrogen, which accounted for the wetter climate—and inert gasses in essentially meaningless fractional percentiles.

I could breathe the stuff without discomfort, except that it would probably feel like a wet blanket. No deserts of more than a few thousand kilometers, all on the lee side of mountains or on a few very high plateaus.

I dropped the probe for a complete sample, then sterilized it except for the little specimen compartment. Once back, it was put through its paces in a vacuum chamber, probed, prodded, and analyzed much as the colonists must have done.

The usual types of microorganism. Nothing looked threatening.

Next came the search for the colony itself. I sent the probe back out, and did a complete habitation survey. I found lots and lots of those web villages, and lots and lots of herbivores, but no indication of any human habitation whatsoever. After almost a day and night in probe status, I hadn't uncovered the slightest sign that human beings had ever landed on the planet.

Suddenly that scrawled word crept back into my conscious mind.

I was about to scoot back to the nearest relay station and get some advice—and maybe some heavy scientific artillery—when I suddenly remembered that twenty-first-century ships used nuclear fuel. Well, there was a lot of uranium and such here, but if their ship had landed, repeatedly landed, in a single spot I could find it. I ran one last probe on that guess, and hit pay-dirt.

The patterns were there, all right—big overlapping circles of weak radiation, and an indication of a small amount of something hot that was just about what their power pack would be.

But no sign of people around anywhere, and no sign of the ship that power pack should belong to.

I decided to get some sleep and continue when I was refreshed. A mystery was here, deep and unusual, and I knew that the odds were that I shouldn't try it myself. Even so, it's in my nature to try any problem.

If I could solve this one I would have more Seiglein feathers to add to my cap. Here was a challenge, and

I never could resist challenges.

I knew I'd go down in full suit and armor to take

a look.

But why did my mind insist on flashing that contradictory scrawled message to me as I made that

decision? Don't, it said.

The next day I sent down the bioprobe with a nurd inside. A nurd is a small organism from one of the Altarian planets that resembles nothing so much as a little rubber ball. That's about all it is, too—oh, not rubber, but it's biochemistry, while strange, is simple and the variables can be easily isolated. The things store in the deep freeze, too, and are susceptible to almost all diseases that might affect people—just about

the perfect lab specimen.

The probe landed near the radiation zone and picked up some soil and air samples. The probe also let the nurd drop, bounce, and then neatly caught it again and popped it back inside. I immediately triggered the takeoff sequence, and while the liftoff friction sterilized the outside I ran the inner sterilization sequence so that only the tiny biological chamber, now suspended in a vacuum, remained from the

planet.

Once back aboard, the automatic lab analyzed,

probed, and poked here and there. It took about an

hour to give some results.

The place was filthy with microorganisms, of course, but none of them seemed able to survive in the nurd. Nice. And normal. Rarely do the organisms of one world have any real effect on those of another, unless it's a lethal one. Only one organism, which was almost unnoticed it was so microscopic, seemed to have any compatibility factor at all with the nurd or with people, and that was a very primitive virus of some sort.

Blown up several million times, it barely showed on the screens. It didn't die or run from the nurd's cells, but neither did it seem to have any effect on the little ball-like creature. Like most of its type, it resembled a small honeycomb. It did seem to be a fast grower—I could see little sprouts off the ends of the colony slowly inch their way up what might have been a fraction of a micron—yes, it was that minute—and slowly form a new little protocell. This was much more rapid than anything I'd observed before—usually you can't see it happening, you just come back later and more of them have shown up—but after a few hours it seemed to reach the limits of its growth in the nurd and turned dormant. There was no effect on the nurd's temperature, biochemistry, or other vital functions, so it was probably safe for me as well.

But then, that Communard colony would have done much the same thing, been just as careful, and yet—where was it?

Everything checked out, and so now came the last- resort decision—turn for home and help, or go on down myself. Something in me said repeatedly that I should get out, but my stubborn, adventuring streak took over. I had been challenged here—somewhere down there should be a colony, thousands of people by this time, maybe farms, roads, and the like. Even if something unforeseen had wiped them out, there should be artifacts—shuttle ships were tough. Any- thing that could totally destroy one would be so damned obvious nobody would land.

Well, they'd landed. Down there. On that spot. Were they hidden, perhaps? Underground? I'd have to go down to find out.

I surveyed the area again. A broad, flat plain at the base of low, rolling mountains. There, two rivers formed valleys, came together in high grasslands, then still shallow and rocky, began to meander into a flood plain.

A large herd of the impossible herbivores was graz- 13

ing on the plains, and the area was rich in other wild- life as well. I decided that I would not try the patience of those weird-looking, grass-eaters; their legs had tremendous muscles, and could probably break every bone in my body without any trouble.

The creatures continued to bother me; they had no right or justification in this setting. Something nagged at the back of my mind, but I couldn't bring it forward;

something I'd seen that related to all this. I had to let it sit, hoping it would come out when it was ready.

I still had a mystery here, and I didn't want to chance those microorganisms no matter what they did or didn't do to the nurd, so I suited up and took an eight-hour supply of air—it was all recirculated but the size of the initial supply and the filtration made the limits—and my portapack, which would link me with the computer on the ship and its analytical facili- ties.

I touched down on the plain near the spot where

the last of the mountains met the river. Animals scattered, probably fearing the whine of the large object settling down among them more than the object itself. I shut off the drive and moved to the air lock, feeling my usual extreme discomfort at suddenly having full gravity again after a long period at half-G.

Here it was one G—no, not exactly. A little more, but close enough. It was always a shock to my system, though, to remember suddenly how much weight

it had been carrying for so long.

The outer lock opened with a whirring sound and I lowered the little steps to the ground. There was no danger in leaving the door open; the inner door was solidly shut, and the computer would respond only

to my own codes.

The ground was soft, slightly muddy, probably from

a recent rain. It rained quite often around here, and the grass, a blue-green, was extremely tall and vibrant-looking.

I immediately saw why the native animal life had

such tough skins, though—the grass blades were very sharp, and would be a problem to anything without protection. Near the base of the adult grass were several slightly munched tubers or growths the consistency of potato or apple inside. Although they were hard and not easily crushed, they were apparently another part of the diet of the herbivores.

I stopped and looked around carefully. The instruments said that their shuttle had landed, not once but many times, near this very spot—yet there wasn't a sign of a ship that had to be a great deal larger than my own not inconsiderable craft.

Nothing.

Some of the animals had ventured back into my landing zone. Their curiously humanoid faces were uplifted, and some were sitting upright on their bushy tails staring at me with those strange, all-black, glassy eyes of theirs. They didn't make a sound other than when moving around, but their long ears were obviously turned to me and the funny membranes on top of their horns quivered slightly.

I had the distinct impression that I was being watched.

Suddenly feeling a bit nervous and overexposed, I checked my pistol for full charge. I made my way cautiously to the river, which broke the grasslands with a line of trees and an orange-brown, sandy soil.

The river itself rushed and gurgled along, perhaps a kilometer wide but only fifteen or twenty centimeters deep.

The feeling of being watched persisted; and I had been around enough to trust my instincts. I whirled around and saw that the creatures of the plain were following me, still looking at me with rather too much intelligence and still maintaining about a fifty-meter distance.

Near the river were other, more normal-seeming animals. One looked like a tiny mule, another looked

something like a squirrel although it had a long snout and was obviously semiaquatic.

Something that looked like a meter-tall hare skipped rapidly through the brush, so comically I chuckled in spite of my tension. It looked like what the big herbivores should look like.

There was another animal, somewhat pig-faced but with long, menacing horns, and its nasty expression proved a bluff as it ran squealing when I approached. Insects of various kinds buzzed around, and there were a few types of bird, although they looked more like lizards and seemed to do more gliding than flying as

they ate the insects.

Two things struck me: the lizard-birds were the first carnivores I'd seen on this planet, anywhere— and, except for the buzzing of the insects, the rushing of the river, and the rumbling of a light wind, there

were no sounds.

The place reminded me of a game preserve, protected and well managed. Yes, that was it—a game preserve for npnpredators. But—if so, what kept the population in check? And who ran it?

I walked into the river, watching my step on the rocks the fast-moving water was slowly pushing downstream, and started heading up to the split. That would be where J would start my first town and center

if I'd landed as a colonist.

The big herbivores didn't venture into the water, but they did slowly pace me along the bank. I could see them trying to slow-hop, or drag their heavy bodies along by the power of their front legs alone.

There was a settlement on the point where the two rivers met, but it wasn't a human one. It was one of the curious villages the herbivores built out of spit. Closer up, it looked even more impressive—a broad main street, a network of small buildings constructed with infinite care, many of them looking to be the same kind of standard one-room dwelling; a few oth-

ers larger and grander, one even having a point and two subsidiary spires.

Sooner or later, I knew, I would have to face them, but I preferred not to at this stage. I needed to know more, as unaggressive as every animal here seemed. I stopped.

The herbivores bothered me for reasons other than their looks. All evidence said they were somewhat intelligent; the village looked as if it had been thought out rather than built by instinct. Their actions toward me seemed intelligent, too. And yet—well, everything I'd ever been taught about exobiology said that without the ability to handle tools the evolution of a complex intelligence was impossible. But was it?

I seemed to recall that back on Earth they'd had some kind of sea mammal, a dolphin I think it was, with intelligence, language, a large brain—and nothing but its mouth. But that animal had developed in a stimulating environment; it was soft like people, had to live in a medium that could kill it as easily as it could kill me, and had lots of predatory enemies. It had to outthink that sort of environment or die.

No such pressures existed here. Plenty of food, fine climate, no predators.

Then suddenly that nagging, pestering thought that wouldn't focus became clear. Those creatures were designed by a committee, a committee with very little imagination. I had seen most of the disparate, component elements of their bodies—the horns, the tail, the long ears, the hind-leg arrangement—in terms of other animals. I would probably also find an animal that built by spitting silk somewhere, and marsupials of various kinds all over. The forelegs were based on the mule.

Those creatures had been assembled from patterns drawn from the natural denizens of this world.

They hadn't evolved, they'd been made up.

They were somebody's biology experiment. 17

It was hard to believe, I didn't want to believe it, but there it was. Whoever had done this was damned

good if not overly creative. The colony—those herbi-vores were the colony!

"Oh, my God!" I breathed aloud, both in wonder

and in fear. This was somebody's game preserve, and if you

moved in you were incorporated into it.

I suppressed my panic and thought things through. Supposing these creatures were the colony? They could hardly have populated the planet in the single generation they'd been here, even if they had a dozen young every month or two. No, the number in this colony was right, but where did the millions of others across eighty degrees of latitude come from? Maybe I was lacking part of the puzzle after all. I decided to take the bull by the horns and go back to the ship and try to face down my curious but distant companions. Given their intelligence, it might be

possible to establish some sort of contact.

