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## THE LOBBY

## Where the Readers and the Editor Talk Things Out

(heading by Millon Laros)



OME READERS haven't liked my occasional remarks to the effect that, in the long run, science fiction should be judged pretty much on the same basis as any other type of fiction. They have protested that this puts science fiction on the same level as western, sports, and detective sto-ries-and how could I compare such mundane, and often worthless, material with such soul-stirring prose as Slience fiction? They have wondered if I were getting tired of science fiction, and were now out to debunk it.

Yet, these same readers might find it somewhat ridiculous if I were to write letters and articles trying to prove that the "sea story" was really
a unique type of fiction, with possibilities not to be found in stories situated on land, with different requirements for excellence than the latter and smelow above and beyond it. If I were to point out that the sea story, at its best, must be written by someone who knows the sea and ships and sailorsmeither through first-hand experience, or extensive vicarious expe-rience- 1 doubt if there would be much objection. But when I claimer, if I did, that the sea story is "above" the basic story requirements for fiction, because of its uniqueness, then I could espect a fatr amount of ribbing from my readers.

And there is my point: granted that the science fiction story, by nature, does offer plot and background possibilities not to be found in other fields (including that of the sea story)
[TMin To Rarge 8]

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[^1]there are still necessary elements for good fiction in this genre, and these are the same as in any other type of fiction. And it has been this attitude on the part of many readers and writers that science-fiction is somehow "above" the mundane requirements of good story-writing that has partly been responsible for so much bad writing, bad story-making, bad characterization, etc, in science fiction.

You will find the "idea" story, the "mood" story, the "chronology", etc., in other forms of fiction, too; but where the story is a good one, the author has taken pains to fulfill the essentials of story-making. And this is the case more often than not, outside of science-fiction; for the editors of western, detective, sports, adventure, etc., magazines are rarely so infatuated by the medium itself that they will take a bad story just for the sale of a good idea, fine mood, interesting, chronology, etc.

To restate it in another way: a flawed story is none the less flawed simply because it is labelled "science fiction", because it has some mindshattering formulation, because it has a wonderfully strange mood about it, or because it presents an interesting slice of imaginative "future hostory". The best stories in the science fiction field, the ones which are recognized as excellent by non-fans and occasional readers are those which conform to the basic standards of fiction-writing elsewhere.

Writing styles and approaches change, but basic standards remain. One can read H. G. Wells' "When the Sleeper Wakes" today (as I just did) and smile at the picturizations which have failed to forecast our own times, let alone the future century-from our own standpoint-in which the story takes place. One can admire the vision that Wells did show. One can feel a quaintness about the writing at places -remembering that worthy straight fiction was also written in the same
way at the time. But the basic excellence of the novel remains, for all that is outdated about it.

On the other hand, the many stories which had little more than a fascinating idea, etc., but which presented cardboard cutouts for characters, cannot stand re-reading once the gimmick is passe. Take the once-famous "Girl in the Golden Atom": now that there is no longer the slightest doubt about the utter absurdity of the basic plot, the characters seem even more juvenile than before. What remains fascinating about this story is what was excellent to begin with: a vivid description of a person's feelings, and of the sights you might see around you, if, in some manner, you could be reduced in size. The rest is burlesque.

C ${ }^{\text {HARACTERIZATION, of }}$ - course others, has pointed out-can be overstressed; a faithful and painstaking presentation of a dull- person can make one yearn for Captain Future and his friends. Yet, there's no getting away from the fact that charactershuman or non-human-are what make or break a science fiction story in the long run.

I'd say that one essential for characterization is vividncss, whether what you have is a caricature-like the Americans of the Gun Club in Verne's still-delightful "From the Earth to the Moon"-or a believable person with thoughts, feelings and conflictslike Graham in "When the Sleeper Wakes". A good caricature, like Conan the Barbarian or Sherlock Holmes, will survive re-reading, where a cardboard cutout like Larry O'Keefe ("The Moon Pool") becomes more tiresome each time you return to him, if he doesn't disaffect you completely the first time.

There's certainly no onus in creating a viable caricature. Consider the
[Turn TO Pago 81]

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daith clasfed the stor-men's orm with ono hond, while hor othor arm gripped his waist. Te generetor in derin's skull rusponded to his will... they rose quietly and went slowly
"Look around you, Jorun of Fulkhis. This is Earth. This is the old home of all mankind. You cannot go off and forget it. Man cannot do so. It is in him, in his blood and bones and soul; he will carry Earth within him forever."


