FUTURE

MAY SCIENCE FICTION

200

EQUATIONS FOR Destiny

by John

Berryman

THY DAYS

ARE Numbered

by Wallace West

> ALL STORIES NEW No Reprints





Volume 1

May, 1952



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THE REMEMBERERS

Jeature Movelets

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EQUATIONS FOR DESTINY John Derryman 12

Dutro forgets an important fact about a machine, and takes a vaster journey than he ever dreamed of . . .

THY DAYS ARE NUMBERED! Wallace West 186
Teral struggles against anarchy, unknowing that he is a living part
of what will be a great legend.

Short Stories and Departments	
DOWN TO EARTH (A Department for Science-Fictioniats)	
FORGIVE US OUR DEBTS Lester del Rey The hour is late when Fane understands the obligations of his culture.	4
READIN' AND WRITHIN' 1. Sprague de Camp and your editor discuss one of the most fascinating and controversial volumes ever written.	5
THE TWICE-TOLD MAN	6
REJECTION SLIP Ben Singer Of course, such characterization cannot be considered acceptable!	6
THE MISLAID TRIBES L. Sprague de Camp An article dealing with the transformation of legend into pseudo-science.	

Cover by Milton Euros, from "Forgive Us Our Debis"

Interior Illustrations by Euros, Murphy, and Poulton

Was it all a deception-and, if so, why would they fight for it?

..... H. Charles Blair 78

FUTURE NOTINCE VICTION FURIES, May, 1958, published bemonthly by COLUMBER PUBLICATIONS, INC. 1 Andrean intent. Holysee, Man. Editedial and ascentive office at \$14. Carrie merce. New York II. Service as executed the nation of the tenth of the service as executed the nation of the tenth of the service as executed the nation of the service of the servi

Forgive Us Our Debts

by Lester del Rey

A lesser culture can be murdered by the more advanced without war, without violence, without exploitation, without even the intent to harm...

ANE FELT the force of the Aral fields slowing the ship before the sleep was out of his eyes, and the soft purring hiss of power that was only barely tapped, usually. It had been three generations since the fields had been used, except in the ritual tests.

"Closssse," the great integrating reactors hissed, "Closse,"

In another day they would reach the planet they had selected, and the long Cruise might be over. Fifty genrations, if the legends were right eleven branchings—fifteen bundred of those mysteriously arbitrery dictional called years, and now they had found a world that might have been made for them.

Lissa still lay snoring faintly on the bunk, her red hair sprawled out over her pale shoulders, beautiful even in her sleep. Fane's eyes lingered a moment over the curves the thin sheet revealed. Perhaps, when this was over, and they had landed, he might ally himself with Lissa. He'd thought about it before—though, as a rule, only when another girl shared his cabin.

He shook her awaie, grinning at the anger that always swept over her features at waking. This time, though, the sounds of surging power broaght her out of the depths more readily. She half-opened her eyes, "What day?"

"Wednesday," he answered

Lissa hated Wednesdays, when gravity was set for half over normal, and the air pressure and humidity were raised. There had been no way of knowing what the world at Cruise-end night be like, and each day had been different.

But she made no comment now: instead, she reached for the kofe and wafers he had heated and wriggled rapidly into her kirtle and officer's halter. She giggled suddenly, and he realized he'd been standing with one arm in his tunic and the other hanging for the last few minutes. He pulled it on, just as the panel buzzed.

"Captain's meeting in fifteen minutes," the speaker announced. "Compulsory, not optional. Acknowledge."

Lissa pressed his button, and they went out into the hall, toward the nearest bank of teleports. The Kraling still had the mono-relay setup—one of the many disadvantages of a ship two branchings old and long outmoded—and they had to wait while other previous jumps were cleared. Then the light blinked, and they were in the Captain's observatory.

The star they were nearing was bright enough by now to need shields over it, and the tank had four planets showing around it—two buge ones, and two of habitable size. Even as they watched, another, smallest of all, came into existence, far to the side. Observers were checking, but locating planets was always a slow business.

They were nearing the second observed planet from the star, about a hundred million miles out. Fane set the tank for maximum magnification, and gasped faintly. There are clouds in the atmosphere, thick over much of the planet. Below, the markings showed what must be continents and seas. Fane had never seen a planet, but study of detailed reports about several hundred that the Cruise along this branch-line passed had made him generally familiar with them. This was unusually rich in evidence of air and water. He reached the key and dialed the tank for details.