I made my way back down the river and eventually spotted my tracks on the bank. Coming through the trees, I was back on the plain—and stopped.

There was a new mountain where the ship had been left; consisting of the hard spittle web these creatures

spun, it rose in a huge dome. They had completely sealed the ship in the stuff

in the two short hours I'd been gone.

Thoughts of contact forgotten, I got mad. I didn't like being played for a sucker, and I wasn't going to let anybody get away with it. I walked up to the milky-white wall and pushed.

It was hard as a rock. Well, okay, then, I thought, determined, I have

something that will go through a rock.

Standing off to avoid any sort of beam splatter, I put the pistol on full blast and fired its blue-white

lightning at the shell.

I could see an area start to darken, a little smoke

rising up. The stuff was tough, but it could be broken.

Suddenly the pistol stopped firing. Puzzled, I looked at it, and examined its charge meter. There should have been a half-hour's worth in there, but there wasn't. The meter was dead.

And, so, in fact, was the pistol. I watched in horrible fascination as the plastic corroded before my eyes. On impulse I squeezed and the thing crumbled like so much pumice.

Mad and scared, I took out the portapack and told the computer to take off.

The portapack was corroding before my eyes as I tried to send the codes. Within seconds it was useless; within minutes it was in the same condition as the pistol.

Suddenly my suit felt funny, and it became hard to breathe. I knew what it was—the agent that had nabbed the pistol and portapack was at the air-filtration system. Within another two or three minutes at most, I would have to get out of the suit, the ah" would just run out.

I screamed in fury, rushed to that web-wall separating me from my world, and banged my fist against the charred spot I'd made. As I did so, my gloves crumbled, and my hands were exposed to the outside air, yet I continued to pound in utter helplessness and frustration, making little cuts as I did so.

Nobody had ever beaten Bar Holliday before.

Three

In about an hour it was all gone. I sat there in the grass, naked, my head in my hands. Nothing remained of my own artifacts—all had crumbled to dust.

Something in me refused to admit defeat, even in the face of such unknowable, unguessable power. What could have caused the total destruction of my things? Particularly so quickly and completely? A ray? Nothing in the air surely—that had tested out pretty well.

Or did it? The tests had always been reliable before, sure, but they were still guesses. They tested only for things man had thought of, had imagined or encountered in the past. The computers couldn't answer questions that hadn't already been asked. That was why human beings were still sent out as scouts.

The trouble was, I thought grumpily, the humans had forgotten why they were sent. I was a creature of my devices, my machines—I depended on them

utterly.

Now what? I wondered. Do I join the colony? How do they do that?

And who were "they"?

I got up, suddenly feeling hungry. The grass was the only thing around, but my system definitely wasn't made to eat it. I thought briefly of suicide, but that would be an admission of defeat. No, I couldn't do that—I couldn't give them the satisfaction. I was not defeated as long as life and thought remained in me, and I would survive somehow. But to survive I had to eat.

I looked at the tubers at the base of the plant, and with some difficulty, I pulled one free. They seemed edible—had a kind of nice, sweet taste, like a cross between a pear and a domesticated apple. Not bad, although a little hard to chew. I almost choked to death on a piece a little too big, and learned that I had to nibble.

Several of them went down, and they were wonderful. The more I ate, the more I wanted to eat, and I found myself consuming them as quickly and as greedily as I could find them until, finally, I was so stuffed that I could feel the backup in my throat.

I awakened suddenly, as if from a dream, and realized what I was doing. For the first time in I don't know how long, I thought of something other than eating. Why?

What had induced that incredible hunger in me? And for what purpose? It was clear that nothing on this world happened by chance.

Then it came to me. Raw material. If I was to be changed into one of the herd, then raw material was needed to begin the conversion. I felt sure that I would continue to be hit by starvation spells that could only be satisfied by eating the tubers that would turn me into raw material for them to do with me what they wanted to do.

I looked around and saw many of the herbivores watching me intently, and I thought I could detect both sympathy and sadness on their all-too-human faces. Many of them must have gone through this as well, I realized. They understood.

I wondered how much they understood? Did they know, even now, what had done this to them?

I decided that now was the time to make contact, if possible, but when I started toward them I felt dizzy and eventually had to stop and sit in the grass, which stung as I settled.

I felt strange, funny—like I'd never felt before. 21

Not sick, really, but tremendously tired, disoriented. I wanted only to lie down in the grass and go to sleep, which I did.

The crash-boom of thunder and the pelting of rain-drops woke me. I was still in the field, but the sky was now ominously dark and a big storm was almost upon me. I got up and decided to make for the trees near the river, a place that would at least afford some shelter. I felt really good—not high, just excellent. I sprinted for the trees, still conscious of the stinging from the grass, and made it just before the big deluge hit the now-empty plains.

More or less protected by the trees, I settled back and examined myself. As far as I could see, I hadn't changed in any significant way. I relaxed a little, glad that I hadn't awakened a monster.

So what had changed? I wondered. Where had the mass of tubers gone?

The temperature had dropped dramatically with the storm, and I shivered a little in the chill, which was bad only if contrasted to the temperature before.

Suddenly I knew where some of the tubers had gone—I had to take a crap, badly, and I had to do it au naturel. Well, it wasn't the first time, although in the past I had always had more than cold water to clean up with afterward.

The storm lasted over an hour and then rumbled audibly along down the plain for some time. The area remained cloudy, though, and looked a little threatening, even though the temperature and humidity started to climb back up with astonishing rapidity.

Soon I was perspiring all over, and I felt as if I were covered by a thick, wet blanket. The situation obviously was still too threatening for the herbivores. Some of the other animals were out, but not them.

After about a half-hour, I decided to make my way down to the village. Before I could get started, though, I was starving again.

This time the orgy seemed to last much longer and included the grass as well as the tubers. Everything seemed to taste wonderful, and it was a long while before I could get enough of it. When my appetite subsided I was so stuffed that I finally had to spit out the remains of grass-and-tuber mush from my mouth. Having learned my lesson, this time I just sat down rather than trying any activity.

I knew I was right about one thing, though. The stuff that I was eating was to give the transforming agent something to work with. The fact that I ate the grass was in itself remarkable; the fact that it neither cut the insides of my mouth nor tasted bad at all was even more unusual. A great many changes had been wrought in me, all internal.

I wished I knew how long this nonsense would take. Obviously I could do nothing constructive until the process was completed. I resigned myself to it.

When I awoke the next time, it was morning. I had slept through the entire night—or had I been in some sort of coma?—and the clouds were now broken, the warm sun peeking through. The plains were again stirring with life.

Lying there, I wondered why none of the colony had yet come to me, tried to contact me. I was afraid for a moment that they couldn't, but, I asked myself, why should they? To what purpose, as long as this process was going on? Plenty of time later for introductions.

By this time some of the changes were external. I was starting to grow body hair of the greenish-blue hue I had noticed earlier, and my skin was turning darker and becoming tougher. The grass no longer stung me nor cut as it had. I had that exhilarated feeling again, euphoric, sort of. I felt neither hungry nor thirsty, but I made my way back down to the river, hoping to find some spot which would give me a reflection.

Scouts, it was said, were picked because they alone 23

possessed a thousand unique traits necessary to perform their duties; one, certainly, was the ability to accept and adjust to alien experience, something that, in this extreme circumstance, was surprising even me. I wondered sadly how many of that doomed colony had taken their transformation so calmly, how many had, perhaps, committed suicide or gone mad. It must have been a horrifying experience, first to see all of their possessions, their artifacts, dissolve about them, then to go through this slow, uncomfortable process.

Still, I didn't have a clue as to who was behind the transformation or how it was being done.

I searched the river bank for several hundred meters until I found a small pool of water isolated from the torrent by debris and still enough for a reflection. When at last I looked, there were changes indeed. My face had already begun to take on that broader cast, my mouth was wider, and, when I opened it, I discovered that my teeth were being replaced with larger, flatter ones. A little experimentation showed that I could chew from side to side. My tongue was much larger and thicker, a pale gray in color, and I could see the rather large flap at its tip. My arms were longer—my hands came down to my lower calf—and they seemed rounder, more sinewy.

Shortly thereafter that insatiable hunger came and I was off again. This time it was difficult to make my arms bend to feed myself, and I started taking in huge gobs of grass and grabbing tubers with my mouth. They were easier to eat now, and everything chewed better, went down smoother.

Again I slept, and when I awoke the sun was high overhead, the plains teeming with life, much of it watching me but making no move in my direction.

I tried to reach up to wipe the sleep from my eyes but found that my arms would no longer bend to that purpose, only back. I looked at them, and they were getting to be thick, long, horselike legs. My hands were lumps, not quite hooves as yet but on the way.

I was on my side, and rolled over, getting unsteadily to my feet—all four of them. The back ones only moved in unison now, and I wasn't constructed quite right to use them properly as yet, so I could only pull myself along unsteadily with my forelegs, down to the river again, to my still reflecting pool.

Things were developing fast now, I saw. My metabolism must be racing hundreds of times faster than normal. The only way this could be done was by some variant of cancer, some mutation inside each cell of my body which, when completed, stabilized and reproduced itself, discarding the old cells. I once heard it said that the human body completely re-placed everything but its brain cells every seven years. My metabolism was enormously speeded up, I knew—that would explain the euphoric feelings, the constant fatigue, and the frequent spells of insatiable hunger. Everything worked out down to the smallest detail.

Well, they'd had a lot of practice.

My body hair and chest plate were complete now, I saw in the reflection, and my face was now fully that of the plains herbivore, although, curiously, it retained enough of me to be recognizable. The ears were taking shape, but seemed unformed at this point;

there was, as yet, no sign of the horns or, I saw by twisting around, the tail.

Soon I was starving again, and it was back to the fields. I was like a robomower; kneeling, face practically in the dirt, I gobbled up tubers and grass at an amazing rate. I also gobbled some dirt and small pebbles, and it didn't seem to matter—in this state I could think only of eating.

I awakened again near dusk, noting that it had rained on me. Everything was wet, yet I'd slept through it all.

I was again on my side, a larger bulk than I'd started as, forelegs and the like now fully formed. I

found that the front hooves were not quite solid; they divided neatly into thirds with some movement possible. I could open to form a gap, then close on an object.

Not exactly hands, and neither could you grasp everything nor use it much once you had it, but I had some control. I was sure there was a reason

for it.

I got up on all fours. The hind legs seemed firm and sure, and I decided to experiment a little, I kicked off and leaped a good ten meters, but came crashing down, unable yet to steady myself. It hurt, and I felt bruised and a little defeated, so I made sure to take it slow and careful thereafter. This running and jumping trick would take some practice.

I couldn't walk, but had to hop, and it took a lot of spills before I could do even a slightly fast jog without falling down. But I felt sure I'd have the movements down pat in a couple of days. I had to- it would be the only way I could get around.

I was also conscious of my ears. I could feel them—I could feel almost every part of my body—and I could move them, even independently.

And I heard.

Voices far off in the distance, high-pitched and oddly distorted, but I heard. There were a lot of such sounds—almost a cacophony of noise, impossible to sort out into its individual components.

Everything, I realized, made noises here.

That the ears were a lot more sensitive than my old ones I had no doubt, but why had this been a world of silence before? I considered that. Perhaps the sounds were all too high-pitched for human hearing? I hadn't really adjusted the suit for anything outside the human spectrum.

It was too dark to see what I looked like, even if I could get all of myself to the pool, so I decided to wait until the next hunger bout before worrying about it. I knew what I was going to look like when I was

finished; I could only explore the body fully and learn its limitations when it was complete. I practiced running. Still not much of a tail, therefore so much for standing, but I could feel the beginnings back there. It wouldn't be long before I resembled the herbivores in this respect, too.

Although I had no way of telling time, it took an abnormally long period for the next eating spell to come on. Perhaps, near the end of the process, you started slowing down to normal.

When next I awoke, it was still dark. Strange that I could feel the warm sun on my back as I got up, yet I couldn't see a thing. Then it hit me:

I was blind.

There was no question about it. I could hear the life teeming around me, hear the rush of the waters off in the distance, hear the wind and the flying things overhead, the insects buzzing about.

But all was darkness.

I stood still on all four legs, trying to get my bearings. As tough as it had been to run the evening before, running blind would be impossible. These people couldn't be blind, I told myself. I had watched them moving, running, leaping—and they built. It must be some kind of change in the optic system, I thought desperately, remembering the strange eyes, like pieces of shiny, polished brown glass, that filled them.

The sounds were enormous; they seemed to flood in, confusing and consuming me. Even so, I could hear ... voices.

Yes, voices definitely, but how far off I couldn't tell. Thin, reedy, high-pitched, but recognizable voices at that.

A crowd of them, all talking at once. It was a mob; there wasn't much chance that I could pick any one individual out.

I was conscious that the tail was in place now. I could wave it, bend it, make it freeze in any posi-

tion. It was as long as my body, and bushy. I was conscious of a lot of insects buzzing around me and discovered that the thing was an effective device for brushing them away.

I wondered about the horns. I kneeled down and put my forehead almost to the ground. Yes, they were there, but short, stubby, and, to judge from pressing on them, crooked. Not quite in yet.

One more time, I thought to myself. One more and the job will be done. Once more and I'll be able to join the group, find out what's going on, make plans to free myself of this curse.

I stood there, trying to catch any part of the conversations going on around me. The language was familiar, and I did catch a few phrases here and there, but it wasn't much use.

I wanted to call out to them, but I decided to wait, wait for the final steps of the transformation. It was obvious that the herbivores were deliberately keeping away, but keeping an eye on me, until the process was complete.

Because I was blind and not able to do much of anything, I practiced sitting up on my tail a few times and took spill after spill. Finally I managed it, repeated it, did it a third time.

It produced some interesting sensations once you got the knack. The last thing I'd been thinking about up to now had been sex, but this standing up on hind legs and tail made a forceful point.

As I said, I was extremely aware of every part of my body. Most of us aren't—we're aware of our various parts only when we use them or abuse them. Not this body—you felt every muscle, every nerve, every appendage. This included the penis, which in the four-footed position wasn't much. Standing, the organ proved to be an extremely long bony tube, straight out, and switched to the ejaculation position automatically. Sex was obviously a stand-up affair here.

I could feel the heat of the sun shift a good deal

before I started to get the glimmerings of hunger. Eating blind using only your head and mouth is tough, but the starvation imperative, present to this time, was missing. Time, which had raced, now was dragging, and I ate only to get it over with.

I didn't eat nearly as much this time, nor quite to stuffing, and the process took some time. Even so, when I felt full, that familiar tiredness came on and I knew I was fading out for what might be the last time.

I looked forward to the rest, fearing only that I would wake up blind still.

"You awake yet, young fellow?" a high, mellow voice asked, concerned.

I groaned and stirred a little, forgetting for a moment where and what I was. It was unlike coming down from the other sessions; I felt as if I had really been asleep this time, and I was a little shaky and achy.

I opened my eyes, gasped, and shut them again.

"Oh, my God!" I managed, my voice sounding odd to my ears.

"It takes some getting used to," the strange voice admitted. "You'll get the hang of it with practice. Might as well start—get to your feet and I'll help you."

I used the tail as a side brace and got unsteadily to my four feet. Again I opened my eyes and stared.

Once, as a small child, I had experienced a kaleidoscope—you turned the thing this way and that and got an ever-changing variety of strange shapes and colors. I'd seen similar effects done electronically by television, too.

What I saw was like that, only infinitely more complex—and without clear borders. Some colors flashed and whirled and spun, some stayed put, and there were more shades and hues than I could imagine, a few so odd-looking that I could never have imagined them before. What I saw was a series of fuzzy impressions, though, without form or shape.

"Is this the way you see?" I asked my unknown companion. "Lordi What does it all mean?" 30

"It's actually a better system than the old one," the other replied. "It's just that your brain isn't used to or prepared to accept the different input. Look, want to focus? Turn in my direction now, and feel those horns on your head. Feel them? Good. Now concentrate on them."

I tried what the other said, and suddenly the world exploded. The colors became sharply outlined as odd, distinct shapes. I could count the blades of grass, see the tiny bugs moving—not as pictures, really. No, it's hard to explain. Shape, size, texture, distance—all there, yet not optically. It still looked strangely electronic, totally unreal.

The other, now—I focused on him, seeing him in three dimensions yet not seeing him at all. He looked a pale blue, like a negative, though, and while I could literally count his body hairs and see how long each was, he seemed to be drawn on a telescreen which was constantly holding only a brief image and then being completely redrawn.

"No, it's not seeing," he commented, reading my wonder and puzzlement. "You're sending out thousands of tiny pulses per second from those membranes on top of the horns, and these are being returned to your ears and fed to the optic centers of your brain. Move your ears to the side and you'll see."

I did as he suggested, and the sharp images faded into color blurs directly in front of me, and new images started forming at the periphery of my vision, with less and less of the color in them. When my ears were rotated as far around as I could manage, the images to either side were uncolored, stark electronic white etched on pure black.

I brought my ears back around, and the colorful imagery returned to focus.

"The eyes are extremely color-sensitive, far into the ultraviolet and infrared," the creature explained, "but have nothing for definition. That's provided by the sonar, which is nondirectional and works for a hundred

and eighty degrees in front of you. Just turn your ears to catch any part of the signal. That gives shape to the colors, and gives you extremely accurate depth perception. The only cost is in fine detail—you won't see much in the way of small detail unless you focus strictly on a small area. I probably look a solid blue to you, yet when you stared hard you saw the tiniest hairs on my body to the exclusion of the whole image. You can look close-up or panoramic, but not both."

"This is incredible," I managed, and it was. Things looked strangely alien, artificial. Objects faded in and out, outlines were sometimes clear, sometimes shaky. Interestingly, I could not see the horizon or the sky—they remained a dark blank against which the shapes and colors were etched.

"Where's the horizon?" I asked. "Doesn't reflect sound. You'll see everything that you get an echo on; everything else just doesn't exist. Don't worry—you'll get used to it."

"The grass was blue-green," I noted. "Now it looks

pink."

"That's a food color," my guide responded. "The colors don't really correspond to anything you'd have seen with your eyes. Everything pink you eat. There are subtle details you'll learn as you go along. For example, blue is a male color, green a female one. All sorts of signals—thousands of them. In a few weeks you'll know most by reflex or experience."

I shook my head. All of this bothered me. Being an alien was bad enough, but being this alien was more than I could accept. It put additional roadblocks in the way of my ever breaking the bonds that held me, of beating the system. I had the uneasy feeling that this was the purpose of much of the design—it met all your basic needs, but severely limited any attempt to break out of the preordained social structure. Those colors—

they built habit patterns.

"You're from the Communard colony, aren't you?" I asked the man, trying not to dwell too much on dark

thoughts. I was in a trap, and much needed to be learned if I was ever going to break out.

The man nodded. "Yes, I am George Haspinol, one of the masters for the trip. We divided up the place into districts, tried to get things in at least a rough social organization. It's worked, after a fashion, although we've spread so much now that I have no idea if all the original institutions still exist. We've been here a long time."

"You saw me come in, didn't you? Why have you waited until now to make contact?"

"Wouldn't have done much good before. When you stepped out onto Patmos you were already committed, too late to back out. We knew what would happen. You couldn't have heard us anyway—so why bother? After you started changing, your body rate, time rate, and such were so altered that you were out of sync with us. When I saw the horns start, I came over and kept a vigil. Plenty of time for talk now, anyway. That's the thing we have the most of here."

"You called the place Patmos," I noted. "That your name?"

The man's blue altered slightly to show some emotion. "Of course!" he responded. "You mean you never heard of Patmos? It's in the Bible."

I nodded. I knew what the Bible was, but hadn't ever read it. As I said before, I slept through my history classes.

George interpreted my silence with the perception that made him a master.

"I can see, then, that Christianity's fallen in the march of civilization," he said sadly. "Well, it was inevitable. One of the reasons the Communards left."

"So you were religious, not political," I responded. "With the name Communard I'd assumed—"

"Communism?" he sniffed. "Well, in the purest sense of the term, yes. We shared much of the same philosophy and goals, but differed with them on matters of the spirit. Both dreamed of a world without

want, violence, or fear, where all would have enough and live in peace and equality forever. It's just that we could never accept the promise of fundamental change in human nature from within; we felt that a change could only come through God's grace. Communism is in itself a religion, with holy books, a god figure, prophets galore to interpret him, and a heaven which would come from a sudden, miraculous, scientifically unfounded change in human nature. Our changes, of the spirit, were far more logical and believable, I think."

I kept looking around, testing out my new vision. It was damned strange in what it did and didn't give you, and in its flexibility.

"So you came here and got trapped," I said sourly.

"Depends on how you look at it," replied the other. "Many of us believe that all of this is God's will, the only way to attain the paradise which we seek. In a way, they may be right—Utopia means no violence, and none is here. Utopia means no wants or needs, and none are here. There is little pain here, the body

heals itself quickly when injured, and death so far has been an isolated phenomenon. Many of us are happy here, and praise God constantly for this life."

"Hmph!" I snorted. "That's the trouble with Utopias. When you reduce the ideal world to its basics, you find it fits a herd of cows very well. Is this what man strives for? To be reduced to a bunch of contented, grazing animals? I don't believe it. That's why I didn't stay home and rot on the lifelong dole; I had to explore, to meet and beat challenges wherever they could be found. That's humanity, / think."