Estimated pressure, fifteen pounds at the surface; gravily about normal; nitrogen and oxygen four to one, traces of carbon-dioxide; average temperature midway between equator and poles about right for comfort; estimated rotation around star one year; rotation on axis about twenty-four hours—generally an almost ideal

world. There was an extreme tilt of the axis from the plane of rotation about the sun—which might make for a highly variable climate, but not beyond tolerable limits. And certain phenomena indicated that there was vegetation based on chlorophyl already on the planet!

LISA shuddered estatically, "Ours, Fane—all ours! After all the gencrations, we are chosen. Discoveries, novelty, thrills, excitement—a whole world to bend to our desires—space unlimited to spread out for our children!"

"Mud a base," he added, more soborly. He caught a glimpse of his chished resures, lean, tall body, and some sold between the sold between irony in the sold between the iron, the less than and a sold between ment, he felt some of her dear in through him, but he shook them back. "A place where we can build again rear cities and increase, study and perfect ourselves. No more being little creatures in tipy worlds of metal, unnatural to the universe."

She made a mouth at him, but the warning bell cut it off. He started for the teleport, but Lissa dragged him back. "Fane, before you go—are you with us?"

He looked at her in surprise. "With you?"

"Do you want Cruise-end here? Will you vote for it? Even if your father wants to go on, along with the other old men who think because they were born in space their grandchildren should be born the same? Fane, are you on our side?"

It hadn't entered his mind to doubt, though he had heard talk among his father's friends that giving up the ships for a planet was like leaving a small, comfortable bed for a big room full of needles. He looked at the globa in the tank again. "I'm with you!"

•

His father was already seated at the

head of the table where captains of the fifteen ships, their allies, or their companions with them, waited. Fane settled beside Lissa, conscious of the envious eyes on him. His father nodded, and picked up the ceremonial scrulks.

"It is customary," Commander Bran began, "when approaching a place where branching may be made--"

Lusato, of the Volanyi cut in quickly. "Branching? Are we to set down, build new ships for our surplus population, and then split off into two parties—to go off on the Cruise? No! By God and by Atom, we stay here. I've seen the world in the tank; it's Cruise-end!"

Bran turned to him, a faint smile on his face. "I was about to say that, in this case, the customary reading of our history seems unimportant, since you are all impatient to decide. Any, objections?"

They stirred, and nodded quick agreement. Most of the history was half-legendary, anyway. A short-lived cult of fanatics had killed the custodians and destroyed most of the records after the second branching. They knew they had been sent from some world to find and colonize another solar system, and to report back-sent out in a ship so crude that it seemed impossible it had made the voyage at allone that had taken eighty years to travel six-light-years. It had found no hospitable planet, and gone on, until finally the pressure of population and exhaustion of supplies had forced it down on a barren world. There, somehow, more ships had been built, and the expedition had split, each half going off independently, to cover more space. Since then, there had been ten other such branchings-and incalculable progress. Now the ships made better than three-quarters light speed. powered by engines that took energy directly from space, and reacting through the kral fields directly on space for their drive. They could take any matter-even the massive stuff from a dark star-to build whatever they liked.

Bran smiled again, "Very well, We have a decision: the world below can perhaps, be Cruise end. Or any of these worlds can lead to another branching-since most of our young men feel cramped by the necessary restrictions on having children in our space. But I feel I should point out that we have already achieved all that we could have done, had we found a planet long ago-and more. We represent inconceivable progress, meaningless figures of population, and innumerable cultures, if we assume even half of the branching parties have survived. We are not subject to the whim of a planet, but make our own conditions. And the world to which we are to report—it is lost, hopelessly. Why behave like grown men looking for a womb into which to retreat?"

Lissa looked at Fane, and he felt himself rising to his feet. Bran nodded for him to speak.

"We want Cruise-end." he said slowly, trying to find his reasons. "We've done well here-nobody questions that. But men belong on planets. father-where a billion people may work together, and where real progress can be made. You tell us we've gone far-but how far must the original world have gone? Suppose they come looking for us-and find us a bunch of primitives, living in what they consider hovels? Will we be happy in space then? By now they may have the very planets on which they live moving throughout space. They may travel faster than light-we know it is possible! They-"

"You want new adventures, unlike the old?" his father asked.