George shrugged. "Maybe. Maybe not. Certainly if most of civilization is as you say they'd be better off grazing here on the plain. I make no judgments, since it's all academic anyway. I came to that conclusion long ago, and you will, too, sooner or later. You're here, like this, and you're stuck forever whether you want to be or not."

"I'll never accept that," I told him. "I'd rather die."

"Lots did try to kill themselves at the start, you know," he said softly. "It doesn't work. They won't allow it. Go crazy in any way and you get an instant lobotomy—there are lots like that out here. As you'll find out, we're functional pets—property."

"Of whom?" I asked. "Who's they?"

"Enough time for that later," George replied. "All the time in the world. I'm delighted to have somebody fresh and different to talk to. Right now let's go on up to the town and get you settled in. Can you run with this vision? Just take it as slowly as you can and don't try pushing it. I'll pace you, and try to guide you."

I tried running and found myself sprawling time and again. I couldn't get used to my new vision because movement caused everything to be even more confusing and disorienting than it seemed before. George moved as effortlessly as a four-legged ballet dancer, and I envied him his grace and balance. I wasn't sure I'd ever get to that point.

But he was always there, always shouting encouragement, and we eventually made it to the edge of the river.

Water was gold, like molten lava that somehow sparkled as it poured over ultraviolet rocks. The village looked different now, too, the buildings a glistening silver as intricately constructed as the most complex spiderwebs.

"This was the first town site," George explained. "It could have held the original six hundred easily, and we actually got some prefab stuff up before things started to fall apart. The earliest buildings on the point there are patterned after the ones we built, even the church."

So that was the building with spires, I thought. A church. I'd seen a couple on various worlds, but this sort of organization came out of ancient history. But, then, these were a people of ancient history, taking centuries to cover what I had covered in months. I was

as alien to these people as we all were to normal humans—four hundred and seventy years distant.

"Of course," George continued, "as the population has expanded, we have spread far beyond the original site—now very far beyond. There's only a few thousand of us around in these parts, in three towns."

"A few thousand of you?" I gasped. "But you said you started with six hundred! You can't have been down twenty years!"

"That's true," he acknowledged. "But, you see, every single one of the Chozen—that's what we call this particular animal we are—on this planet started with the original six hundred."

I was stunned anew. "You mean—there were no creatures like this on this planet before you landed? That's impossible! There must be a billion of you around on all four continents! Not in twenty years!"

George sat up on his tail and gave a shrug. "It's true. When we surveyed, the largest land animal around was a large rodent, and the largest animal period was something resembling an aquatic dinosaur. We split into four groups, centered on each continent's best zone, to check where the best places would be to start out. Seventy-five men and seventy-five women in each commune, each with a whole continent to settle. We had radios and the shuttlecraft, so we could keep in contact, we thought. Well, after we were all down, the dissolution of everything started, so rapidly and so absolutely that we couldn't do a thing about it. Then the Change came, and, if I can judge by just this colony here, when we became the Chosen only one in ten of the men remained a male, the rest became females. In our case, seven of us remained men; the rest, females—sixty-eight in all.

"Breeding is—well, you might say compulsory. You'll see. A female mates once every two years, I'd guess, and always lays six eggs—yes, don't start. We hatch.

"Well, five are always female and one male. There's

no infant mortality to speak of, and instead of the usual ten to thirteen years, the young reach full maturity in just two and start breeding. You can figure out the result."

It was getting late as we approached the large house, which, as leader, George occupied. It was grass-lined and stocked with tubers, and provided a comfortable place to lie down in. The Chosen relaxed by lying on their sides, feet out, I found. Very comfortable.

My old pilot's mind did the arithmetic. Let's see—okay, there would be sixty-eight females, seven males, so we'd multiply the first litter by six and the rest by five. That was 408 the first breeding cycle, two years in. Now they all bred, and we'd get 2,040 by the end of the fourth year. Ten thousand two by six, fifty-one thousand by eight, two hundred fifty-five thousand at ten years, over a million two by only twelve years, six million at fourteen, thirty-one million by sixteen, a hundred and sixty or so million by eighteen, and now, at about twenty years, almost eight hundred million from this one colony. Multiplied by the four colonies, the result was even more staggering—over three billion of the Chosen on the planet. And the next cycle—

Fifteen billion?

"I don't believe it," I whispered. "This world's about right now. It can't stand any more inhabitants. You'll be out of food no matter what in just a couple more years, over the trillion mark before another decade!"

George nodded. "I know. The death rate's mostly from accident, so it's rather low. Either that has to increase dramatically in the next year or two, or there has to be a lot of sterility suddenly, or we'll be up to our tails in people with no increase in food."

"Starvation will return violence to your perfect world," I pointed out. "The most dangerous people are starving people."

Five

In the next few days I learned to handle my new body and my odd new sight much better. The fact is, being of the Chozen was not at all unpleasant, like suddenly becoming a child again. No cares, no responsibility, no worries. Most of the Chozen were born this way, and

all but a handful were still children.

The young grew to adulthood in just two years, but they learned very quickly. Parents taught them speech and as much else as possible during the abbreviated childhood. Even as adults, they respected their elders, and listened to the stories of their heritage, their culture, and their ideals and faith. To all but a hundred and fifty of the colony, and those stretched damned thin across the face of the continent, this was their own, their only world, their only form, their only life. Legends, rumors, and the lack of manpower to fill what little need for knowledge of the old ways existed were already causing tremendous gaps between old and young. There were simply too many children, of necessity too spread out. Most were primitive savages, with little or no hint of a link to humanity or civilization.

They played their games, and life was fun and little

else. I could tell that even close in to this village and George's guiding hand the last links were already

breaking. Two years wasn't enough to teach them their past. Already the majority of the inhabitants were only two to four years old, and far removed from humanity. In a century, provided—or, perhaps, even helped by

—the inevitable toll of starvation, they would be so alien, so simple and primitive, that they might as well have no link with humanity whatsoever.

In one way, the originals would have the advantage in a fight. They'd know how to fight, would know about violence and how to defend. But, of course, their Christianity and pacifistic ideals would be shattered in the process; they would have to give up their dream or die for it. Either way, the process of dehumanizing would advance.

I talked to a bunch of young ones, just coming on two but already looking as adult as any of us. George had two daughters and a son from the last breeding cycle. One of the girls seemed brighter and more curious than the others, and I took a liking to her. They called her Guz—George explained that after so many kids he just called them simple names he could keep straight.

As I say, we were all children again, playing games like tag and hide-and-seek and such between bouts of eating—a lot had to be consumed each day to support our bulks. Guz was happy and alert, and you would have put her as an ignorant twelve-year-old big for her age if you didn't know better. Even with a master for a teacher, though, she was one of the new generation.

"Ay! Bar!" she taunted. "No can run quick like girl!"

I took the challenge and started after her; I was getting better every day, sprinting probably twenty kilometers per hour, maybe better. It was a tempting, deceptive paradise, really—no cares, no worries, all fun and games.

I did catch her and swatted her with my tail. She stopped and laughed, because she'd slowed deliberately to let me catch her and knew that I knew.

After a while of such romping about we ate our fill of grass and tubers, then settled in for the ritual that was part of everybody's day: people who knew each other would settle down and preen and clean one another.

Basically, the process involved one person's lying down, while the other went over him, checking for burrs, insects, and the like, and removed them with tongue and teeth. Our mouths secreted an antiseptic saliva that healed rough and raw spots.

I took a couple of minutes, then started doing her.

"Bar?" she asked lazily. "What it like where you come from? What it like to be old people?" By that last she wasn't referring to age, but to the human form.

"I'm sure your father's told you all about it," I responded. "It is quite different."

"How?" she persisted, as all children must.

"Well, we have hands. We can grasp things—hold things," I tried to explain, realizing that "grasp" and "hold" might be hard concepts for a handless person. "We use tools—things that are used to make and shape other things."

"Why?"

That age-old question seemed a bit harder somehow. Why, indeed?

"Are people more happy than Choz?" she asked, filling the void of my nonreply.

I thought again, of the mindless millions glued to their telescreens and rotting in standard flats. I compared them to the happy primitives of the plains.

"I guess not," I replied carefully. "It's not a question of better, only different."

"What kind of different?" she persisted.

I finished the preen. "Sun's going down," I evaded. "Let's head for town."

She munched a last tuber and we hop-ran back to the village. The fact was, we couldn't see the sun—only feel it. Some of the groups further off were already worshipping the sensation as God's touch, I'd heard. Natural enough.

But the sun's rays were necessary for color refraction. At night it was sonar alone, a strange, eerie landscape of white outlines against pitch-black, which 40

could be extremely deceiving. Best to be in a place you knew well after dark.

No lights or fires illuminated the town at night, but the familiar, simple surroundings were easy to manage with the sonar.

After the kids were asleep in their own rooms I sat down with George Haspinol again. It was the first time in several days we'd had the chance to talk; he was often out and around, telling his tales, teaching whom he could, trying to keep the frail threads which tied the local community together from becoming frayed.

"How'd it go?" I asked him.

"I'm winning a few small battles," he replied wearily, "but I'm losing the war. You know that. Guz, Gal, and Rum are proof of it. My own children speak like savages, and none of them can count past five. They go through the motions for the old man, but soon they'll be full-grown and leave to stake out their

own houses in new places, have their own families, which will learn even less of the language and culture. I'm told that already the language just the other side of the hills is about eighty or so words, and so distorted you could hardly make it out. They're becoming the cows you talked about, Bar—by multiplication and geography alone."

I nodded. "But you know it's coming, the holocaust," I responded. "Even with the grass growing again almost overnight, and new tubers sprouting all the time, you're hoof-deep in feces out there, and just eating is a mob scene." I had done a narrow-pulse scan that day; on normal, or wide pulse, I could "see" only three or four hundred meters before the sound was too diffuse to return. Each of our pulses was distinctive, individualistic—even with thousands of people pulsing you always were sensitive to your own. On narrow, though, you shot your full wad at one spot—maybe only a few meters wide, but it carried for a couple of kilometers. I never ran out of Choz to count, nor could I count them all.

"The water's rising, there's signs the winter snows have melted at last," he said evenly. "Breeding season is only weeks away, maybe less. It may be the last one before the whole thing caves in."

I nodded, and shifted subjects. "George, you promised to explain this all to me. Who they are and what we're doing here."

He sighed, and stretched out.

"It's—well, you ran all sorts of tests before coming in, didn't you?"

"Sure," I replied. "More sophisticated than yours, I bet. And I found nothing."

"You didn't know what to look for. Did you find a virus, a tiny colony of sub-microorganisms that built honeycombs at a fast rate?"

"Yes," I told him. "Sure. They didn't affect the test animals, but that's why I came in with full suit and pack."

He shifted slightly. "That figures. They didn't do anything to our test animals, either—or, for that matter, us. We were extracautious, even had a small group living here for a couple of weeks before we committed the main colony. The things aren't much more than enzymes—simple protein molecules, apparently. The only effect they seemed to have was to replace many of the cellular enzymes. There was a slight narcotic effect at the beginning, and we wondered about it, but they were so firmly lodged that to kill them would be to kill the people. They didn't seem to do any harm, and, once they'd moved in, actually made the cells work better, not worse. So, after a while, we committed. Thanks to Fitzgerald we'd been subjectively aloft only a little over thirty years, and we'd limited reproduction in that time just in case the voyage would be a long one. This planet seemed heaven-sent, and so we committed."

"It's a simple virus, then?" I asked, incredulous. "But—all this is so planned."

"A whole new form of life," he replied. "It thinks—"

make no mistake about it. What sort of thoughts, only God knows. Certainly too alien for us to understand. But thought? It got into us, and within days had mutated itself to adapt to our cellular structure. It fitted, it worked—and it bided its time, didn't do much else, except maybe a few favors. It repaired and replaced damaged cells fast, it made you more alert, healthier. What gets me is that it waited until we were all down, supplies, everything, before it struck. It started on everything first—except the shuttle. It left that alone, for some reason. When things started to fall apart, a couple of the colonists made it to the shuttle, managed to take off, made the Peace Victory. Without food to fuel the metabolic changes, the new organisms couldn't act, but the runaways were helpless. They needed a lot more people to run the ship, and most of the supplies they needed to live were now down here.

"Finally, near starvation, they decided to come back, for better or worse. It was that or starve. We'd all changed by that time, so I got to see what it looked like in others, and this time watched the creatures dissolve the ship with secretions of some kind."

"But why these shapes?" I mused. "Why not just take over people as they were?"

"Oh, some of it you can see right off," George replied. "First of all, we needed to be strictly herbivores so they could manage the food supply and we wouldn't louse up their ecosystem by killing the other animals. Tools and artifacts threaten the ecology, too, so you take away hands. Tough, dark skin for

protection against the grasses and the sun. The ability to travel long distances, so we'd spread out fast."

"But why the strange optical system?" I asked. "I don't know. My best guess is that it's multipurpose. The color code eliminates everything except what you have to know about to live and survive. Makes it harder to muck with the environment, makes it easy and convenient to live in it. Also, they can induce hormonal flows and guide them with color stimu-

lus. You already experienced some of the things they could do when they forced you to stuff yourself during the Change. You'll see more during the breeding season. They are in every cell of your body, and as long as they understand the cellular function and its place in your scheme—which they designed—they can induce almost anything. As for the sonar—I suspect that the pulse and return is something they can easily convert to their own terms better than sight. After all, how many eyes does a virus have?"

I nodded. A logical reason for everything, I thought. Intelligent viruses—or, perhaps, a single organism with many parts. Surely one of them, even a colony, couldn't do this alone. There was almost certainly a reason for every component they'd built into us.

"George?" I said suddenly, a thought striking.

"Umh?" he responded sleepily.

"Anything that smart has to know how to count, doesn't it?"

"I suppose so," he mumbled.

"And we're breeding fast to breed the humanity out of us—but also to provide new hosts for the colonies of viruses, right?"

"Urn hum," came the reply.

"George, they've got to know they're at the limits of their world's population."

Suddenly his head lifted a little. "Lord! You're right! And they're much too clever to let the situation really get out of hand. That means they have to allow death or no birth, have to!" There was new hope in his voice.

"I don't think so," I said, trying to think. "That would mean limiting their own expanding population. Now that they've got the means to do it, I don't think they'll want to stop. No, there's something else, something we're missing." Another thought struck me.

"They must know we're intelligent. They must know we think, reason. You know they could lobotomize us in a minute. They have something else up. Otherwise, why not just use their own animals? Why us?"

"I've often wondered about that," he replied. "I don't know the answer. I do know that they're fast approaching a break point—too many people, and the bulk of the people naturally and normally a planned creature of their own capable of reasoned intelligence but culturally animalistic."

"Then, if they can impose behavior, and if the average person considers this normal, what do we have?"

"Organic robots," George said in a curious tone. "A total merging of the two life forms with the virus in charge."

"But where does it go from there?" I wondered. There was no clear answer to that, and we could only lie there, awake, trying to figure it all out.

Six

Time flowed on, and I tended to fit into the routine existence of Patmos. It's funny, but the human mind is distinctive not only for its reasoning abilities, but also for its incredible adaptability.

Ship piloting, for example, is difficult to do. It's done by mental commands that must be instantaneous; life-or-death decisions must be made at all times, particularly in takeoffs, landings, and dockings. The first few weeks in pilot simulation I crashed repeatedly; I thought I would never get the idea of communicating complex instructions with mental nudges while watching sensor data and the like and interpreting them. Yet, within a month, I was not only doing all that fairly routinely, but holding conversations with fellow trainees and copilots at the same time.

Patmos was like that. Here I was, after thirty-six years as a human being, suddenly a four-legged hopping animal that saw by built-in sonar, and yet, by the fifth week doing so was as natural to me as if I had been bom to it. Visions, appearances of other creatures that would have made me laugh or perhaps turn away, now seemed normal, even beautiful and sleek.

Our ability to adapt mentally to any situation is why we got to the stars, why the Choz were here at all. Even so, the population problem weighed heavily on me, along with the strong and unshakable suspicion that something a lot darker than the mere transformation of a group of people into a new and alien culture was at stake.

Note that "mere"—indeed! How quickly one adapts!

When George's companion, Joanna, returned with the other three of the last brood from an extended visit to some of her children from the past cycle, I was crowded out of even the large leader's quarters. The time had come to do some poking about anyway, I thought, and so I left them and decided on a trip over the hills to see what the situation was further afield.

Following the river's course up to its source was tricky. Less vegetation of the edible kind could be

found as you went up, and the plant growth rate seemed slower, more normal, than down on the plains. This area looked more and more as if it were the way the planet might have been before the virus inside us decided to change all that.

As for people—Choz, that is—there were few, and soon none at all. The air was chillier, too, the temperature dropping about a degree per three-hundred meters. The hills weren't tall, really, but the valleys were deep and sheltered, some much colder than the surrounding hillsides or the plains—as much as a twenty-five-degree temperature drop in places the sun never saw.

The virus didn't like the cold, I discovered. Cold places had a menacing pale yellow, the danger color, even when sonar showed no threat other than the chill, which penetrated a bit into my thick, hairy hide.

When I persisted in going through such places despite the color warnings, the virus tried getting tougher. I fought it off with difficulty. It was easier know-foretable, feverish at times. When that didn't stop me the virus tried triggering the hunger mechanism, but I fought it off with difficulty. It was easier knowing what was causing these things; the intellect wasn't supreme, but it did help fight the impulses—helped me more than most, since what I resented more than anything was the fact that such reactions were being imposed.

Seiglein Corporation imposed. Its will was law; its people were its property, possessions just like the buildings and the power plants and the ships with which it controlled the trade between hundreds of planets. Scouts were the only semifree spirits left in Seiglein's universe; that was the heart of why we were out there, the hundreds of men and women who couldn't stand taking orders.

This is why I could fight the virus. Every once in a while they'd hit on something that would work, turn me, make me do their bidding, but the same thing didn't work twice. They controlled the cells, the body fluids and functions, but they could not control the mind directly without destroying it.

It took four days to get across the hills, days of loneliness that were, for me, very satisfying ones as I proved to myself that I was not anybody's property, that I could still be me in this crazy world.

From a ledge on the other side of the hills I could narrow-pulse for great distances. There were rolling hills on this side, more trees, a network of larger and more imposing rivers. Food-color was all over, and

I was hungry after the sparse diet of mountain grasses.

As for Choz, they were present. I made out the slight silver of at least eight towns too far to pulse, showing up only as tiny blobs of the web-color to my vision.

Gingerly I made my way down the last slopes and joined the large herd grazing all around. There weren't quite as many as I'd first calculated there would be, and as I ate I considered this. True, I had seen only a small section of this place as yet, but there should be more according to my math.

As dusk approached, invisible to me except for the gradual fading of the colors, I headed for the nearest town, hoping at least to find members of the original party, like George, or near-generation to those pioneers.

As I hopped into the town—quite a bit larger than the point—a young female came up to me.

"Hi wudja pop?" she asked.

"Huh?" I responded. "I don't understand."

"Wudja pop?" she repeated, getting a little annoyed. I could only shake my head and try again.

"I don't understand you," I said slowly and carefully. "Are there any Firsts or Seconds here?" This meant old-timers, first or second generation.

She caught a little of it. "Fusts nap," she responded in what was an obvious negative. "Sees Mara dere." She gestured with her tail to a spot down the street, but it was impossible to tell where.

I thanked her, though she probably didn't understand anything but the implied sentiment, and continued on down the street.

The town was getting crowded as the mob retreated to their homes for the night. They all seemed to speak variations of the gibberish the girl was spouting, and I could make nothing out of it.

I seemed to remember some teacher saying that the faster a species breeds and matures the more it mutates. Well, there was only one physical mutation here, but the sociocultural mutation was obviously in full swing. The youngest generations were speaking a completely different language even this soon and this close;

I was fairly certain that it would get more diffuse, more alien, the farther away I roamed from the home of a First like George.

There was a large building at the end of the street, similar to the one at the point, although there was no sign of a church. I decided that this must house the ranking member of the tribe and went up to it, poked my head in the doorway, and asked, "Anybody here understand what I'm saying?"

There was a rustle, and I could sound three or four almost grown younglings, one of whom said, "Wudja yerring ja?" in a decidedly nasty tone—a young male, just starting to feel his strength.

Suddenly a girl's voice said sharply, "Layrf, Mag!" and she came to the door.

"I'm sorry," she said. "It's been a long time since we've heard straight speech around here."

"Things are certainly different," I replied apologetically. "I'm Bar Holliday, from the point."

There was still enough light to note her radiate some surprise.

"Holliday! You're the new one, then. The scout pi- loti!"

"News travels fast."

She shrugged. "News travels fast anywhere, although it gets somewhat distorted by the time it gets to us. Come! You can share my room for the night and tell me everything!"

We went to the rear of the building, an extremely well-constructed one with at least eight spacious compartments, and I stretched out tiredly on a very thick mat of soft, broad leaves that were much more comfortable than anything I'd experienced at the point. And, of course, for the past few days I'd been sleeping on rocks and grass, in the open.

"I sound you need a preen," she said, and I grunted. "I've been across the mountains, out of touch for days," I told her.