"Very well," Fane said; "we want new adventures. Is that wrong?" Lissa jumped up beside him.

The younger men picked it up. Bran shrugged, and nodded, counting the hands. It was nine to six to make

"Vote!"

this Cruise-end. Bran noted it down on the scrolls, and rose. "That's all, captains—except that you can still change your minds. Look at your ships when you return, and imagine life on the planet. Then wonder if it may not already be inhabited, since it is so well adapted for life. Because—it is!"

He turned and went out. Lises caught Fane's arm, and bent to his ear, to whisper, but he jerked back, was a wait, pouting, until the others had gone. "You needn't worry, Fanel I'm not trying to ally wish you —not after what you called a speech. All I wanted to say was that it's already beginning! Just think, a primitive race to overcome. We'll live, Fane—really live! We'll be heroes, lighthus, conoucrine..."

SOMETHING hit the ship, jerking it as if space had dropped out from under it. The air swooped past them, roaring down the corridor, until the slap of air-seals went on. From overhead, the scream of a siren sound-

ed, and the speakers snapped on.
"Captains to stations! Ships are under attack! All officers at stations!
Locators..."

Fane jerked past Lissa and hit the studs of the teleport savagely, to come out in the Kraling's observation-control room. He snapped orders, after a single glance at the tank, but saw that the screens had already dropped. The generators took up a heavier hum under the load

Outside the ships, space seemed to swarm with tiny specks. The sister ships of the Kraling seemed monstrous hulks beside them, hage doughnuts with lumps instead of holes in their middles, lumbering along at a crawl as they continued to slow toward the planet below. The little specks darted here and there, leaving trails of fire behind them. They twisted and turned impossibly.

Fane focussed on one. It was obviously a one-man vessel, open except for a narrow frame. The pointed nose

with the power and control section ledback across the swelling frame to a tail that belched added flame whenever the vessel turned—obviously a steering mechanism. He puzzled back In his memory for the drive being used and finally came up with itthe distorter that buckled space slightly. It could serve as a shield as strong as metal walls, yet it was so instable that only a small vessel was possible. Even then, it kept breaking down and reforming, making the fiery trail of electrons around and behind it-huilt from the collapsing of space in the distorted field.

One came down against the Kraling, and the big ship lurched, while a gout of roaring flame danced off into apace behind it, where its field had touched

that of the ship.

Then Fane swore in sudden amazement. Inside it was a woman—as human as Lissa, though her face was set in a mask of concentration and hate as she tried to hold her fleld steady and bore back for another strike.

Men were running in answer to his orders, space-suited and heading for the outer guns along the rim of the Kraling. He saw the same maneuver going on at the Spendar, where fat old captain Monot was probably letting Lissa run things. The other ships were all following suit, now.

Two of the little ships suddenly came into the fleld of the guns, and imploded. Where they had been, all metal ceased to be, and the unprotected figures of the male and female drivers of the little ships suddenly puffed up and died in noon space.

Fane felt sick. He had heard the legends of battles with other races, but these present were human—or nearly so. And their cause was hopeless. They were gallant enough—they still came roaring in for the battle, though they could do no harm to the big ships now, and were sitting ducks —whatever ducks were—for the gunnern. The fools! If they had no better than sneed distortion. Me Tesieve alone could blast the atmosphere off their planet, or set the inner core into atomic explosions that would rip it to about the set of the set of the set.

Suddenly he countermanded his orders to the gunners and went running toward the port, pulling on his spacesuit. "Give me a gig, invisible," he ordered over his helmet phone.

The small gig used for plexing up apecimens of rock—or with luck, for examining planets they might find—was waiting, just shaling into his bility as he reached it. He tossed open the usy port, and leaped to the controls. There were only two of the lite shigh left, and he had not into caution. He ripped upward at full acceleration, jerked the gig toward as full acceleration, jerked the gig toward has the control of the cont

The cargo-hatch swung shut, and he adjusted his controls, damping out the space distortion as quickly as air could run into the hold. The girl driver let out a frightened screech, and fainted as she seemed to be exposed to empty space.