She proceeded to do the preen, which was needed much more than I'd suspected. Saliva salve or not, some of the burrs and little insects were deeply imbedded and hurt like hell.

Finished, she reclined on the mat and faced me.

"Well, I guess we should start by completing the introductions," she laughed. "Now that I've chewed you to pieces and all. I'm Mara, Second Mother to Gar-town here."

I thought for a moment. A Second, the first I'd really run into. Seconds, George had said, were taught intensively by their parents and were in many ways human-culture, yet it was one generation removed. They knew all the stories, the legends, and had as

much knowledge as could be passed on to them, yet their only experience was of being Choz. She has never seen the sky or the countless stars, I thought, nor held anything in her hands, yet superficially she was as culturally similar to me as George.

"Tell me all about yourself," she urged.

I chuckled. "Not much to tell, really. We licked the problem of faster-than-light travel just a few years after the Peace Victory was launched, and I've been on the job the last several years discovering new worlds for humanity to breed into."

She sighed, and I could tell she was romanticizing.

"To go such distances—I've never been further than from here to the point myself, where I was born. I've been here I don't know how long—a dozen or more melts, anyway." She shifted slightly. "Tell me—what do they look like, these stars?"

I reached for an analogy. "You know how water sparkles as it flows?" I tried, and she nodded. "Imagine just the sparkles, millions of them, against a field of jet black, and you'll get some idea."

She tried but couldn't manage it.

"The people who live out there—are they happier than we? Better off?" she asked, reminding me of Guz's question.

There was still only one answer. "I don't know," I replied. "Here all things are provided us and we are managed by an unseen intelligence. Out there it's pretty much the same, only the intelligence lives in a great city on a planet that is almost all city, and everybody knows who and what it is."

We talked for most of the evening, she full of questions about things she could only imagine but never comprehend fully—a deaf person can academically grasp the concept of music, but never experience it—thrilled to have somebody exotic to talk to. That she was a bored woman was obvious.

"It's the breed," she explained. "Each generation is more than the last, and outnumbers the last. You can't

teach or minister to them in just the short time we have. My own children are so different that I can hardly relate to them anymore. The old ways, the old beliefs, are going as we get more and more removed from our Firsts."

I nodded. "I don't know what is being created here, but it will be a different kind of person, surely, than you and I can know or understand. Old George talked about it at the point a lot."

"George!" she exclaimed. "I should like to see him again. It has been so long, so very long. Tell me, how is he?"

"Good, but kind of down in spirit, like you."

"Yes, well, he is my father, you know. It's natural I should miss him."

Sure he was, I thought, feeling stupid. If the others spread out as much as possible, and she came from the point, odds were good she was one of George's first brood. "You ought to get back to see him," I suggested. "I'm sure he'd like that."

Her voice seemed strained, emotionally clouded, as she said, "I—well, there's always children to see to, and I couldn't see him without them."

For a moment I didn't understand, and said as much.

"Well, ah, oh—it's so very hard to know how to say it. Father and the others, they were a Christian group, you know. You've never been through the Breed. There's no choice, no thinking there. When it came on the second time, well, George was First Male and strongest. My children are his children and

his grandchildren. It's normal here—but he couldn't handle it. It was against his beliefs."

So that was it, I thought sadly. So much for acculturation. Incest was still a potent taboo, and George had committed it, was afraid he'd do it again—probably had done it again. She'd inherited some of the meaningless, in the context of the Choz, revulsion that her father and the other Firsts had felt.

"That just proves how much we cause our own problems, and other's," I comforted. "After all, in a human context inbreeding causes problems. Some, anyway. But not here, not among the Choz."

Where was that aptitude for mental adaptation now? I wondered. Some things were too deeply ingrained in certain people for their own good. A lot of misery had been caused in this way.

"You still should go," I urged. "Why not come back with me? It looks like the kids in there can take care of themselves."

"Maybe," she replied. "We'll see."

I stayed maybe a week, maybe more, in the town. Mara was good company; always inquisitive, always wanting to hear stories about my exploits, which I was never at a loss for. She had several sessions a day with different younglings, trying to teach them what she could, but it was a hopeless battle. Few stayed long to hear her, and those that did were only mildly curious.

I could take no part in these sessions. The language had changed too much. With each lesson she seemed to become a little more despondent, and a little more receptive to suggestions to something different, breaking free of the mold.

I liked her for that. She had a quick wit and an insatiable curiosity combined with a naivete that allowed her to accept my boastful stories uncritically.

But, most important, she was frustrated with this dull and boring life, which was amazing because, unlike me, she'd known nothing else and didn't quite understand what she craved.

On my tours I also discovered that even though most of the last brood looked adult, they were really of different ages. The Breed came upon people at different times although at regular intervals.

The next session of the Breed—after the inter-regnum that occurred only once for a short period

every two years—was coming fast upon us. Some of the females were growing sleeker, their color and texture brightening and heightening, and I could feel strange stirrings within myself as well. I had landed, it appeared, near the end of one cycle, and now I was about to go into my first.

The change was as apparent in Mara as in anyone. It was an indefinable emotional twinge inside. Oddly, the women seemed aware of it only indirectly, by observing the reactions of the males. Not all of them turned me on, just a small percentage. If one male had to service five or more females, it couldn't be done in one cycle, which explained why there seemed less population pressure than reason had dictated. That did not alter the fact that this world was headed for collapse, only delayed it a few years.

"Let's go visit George," I urged her one day. "Come on."

"But—The Breed!" she protested. "It'll take a week or more to cut south to the pass."

"Over the mountains, the way I came in, not around and through."

She nervously scanned the hills. "I don't know," she began hesitantly. "C'mon!" I urged. "You're bored and frustrated here. You know it. This is a new experience, an adventure, something different! Come with me. I know he'd love to see you!"

Finally she relented. "I'll do it," she decided. "When do we go?"

"How about tomorrow morning?" I responded.

I dreamed for the first time that night. It was funny —I almost never dreamed, and hadn't yet done so here. Of course, I probably had, but I never remembered any of them, which amounts to the same thing.

This particular dream was one of those weird ones you can never quite figure out, but it was filled with the color green and with strange feelings, urges, and

impulses. Superimposed over it all seemed to be a bright violet netting, like a honeycomb, active, growing, reaching out, building, doing things. I seemed to run in and out of the violet netting, which grew around me, trying to trap me against that green field, yet there were roughly rectangular holes through which I could crawl and escape.

I awoke suddenly, feeling funny, as if my mouth were full of mush. I scanned the room. Mara was still sleeping, snoring slightly, and all was still and quiet. I bit down, seeming to snap something spongy as I did so. I scanned the area ahead of my face and found, to my surprise, that I had for the first time secreted webbing from the flap in my tongue and had somehow constructed a tiny web-wall, now hardening. I could feel the stuff in the canal in my tongue, like a piece of chalk or stick yet still soft and flexible.

I lay there for some time trying to make sense out of what was happening to me, before drifting off into a light and uncomfortable sleep.

The next morning I apologized to Mara for the mess. I'd built a low barrier between us, it seemed. She laughed, made a joke about my true feelings coming out in my dreams, then explained to me that it was a common thing and easily corrected, if a bit messy and hard to clean up.

The webbing dissolved in urine.

That concept wasn't something I would ever think of, yet it opened up a possibility in my mind that was exciting: liberating my ship. I had gone out to that field every day and seen that mound of webbing lock-

ing it in. The ship was still in there, all right—I felt sure of it. I don't know why; it should have been broken down with the rest of the artifacts. Instead, it had been covered, shielded, and protected.

Two or three minutes, that's all I would need. Two or three minutes and I could lift off, even without hands.

Then I recalled George's mentioning that a couple of the early colonists had made it off the planet in their shuttle. But they had been doomed anyway, of course, since they couldn't get anywhere in the shuttle and the big ship was beyond their management. Yet the shuttle had been destroyed only after it proved a threat. The virus hadn't been able to eat it away in the time it took to take off, and space had killed the virus clinging to the outer shell.

Why had the virus been so ineffective?

The armor, probably. Spacecraft were made of the toughest materials, not like the simple suits, prefabs, and the like you'd normally use.

But I didn't have a shuttle; I had a small FTL ship that could be run not by mechanical controls but by direct impulse from the brain.

Now I was more anxious than ever to get back.

Seven

The trip back was easier than the trip up. We had each other to help over the rough spots. The bugs still didn't like those cold places, but with me there urging her on, egging her on, Mara proved to be as stubborn and determined as I.

As we made our way, both of us began changing. I could feel it, knew that it was she who was changing and I who was reacting. Yet once the burning started, it would not go away. Her green seemed to get brighter as I watched, becoming more and more intense; her awkward Choz body seemed to grow beautiful, sleek, attractive, her every move a thing of beauty. And there was the scent—a smell that was subtle at the start, but growing more and more powerful, more alluring, as time passed.

It was the Breed, I knew. I'd seen animals react strangely when the females were in heat, and this is what I was now experiencing firsthand.

"What am I going to do about it?" I asked her plaintively. Until this started I had experienced no sexual urges whatsoever, no attraction beyond a platonic liking for another person.

"The Breed is normal and natural," she replied soothingly. "I counted on this in deciding to come. We will mate and breed before we reach the point and this will ease the problem with Father."

Stupid me, I thought sourly. Being in space so long cuts you off from the practical. Still, I didn't understand why her calculating response bothered me—I

had certainly enjoyed sex with many women I'd hardly known, and this wasn't much different. Better, really, since the act was such a natural and normal part of life on this world, particularly her whole life, that I should have just taken it in stride as I had the rest of this strange experience.

Maybe I was overreacting because of the way all this was being done—from outside, by automatic stimulus, imposed again. That antiauthority response again. Or, maybe it was just fear of not knowing what to do, or what was to be done. I would have to depend on her for that.

We were on the river course down to the point, less than a day from our goal. Mara had puzzled over why nothing had happened yet, the buildup being slower than the normal pattern. On this world everything happened according to the normal pattern.

But now, today, this moment, the waiting was over.

I didn't have to worry about how to do anything;

everything was all done for me. She was suddenly a blazing green, overpowering, as was her maddening scent. I couldn't think of anything else, see anything else. I sent out a pulse to her and she stopped. Sud-

denly I was locked on; the normal pulsing became a steady, overpowering scream directly at her, full force. She stood there, frozen by it, as if hypnotized.

I moved close to her, swaying the sonic beam back and forth rhythmically, and she swayed to my tune and direction, expression blank, as if in some sort of trance. I forced the beam upward, up again, stroking her with sound, and she rose, leaning back on her massive tail, leaning, leaning further back than I had ever seen any Choz go, almost completely doubled back, so that her circular vaginal cavity was exposed.

Then I moved to within a meter of her and stood on my tail as well. I could feel my own breathing, heavy, rhythmic, and a tiny corner of my mind noted that her breathing was in perfect time to my own. Everything

was a complete blur, a rush of urge and emotion, both of us in some sort of orgasmic fog.

Suddenly she sent out a steady pulse to me, stronger, stronger, until her far-different frequency and my own were in almost perfect tune. I edged close to her, following the beam linking the two pairs of horns, and then we were locked, linked together in that eerie tableau for who knew how long.

When, finally, that part was over, the whole process was not. Slowly we moved in perfect unison, bringing our bodies back up, then forward. Her two horns touched my curled ones, fitted through the loops in mine.

The sensation felt like an overpowering electric shock. We linked in some way, became as one, moved as one, saw as one, felt as one. I was both bodies and she was both bodies, yet there was no thought, no consciousness beyond the overpowering feelings.

Slowly she withdrew, and we turned and stood side by side as one organism. We moved to a clearing near the river and, together, we spun a house. It was beautiful, intricate, and came from someplace other than our minds, since I had no way of knowing how to do this on my own.

When we finished we lined the floor with leaves and grass, and went inside. She lay on the floor, on her back, a position that was extremely unnatural to a Choz under other circumstances, and I placed myself over her, penetrated again, and settled down atop her. We maintained this position, unmoving, unthinking, for what must have been days—I later learned that it had been ten days!—without thought, without any sensation but the overpowering one. Finally, I felt a touch, and drew back, back, so that I stood not over her but in front of her. Suddenly, in front of me, the first egg emerged, a flashing, almost blinding white and quite large. Then came a second, and then a third.

I waited, but no more came. She sat up, and the 59

fold or flap on her marsupial pouch seemed creased, part open.

I reached out with a forehoof, placed it over the first egg, the three-part cleft opening just exactly wide enough to go around the top half of the egg, and I lifted it slowly and carefully placed it in her pouch, then the second.

Then the ritual was reversed, and I leaned back, opening my pouch. Whereupon she leaned forward, grasped the third egg, and placed it in my pouch. We both were lying on our backs, cradled on our own bushy tails.

Exhausted, for the first time in ten days we both slept.

Eight

Mara was just coming in when I awoke. Her color was neutral green once again, and all the sensations of the past ten days were a dim and blurry memory.

I felt weak as I got to my feet, and a little dizzy. She saw me and stopped.

"How are you feeling?" she asked, concerned. - "Terrible," I responded. "My God! Do we go through that every two years?"

"No," she said slowly. "/ go through it once every two years. You—well, as often as every two months until the next in-between time."

It made me ill to think about that. Males would be studs in this system; we'd have to average one every three and a half months or so.

"Why do I have an egg in my pouch?" I asked. I could barely feel it there, but I was nonetheless conscious of it.

She laughed. "The eggs are neuter. The sex of the child is determined by its hatch-place. In a few days they will hatch, and attach to the inner wall of the skin. That way they will be fed, and with the nourishment will come the instructions on sexual development. No one knows how—we have no way of knowing here."

"I—" I began, then almost collapsed.

She came over to me, radiating concern. "Here! Come outside and eat. You have had nothing for a long time and are very weak. After you'll feel a little sick as I do now, but that is normal. Then, only then, will we talk about the strangeness."

I managed to stumble outside. The food-color was overwhelming and I started in. It wasn't the ravenous hunger of the changing; in fact, I ate a little, then stopped, then managed a little more. The sensation was more like one of starvation, where everything looks wonderful but you feel sick when you face the food about which you dream. It took me about three hours, and I still didn't feel right, but I was convinced that I could manage no more. I went back to the hut, still feeling weak, as she had warned, and sour as well.

Even so, I took time to study the house. We had built it together in the Breed, yet I still couldn't have done anything so elaborate on my own. Everything was so much of a blur I had only vague memories of

its construction, but I admired the work.

She heard me approach, and came out of the house.

"That's amazing!" I exclaimed to her. "The house, I mean. Did I—did we build that? Did we really build that?"

She nodded. "If there is no house of your mate's own webbing, one will be built. This is only the third time for me, but it's as good as any of them."

I agreed. Still feeling lousy, I lay down on the grass near the house and stretched out as best I could. No position felt comfortable, but it was better than nothing.

"You'll get used to it," Mara said, coming over and lying down near me.

And this, too, was strange, I thought. The whole thing—why it disturbed me so. It was wholly animalistic, instinctive. There was nothing of one's will involved, nor of one's true emotions, either. There was no romance, no love, not even the sense of fulfilling a need to combat loneliness that would make somebody use a prostitute. No, the whole process was totally without any inkling of humanity, and that's what bothered me the most.

I had to get the hell off this planet, or die. Not being suicidal, I would still prefer death to my current

situation—and I marveled at how the older ones, the Firsts at least, could feel other than this way as well. But these were ordinary people, for the most part, I realized. Like those of my own world. All their needs serviced, on the social dole. Even those who protested wanted only a world more Utopian, more perfect. They didn't have my needs, my fierce belief that only in struggle was man something more than the animals.

Modern humanity might as well be these docile animals, I knew. This is what the reformers wanted, lacking only population control. A world without worries over food, over war, over jealousy and hatred. A world without care or caring of any kind, including the caring

of one person for another.

A world where thinking was also unnecessary, obsolete.

"What are you thinking about?" Mara asked, concerned. "Your aura shows great disturbance."

"Just thinking," I replied. "And that's something you shouldn't do on this world. There's no room for it."

"And is that true on your world?" she asked.

I sighed. "Not anymore. Not really. Those of us who do think are either fitted into the corporate mold or put in jobs like mine, where they're segregated from society

even as they serve it."

"I think I understand," Mara replied. "I often think about what my father taught me. The colonists were pioneers, too, you know. They wanted to poke into places nobody else had been, and to solve the problem of setting up a new society on a new world. They—the Firsts, I mean—always felt cheated that they hadn't the chance to do that."

I nodded. My stomach felt a little better, but I was still light-headed.

"I can't understand why the virus lets us keep thinking. They've already demonstrated they can stop that, by cutting through a part of our brain. Why leave us as fully self-aware individuals at all?"

She shrugged. "Who knows what such creatures

think, or how they think? How could we ever even contact them, or they us? What do we have in common? And what can we do about this life, anyway?"

Those were indeed the questions that begged answering. Of the first, I could only guess. They knew we were intelligent, knew even how to cut that intelligence off. They knew quite a lot about us. I suspected that they lived their own lives through us, saw what we saw, felt what we felt. I suspected that was the reason for the weird vision; this was the method by which they, as well as we, could see. Optic nerves to neural impulses to the brain would not be enough. They could neither interpret the signals nor get into the brain to have them interpreted.

But sound—you felt sound. It was vibration, air movement. This could go to several sources.

"It was a strange Breed," Mara said suddenly.

"Huh?" I managed, breaking off my reverie.

"Only three eggs. That has never happened before. It's always six."

"Our masters are smart," I told her. "They can count. They see that we're breeding ourselves into a situation where there won't be enough food for all. I suspect this is but the first stage of a complex change—that they will eventually stop the Breed entirely, or stretch it out, or introduce death by aging. It's either that or some must starve."

But was that the only possibility? I mused. Was it, indeed? They reproduced through us; we'd been the means of greatly expanding their race. Could they give that up now?

. They'd have to, I told myself. There was no other way. They must have had to do it before, with the

ani- mals here.

Suddenly I felt a shock run through me. The ani- mals! They were a normal population! If these creatures could breed any living matter into anything else and set the rules for the organism, why hadn't they done it to the others? This world was too normal, too

ordinary except for the Choz. That revelation had been what had been bothering me all along.

The virus could not possibly have existed on this world much longer than humanity. Nor, in fact, could it have evolved here—the kinds of pressures that would cause such an intelligence to evolve just couldn't be found here.

The more I thought about it, the more I wondered.

That virus could not exist!

This world, the Choz, this system, could not exist!

Not without violating everything we know about evolution.

"Mara!" I almost yelled at her. "I think I've just discovered something!"

"What are you talking about?" she responded, not sure of my sanity. Truthfully, neither was I.

"The only way—the only-way that virus could possibly exist on this planet is if it came here with us!" I blurted. "It's as alien to this place as we are. And if I could get to those tapes in the Peace Victory I think I can prove it."

I became extremely excited though I couldn't put my finger on the why of it. Somehow, I felt, I was nearing the solution, and only a few more pieces of the puzzle would be needed to get everything straight.

Mara seemed less interested; although bored by this world and amused by my emotional outbursts, she was unable to see the import of them.

I was convinced that another conversation with George would put the last pieces into place, and I was, therefore, anxious to be off. Since Mara had helped in the building of the first unit of George's great house, she could be as comfortable there when the young came as in the little place we'd built.

Oddly, she was reluctant to leave, and it was some time before I realized why. First, she was still extremely nervous at seeing her father after all these years, and even more unsure as to how she would be

received. Second, the isolated up-valley spot was her first real rest away from people and the responsibility her being a Second entailed. Returning to the mass of bodies below would bring back all the pressures. And, finally, there was me.

Not that I was a charming rascal and she was madly in love with me. I doubt if someone not a First could conceive of real love for another, unrelated individual. But, I was different—I talked different, felt different, acted different from anybody she'd ever known, Firsts included. Even the Firsts had been ideologues; I remembered George's telling me that some of the Firsts thought this really was paradise and that all of the changes and the like were God's will. I was the first rebel on this world, the first person who refused to accept with stoic fatalism what sort of a life was offered.

Finally, I talked her into moving on, and we made our way down the mountain the additional half a day's journey to the point. It looked just as when I'd left it, of course. There were a lot more houses out on the plain; another village was building after the last Breed, clearly.

George wasn't in, but I saw Guz, still not at puberty but very close if her color was any indication. She told me that George was at his favorite spot on the plain near the river. The Breed was always hard .on

George, and he was often antisocial for weeks afterward.

Good Christians just aren't made for incestuous harems.

We splashed through the shallow river and down the far bank, but, as we approached George's spot under the shade of some spreading palmlike trees, Mara slowed and stopped.

"What's the matter?" I called, coming to a halt and whirling in one motion. I was getting pretty good at being a four-footed hopping animal.

"I—I think you'd better go on," she said hesitantly. "I'll join you—later. After ..."

Her voice trailed off, but I could see her problem.

"Don't worry about it so much!" I chided, then softened my tone. "Look, you wait here, relax, graze. I'll prepare the way."

This settled, it still took me a while to find George.

I could tell by his richer blue that he was with egg himself, and through the color came an aura that cried despondency. Even so, he looked up as I approached and seemed to brighten as he recognized me.

"Bar Holliday!" he called cheerfully. "Well! You made it over and back, eh?"