He went back to the hold, cutting off the power-consuming invisibility, and found her sprawling across the cushions of her tiny machine, but unharmed. So close, she looked even more human. The ghastly make-up on her face came off with a few quick data, revealing normal enough skin. He bent and jerked the brief costume off her, just as she came to.

The absence of clothes made no difference to her, but his presence was a shock second only to her expected death. She drew back, muttering strange words in a moaning monotone. Like her body, there was nothing inhuman about her voice or her reactions.

Then she was at him, clawing and scratching. He clipped her quickly on

the jaw, and carried her to the control room, where he set the gig back toward the Kraling. "Kill the spacewarp drives and put in a small kral field, with invisibility." he told the men. "And take this to my cabin."

HE WENT at a full run to the control room, switching into the Commander's line. "Dad, there isn't anything non-human about my captive!"

Bran's voice was tired and weary.
"I know—I had a tracer on you. This world must have been found by another branch and settled. It isn't our right to invade—we'll have to go on."

But there was a satisfaction to his final words, Fane noticed I le started to protest, when another voice came on, that of Lissa. "Captain Lissa—Monoi had a heart attack, Commander Bran, we voted! That still stands! If they've sunk this far, or never gotten beyond the space distorter, they don't rate a world. We protest."

Once a vote was made, it took unanimous assent to change it. Bran's sigh indicated his failing hopes. "Very well. What now. Fanc?"

"I'm going to follow the other ship "call of fa sy attack on him." That him an invisibility suit, and I'm taking an invisibility suit, and I'm taking an invisibility suit, and I'm taking an invisibility suit, and the suit of the suit

Fane was gone again at a run, while excitement stirred in hlm. Lissa had been too high-handed—but slie was right. He hated the killing, and yet something stirred in him. With a whole world before them, and a generation of making it wholly theirs,

life would have gest that it could never have on the ship.

He spotted the retreating single tiny ship, and caught up with it easily, following it down. Others were patrolling below. They obviously had no test for invisibility.

•

Another ridiculous battle was going on when he returned, but he paid no attention to it.

He dropped onto the Krallng, throwing out a bundle, and began a report before he reached the control room, coupling in through his sult phone. "They have a dozen languages, inhete—but one of 'them is the same as the language of the old records! They pronounce it oddly, but on one Island they seem to be trying to revive it—they call it English! I found some newspapers in it. I'm sending them over."

He cut off before the excited babble of the other ships could reach him. The fracas outside was dying down now, as the ships retreated before the power of the larger vessels. Fane took a look at the tank, nodded to his lieutenant, and went back to his cabin.

It seemed incredible; no culture could drop that far. He had found no clue as to the Branch that had settled this world, nor as to the time they had been there. But the population indicated it must have been many seperations before.

Even to his unpracticed eye, there were people here who were mere property—owned by others, a few who lived in what must seen to them lux-uy. The papers confirmed it, reporting on the "sixe" rebellion just put down in connection with bib "have in the content of the papers confirmed it, reporting on the "sixe" rebellion just put down in connection with bib "have into the content of the papers of the papers

science was little more than witchcraft, and that human dignity seemed to be something talked about a great deal, with no understanding.

Any Branch that had so far lost their culture had no right to a planet!

"The captive is being washed and disinfected for possible disease," he was told, but he only half beard it. He muttered an order for her to be sent when it was finished and went lint his cabin.

IT BECAME more incredible as he studied the duplicate records and papers he had kept for himself. Terms that were meaningless began to have meaning-and ugly ones. Money became a symbol for one man to own more than another, irrespective of right and contribution to humanity. Nation became a term that meant disunity and hatred. They fought sayagely against this "invasion"-and no wonder! They'd been fighting for thirty years before among themselves. with only a probibition against atomics and nucleonics—because those ruined the wealth and the wealthy.

One nation, he saw, was trying to get the practice of slavery banned and to begin exploiting the planate they had discovered again. For a time, it looked like annity—and probably was, for them. But it was a sanity which included mob hysteria, persecution of minorities—apparently smaller groups who disagreed or were somehow different—and incredibly inefficient controls. And they talked before "Dark Age" a few conturts

He threw it aside in disgust, and went to look at the control room. When he came back, Lissa and the captive were in the cabin; Lissa was experimenting with a tlny nervestimulator that sent the girl Jerking and Juroping, screaming faintly. He jerked it from Lissa's hande,

"Bitch!"

She grinned casily. "All right, Fane.
I won't destroy your little plaything;
I'll svan let you have others, when

we've captured these. But don't forget-I have my rights, too."

He looked at her slowly, and for the first time, he rally saw her. She'd fit, down there; she'd fit beautfully. Here, her future was clear enough—she'd try to become Commander by every trick she could—and the tardy, reluctant Psychometrists would declde that she must be given a mind-quieting, and a job of no importance; they'd hold off until the last moment, but the welfare of the Branch came before everything also.

He picked her up by one arm and a leg and threw her out into the hallway, where she went off, chuckling at what she thought lay behind his

action.

The captive stared at him doubtfully, "Bitch! You speak English!"

Her accent was barbarous, but he

could understand it.
"Of course. You're from that is-

"Slave there, yes. But I was going to be freed—I'm from Nioway, and we don't have slaves. We can speak English, most of us—once it was our language, too."

It was the most progressive of the savage communities there, covering one whole continent. He nodded, and she glowered at him. "England was going to free all its slaves—until you came along- and we had to be used for war. England and Nioway are making a treating. Now."

She slumped down onto the floor and began crying. With a sudden impulse, he pulled her up beside him. and tried to comfort her. One person didn't matter out of the billions that would be eliminated when they took the planet, and such savages hardly merited any consideration. Yet sha seemed as normal and human as he was-there was nothing savage about her. The culture she came from was atrocious, but it seemed that the people in it could be simply normal humans in a crazy world. Now she was a(raid, sick, and miserable, willing to find comfort even from a captor.

On that, he thought grinly, she'd probably had experience.

HIS FATHER'S voice awoke him.
The Commander had come there
In person. Sandra, the girl, darted
back to the corner of the room, her
face turning scarlet for some reason,
but the Commander barely noticed

"They aren't a branch." Bran said wearily. "The planet is Earth-the world we all came from This is the mother that sent us out-we've circled and come home. We have a man of the system from before, and we've charted the planets. This-this is what happens to a race on a planet. Every five hundred years, they change direction-they recognize it as being due to something about sunspots, but they still obey the planetary law. They reached a peak, once, and sent us out, like an eag producing life. They might do it again, for all I know-but..."

Fane shook his head, and the knowledge was something that had been nagging his mind. "Then—they sent us out, father, expecting us to come back with new frontiers for them. I've seen some of the records, though I didn't understand. And we didn't come back—there are no new frontiers. This is the only planet suitable for men." He shook his head. "They gave us life—and now we're bringing them death."

The older man shrugged, "I tried to have the decision changed, but Lissa refuses. The others-except youhave agreed, and I might even change your mind. But it doesn't matter; the psychodynamicists have worked out enough on the basis of the records to predict that. If we retreat now, they'll still know we could have taken them with a power they can't even dream of. And they'll give up, sick at their own little progress, to go back down the road to full savagery, or to die. Whenever one of their little backwaters of the Dark Ages has been found by the more advanced, its culture has died. This time, they will all be sav-

He turned on his heel to leave. Then he stopped.

"In spite of the Covenant, Fane, hirteen of us are leaving—we have seen enough of life on a planet. We know that man was born there, but that he evolved beyond it once he reached space. Those who remain behind or drop back to the old level are swated. The future of man belongs to swated. The future of man belongs to swated to the control of swater with Lisas. You can come—or you can stay with Lisas.

Fan stared about, trying to avoid his father's eyes. "I'll stav!"

He sat miserably, thinking it over, and this time Sandra tried to comfort him. But he wanted none of it. One ship alone could ruin a planet—and it seemed that none would be needed to ruin this mother world which had borne offsoring she could not follow.

•

Sudden, savage attack began again, and this time the ships were larger—two-man affairs, with one man lighting to control the instable field while the other used the full power of its waste to strike again and again at the interstellar vessels. Fane swore, and went into the control-room

Some of the ships from Earth were dropping from their own fallures. But they had courage.

Thirteen of the ships above began moving slowly away—their fields were lowered to keep from upsetting the instable drives of the tiny ships from Earth, and there were no guns firing from them. Bran and the other twelve captains were keeping their word.