"That I did, George," I responded lightly. "Not a long or a hard trip, but one with some new discoveries and experiences."

His tone darkened with his hue. "You experienced the Breed, then."

I nodded. "That's some crazy way of reproducing. There must be a reason for it, but I can't think of what."

"Probably takes that long to transfer the viral strain within the egg," he said in that clinical tone he sometimes adopted.

I thought for a minute. Yes, that somehow seemed to make sense. Ten days—anything could happen in ten days considering that it had taken barely three to reshape me. Something definitely went on during that period—not for the mating couple, certainly. For the tiny masters within.

"George, I think I'm close to the solution of this crazy mess," I told him.

He looked startled by the comment. "Eh? You mean the population thing? They seem to have solved that— three eggs this time."

"No, no, not that. The whole puzzle. Look, it suddenly came to me after the Breed that this whole thing is nonsense. It makes no sense at all. The world is too illogical, just as we are illogical. Let me

ask you—was there any disease during the voyage of the Peace Victory?"

He frowned, remembering. "Why, yes, there was, come to think of it. Some sort of intestinal problem. Had a hell of a time locating it and producing a serum."

I smiled broadly, knowing the answer to my question as I asked it. "It was a virus, wasn't it, George?"

Several hours passed, but, the Choz have infinite

patience and a poor time sense.

Another ship showed—still too big, too formidable- looking.

Finally one came along that met our specifications, but it was followed too closely by another. Timing was everything here; the emergence point from the L-jump was, as is standard with babies this size, quite a distance from the target solar system. Out of range of the routine system sensors, really. We needed one, alone, with no other ship in the vicinity that could pick up

calls.

Seven more passed and were rejected as time went. Finally, the traffic eased up. Obviously a large shipment was going in; this had been some sort of a convoy.

We waited patiently, knowing that we could afford no mistakes, knowing that a ship would eventually come that was right. And one did—a smaller ship, less than a kilometer but nice and wide, like a great,

fat arrow.

"This is it," I warned the others. "Places!" I kicked in the automated distress call on my ship, using less than a third strength. This had the advantage of reducing the risk of others hearing it. Or making it seem like my power was down to those who did hear it.

The freighter heard it. It started to slow; I could see the energy brakes come on.

"This is the Nijinsky calling ship in distress," came a female voice. "Come in, ship in distress."

"This is Seiglein Scout 3167," I replied through the computer, using a number just a little higher than the corporation was now using. "I am just back from sector scouting and I have had an accident."

Silence for a moment, then she asked, "All right, Seiglein 3167. Have you any motive power? Can you make it to our lock?"

"I believe so," I responded. "I was injured in the crash, though. Do you have a doctor aboard?"

"Negative on the doctor. We are a freighter, and there are only two of us aboard. However, we can administer first-aid until we get you to the medical station on Loki . . . We are homing on your signal. Maintain your present heading."

Luck was running with us; I'd judged the ship and crew exactly. As important as the ship itself was the fuel it held; my little ship used only a small bit for in-system work, and had a reserve, but it could tap the fuel supply of the big one without restricting the Nijinsky's capabilities very much. Like taking an eye-dropper's worth from a billion-liter tank.

They closed rapidly and soon locked on.

"I'm too hurt to move through the lock," I told them. "You will have to come and get me."

"We're on automatic now," Nijinsky replied. "Com- ing aft."

We lowered the lights to minimum; we didn't need them, anyway, and kept them on only for the plants; you couldn't turn off the upper deck and leave the lowers on. To the humans, it would be almost total darkness.

to truly leap, to almost fly. As they moved there were sounds all around them, the most pervasive seemed like a huge singing group, humming. It was a constant tone, although it rose and fell in pitch as they passed

one spot or another.

Some sort of insect, Marsha guessed, and kept on. She almost stopped, causing a minor collision, when

something small and yellow scurried across the little

clearing in front of her, but she kept hold of herself and just continued loping on, knowing that this was yet something of a wild world, one with little things that hummed and others that scurried.

Within minutes, they broke through the edge of the forest.

They were on the edge of an escarpment, rather gentle but long; a plain, with Terran-style groves and even a sprinkler system of sorts covering most of it; at the base and off a few hundred more meters was the camp—a town, really, with electricity that radiated as dull red heat to her eyes, and a single, familiar four- pattern of prefabs.

They took some time to survey the scene, to get to know it. The night sky was no help, but the lights were enough illumination for the basics of the color sense, as was the brightness that was a close, rocky neighbor planet of roughly equal size, reflecting the sun.

"The humans are in the buildings, there," she told them, voice set and determined. "The large block to the right, there, houses the construction and maintenance robots. It's entirely possible that we might meet a utility robot or two in the groves. If so, avoid it if possible. Your fear index will trip the disabling tone if things get too bad, and we will be there to help."

They crept down through groves of some sort of vegetable, occasionally getting wetted down by the sprinklers, but they met no human or robot as they progressed.

Almost at the village, they came to a sudden clearing and Marsha's hooves clattered against something hard. She looked down, sounding it, but it took a few seconds to realize what it was.

"A road!" she exclaimed. "A service road! Bar! Can you trace the road? Does it go a good distance? Is there a landing place well down it?"

I ordered the photo probe from ship's sensors, but the pictorial was a blank to me.

"Cain?" I shot to the robot. "You heard?" "The road does not go far," responded the robot.

"It runs into a network of other smaller roads, and one

very large one going off to the southwest."

"The longest one will do," I responded. "Is there a

landing place two or more kilometers from any

settled area?"

"There is," the robot replied. "I shall feed you its

coordinates."

He did and I stored the information in the computer.

I turned back to Marsha and her group. "What you got in mind, hon?" I asked her. "Roads mean cars and trucks of some kind," she pointed out. "That means water tanks for the irrigation system. We might as well get something out of

this other than moral satisfaction."

I thought it over, looked at George. He shrugged.

"Will it fit in the lock?" he asked.

"Depends," I responded. "Hon, if you can find one that fits, go to it. Anything else, too. Otherwise, raise your hell and git."

She nodded, then suddenly froze. There was the sound of a whirring motor somewhere near, approaching.

"Quickly!" she called to the others. "Into the

bushes and freeze!"

They didn't need any extra urging. She took a mighty leap and was so far back she risked edging forward

to get a view of the road.

There was a truck coming, a little angular affair,

with single headlight. A three-wheeler. She scanned to see the driver, but there was no driver. It was an automated vehicle.

Nobody moved, nobody breathed, as the thing came

up to within a few meters of them, whirred past, and vanished down the road without a pause.

"Whew!" she breathed. "Nervewracking, that. Well,

c'mon, gang. Let's head into town." 182

They proceeded slowly to the edge of the quad. Many lights were on, she could tell by the colors reflecting off the grassy center plot, but there seemed to be no one stirring outside.

"Damn!" she exclaimed angrily. "No trucks. Well, okay, then." She turned to the group. "Anybody feel like they have to shit?"

Several did, in fact, and she urged them to do it in the quad, on the grass, depositing as they did huge cultures of the virus.

The operation needed a little more light, but you could almost swear that the edges of the grass around the three piles of manure were turning a dull pink even now.

"Look at the piles!" George cut in sharply. "Keep looking until I tell you to stop!"

They complied, and he played little tunes to the piles relayed by the Choz to the ground. He was instructing the virus as to its rate of multiplication, I knew, stepping everything up to maximum speed.

Near the end of this, someone decided to come out of one of the quads.

We heard the door slide open, and switched to the first Choz who looked up. Someone—looked like a man, hard to tell with the baggy clothes. He was humming something, and he started across the area, hardly looking where he was going.

"Everybody!" I called. "Contact!"

He almost bumped into Marsha.

"Excuse me," he mumbled, face still staring at the ground.

He saw something strange there, and his face came up, meeting Marsha's gaze.

His mouth opened, and he screamed so terribly we could feel it way up in orbit. The man was terrified.

He started to back away, then just stood, a few meters back, gaping. Marsha lost her patience, and made a feint for him, and he screamed again and ran

as fast as he could back to the door from which he'd emerged, yelling and screaming.

There were the sounds of movement, calls, and some additional lighting snapped on, making the quad a blaze of color.

"Scatter!" she yelled at them. "Meet back at the road when you're done!"

They leaped in all directions. One headed for the generating plant on to one side, another to the water system, yet others to their assigned stations. Marsha stood her ground and glared at the lights she could sense but not see.

"Okay, you bastards! C'mon out and fight!" she yelled, although they could not hear her.

Three humans acted as if they did, though. There was no way of telling if one was our first contact—they tended to look alike to us, I discovered—but they came out of the same building and gaped at her for a moment.

She turned and faced them, scanning them carefully. One held what seemed to be a wrench. No other weapons were visible. The one with the tool appeared to be the leader, and he advanced on her, the others following cautiously, nervously.

"Hey, beastie," he whispered gently. "Nice beastie. What are ye, beastie? C'mon to Papa Njumo now, take it easy. ..."

He kept murmuring reassuringly, but the wrench was held in a nasty way.

Marsha let him approach, doing a wide scan to make certain there were no surprises. There were several other humans in open doorways, but these three were the only ones that made any kind of move.

"Jeez! What the hell is it?" one of the nervous followers managed. "I ain't never seen nothin' like it before. Them eyes—jeez!"

"Shut up!" Njumo ordered sharply through clenched teeth and broad smile. "If I can get close in enough

can brain it, I think." His tone softened again. "Nice beastie, come to Papa, beastie ..."

"Why, that son of a bitch!" Marsha exploded, and leaped high into the air at the trio. She judged her distance perfectly as only a Choz can gauge a leap, forehooves pushing the two men behind Njumo, hind legs kicking into Njumo's shoulders and, perhaps, his skull as she gave an extra push in the air for effort.

She crashed into the two men, and sprawled with them. Choz aren't light—she weighed a hundred fifty kilos if she weighed one—and when she rolled over onto one of them he screamed in pain. She recovered quickly as the buildings erupted with construction personnel, mostly yelling conflicting orders and running around, watching her warily.

Scanning that the three she tackled were out for the count, she whirled and poised for another spring.

"Watch it!" I warned anxiously. "They can hurt you, you know!"

"The hell with them!" she sneered. "God! It's been so long! They're so small, so soft, so slow! Hah! I'll show 'em what a Choz woman can do!"

She leaped at a bunch, who were taken aback both at the speed and the duration of the leap—perhaps twenty, twenty-five meters!

I knew what she was feeling, feeling for the first time—the power of the Choz in the open, the freedom, the tremendous control when we were in a place like that for which we were designed.

She hit a row of men and women who froze in fear as she came upon them, like some flying horror. She struck the first two, and they careened into others. It was almost comical the way they fell into each other, going down in sequence.

"Get one of the borers from the construction shed!" someone yelled. "Nail it!"