"Fane!" Lissa's voice came over the communicator. "Fane, my darling, I knew you'd stick. Give them hell!" Her ship was spouling guns, and

dropping off the little craft, like a hot plate destroying drops of water. The tiny craft suddenly came swooping down at him, as II detecting indecisiveness. He watched the harmless display of fire they set up from his screens impassively, and culcantly ordered out a few gunners to chase them back. In the tank, one of the ten ships moving away hesitated. It's fine to watch such a nice clean start. Fane though bittery.

Beside him, Sandra had crept up and was watching with a white face.

SLOWLY, his band descended on the controls. The little ships darted down again, and a shout came up from the engine pit speaker. "Captain Fane, strengthen your screenlt's too low! We're being pitted a little here."

"Something wrong," he shouted back hoarsely. "Do you detect new radiation?"

"No!"

"Neither do I—but we're losing screen power! All hands—evacuate shin!"

He waited tensely, watching the counter on the teleport click off each use as the men obeyed. A thousand drills had made it automatic. And beside him, another counter indicated steadily dwindling power in the field around, though the generators still howled.

Somewhere below, power was running into huge batteries of accumulators, shunted across the control panel, and building up and up, far beyond overload. Fane grinned tensely. "Lissa!" he called. "I'm under some new stack. Can you cover me?"

She swung her ship toward him, stretching out her shield to the mas-imum, and drawing closer to make them meet. The tiny swarm of ships came at them savagely now. "Fane—what is 11? Why—?"

The ships were almost touching now—and the accumulators were far beyond overload. Something like a small sun leaped suddenly from the Kraling toward her ship, and the shield vanlahed. Fane heard her instinctive order to abandon ship, and knew that it was equipped with simultaneous teleports that would clear it in three seconds. Her call had been made without time to realize what had happend, but now she knew, and a burst of profanity poured from the speaker as she jerked her unmanned ahip back under the state of the state of the state of the control of the state of the state of the control of the state of the

She might make it—if she could hold, she could call back he men. He had no illusions as to what would happen to him them—the overload's discharge had burned out every bit of power in the ship, and he was already lalling toward Earth, with the little ships picking bits of him off every second.

Something flashed in the tank, and he saw the third ship lashing out with the maximum power of its beams. Lissa's ship seemed to fall apart under them

IT WAS NO speaker that brought Lissas's words a second later. She stood behind him in the teleport booth, stepping slowly forward, with a hand-blaster held toward him. Her face was insane, and she strangled over the words: Obviously, she hadn't seen where the beams originated, and blamed him.

Sandra struck her down with a flylng leap against her knees. Behind her,
suddenly, the erect, proud form of
Bran stood. He bent over, seized
Lisea around the weist, and tossed
her into the teleport, punching out a
code rapidly.

"They'll take care of her in Psycho," he said quietly. "Good work, Sandra."

His lingers reached out for the teleport controls, and locked them, while Fane slowly realized that the third ship to drop back had been his father's. He grinned slowly, nodding, and the older man echoed his chuckle.

"We're not so much different, after all, son-we both thought of the

same trick. You've still got the gig, complete with invisibility, Good, Let's leave your ship, along with mine and Lisas's, for those tiny bits of courage out there to break into shreds before they reach atmosphere. I think they'll be convinced by now that we put on a big flight, but that we couldn't match them for power—and they'll go home feeling victorious until they begin wondering if we were only the advance guard. That should cure their little fights, and get them moving toward some real progress."

Fane led the way to the gig, while Sandra pointed out Nioway to him. Suddenly he started to turn back, but Bran shook his head. "I brought enough jewels and other trinkels, Fanc. We can be rich enough for what we'll need to do—if this girl you've found can keep quiet."

Fane grinned, and translated. Sandra nodded emphatically, and the older man chuckled again.

They'd lost their rightful domain, loss it almost at the moment they'd realized what was truly theirs, what they had become—star-man. Once man conquered space, planets were no longer for him; he belonged out there among the stars, to expand and take all the multiple courses of progress. Well...the others would know, yet when the stars they are they are

"We'll pay our debts," he said. "We came home unknowingly, and our coming almost wrecked it."

Home. A young man on an old world. But his son, or grandson at the latest, would go forth, perhaps on another ship seeking frontiers that didn't exist. Earth could produce one other child, at least. And what he and the other immigrants knew must never be told; Earth's children must find this truth for themselves.

He pulled Sandra closer, and headed toward Nioway.