Novelet of Latter Years
by Poul Anderson

${ }^{6} \mathrm{~N}$0," SAID the old man. "But you don't realize what it mearis," said Jorun. "You dun't know what you're saying."
The old man, Kormt of Ifuerdar, Gerlaug's sun, and Speaker for Solis

Township, shook his head till the long, grizzled locks swirled around his wide shoulders. "I have thought it through," he said. His voice was deep and slow and implacable. "You gave me five years to think about it. And my answer is no."

Ia-e ielt a weariness rise within hi:. It had been like this for days mo.r. weeks. and it as like trying to krok doxn a mountain. You beat on its rocky flanks till your hands were blooly: and still the mountain s:rod there, suilight on its high snowfields and in the forests that rustled in its slopes, and it did not really rosice you. You were a brief thin buye between two long nights, but the mo!ntain was forever.
"You haven't thought at all," he suid with a rudeness born oi eshanstion. "Youve only reacted unthinkindy to a dead symbol. It's not a homan raction, coen, it's a verbal rellex."

Kormt's eyes, mesined in crow'sfeet, were serene and steady under the thick gray brows. He smiled a litile in his long beard, but made no other reply. Had he simply let the insult glide ofi him, or had he not understond it at all? There was no real talking to these peasants; too many millennia lay between, and you couldn't shout across that gulf.
"Well," said Jorun, "the ships will be here tomorrow or the nest day, and itll take another day or so to se: all your people aboard. You have that long to decide, but after that it il be too late. Think about it, I beg of you. As for me, I'll be too busy to a se: further."
"You are a good man," sail Komat, "and a wise one in your fashion. fint you are blind. The:e is s.exthing dead inside you."

He wased one huse garled hand. -I. .' around you. Jorun of Fulkins. This is Ertl!. This is the old home o a! homankind. You cannot go off a-t ires it. Man cmmot do ss. It i, in :om in his blood and boues and Łい- a•d wal: he will carry Earth 5:\%n 3:n irever"
fors ex inacted along the arc
of the hand. He stood on the edge of the town. Behind hin were its houses-low, white, hali-timbered, roofed with thatch or red tile, smoke rising from the chimneys; carved gallerics overhung the narrow, cobbled, crazily-twisting streets; he heard the noise of wheels and wooden clogs, the shouts of children at play. Beyoid that were trees and the incredible ruined walls of Sol City. In front of him, the wooded hills were clearel and a gentle landscape of neat fie!ds and orchards rolled down toward the distant glitter of the sea: scatterd farm buildings, drowsy cattle, winding gravel roads, fence-walls of ancicat marble and granite, all dieamity under the sun.

He drew a deep breath. It was pungent in his nostrils. It smelled of leaf-mould. plowed earth baking in the warmth, summery trees and gardens, a remote ocean odor of salt and kelp and fisi. He thought that no two planets ever had quite the same smel!, and that none was as rich as Terra's.
"This is a fair world," he said slowly.
"It is the only one." said Kormt. "Xan came from here; and to this, in the end, he must return."
"I wonder-" Jorun sighed. "Take me: not one atom oi my body was fion this soil beiore I landed. My poople lived on Fulkhis ior ages, and changed to meet its conditions. They vould not be happy on Terra."
"The atoms are nothing." said Kormt. "It is the form which matters. and that was giren t, you by Eath."

Jorun studiad him for a moment. Kormt was like most of this planet's ten million or so people-a dark, stocly folk, though there were more blond and rel-haired throwbacks here than in the rest of the Galay. He
was old for a primitive untreated by medical science-he must be almost two hundred years old-but his back was straight, and his stride firm. The coarse, jut-nosed face held an odd strength. Jorun was nearing his thousandth birthday, but couldn't help feeling like a child in Kormt's presence.

That didn't make sense. These few dweilers on Terra were a backward and impoverished race of peasants and handicraftsmen; they were ignorant and unadventurous; they had been static for more thousands of years than anyone knew. What could they have to say to the ancient and mighty civilization which had almost forgotten their little planet?

Kormt looked at the declining sun. "I must go now," he said. "There are the evening chores to do. I will be in town tonight if you should wish to see me."
"I probably will." said Jorun. "There's a lot to do, readying the evacuation, and you're a big help."

TTHE OLD man bowed with grave courtesy, turned, and waked off down the road. He wore the common costume of Terran men, as archaic in style as in its woven-fabric material: hat, jachet, loose trousers, a long staff in his hand. Contrasting the drab blue of Kormt's dress, Jorun's vivid tunic of shiiting rainbow hues was like a flame.

The psychotechnician sighed again, watching him go. He liked the old fellow. It would be criminal to leave him here alone, but the law forbade force-physical or mental-and the Integrator on Corazuno wasn't going to care whether or not one aged man stayed behind. The job was to get the race off Terra.

A lozely fitorld. Jorun's thin mobile features, pale-skimned and large-eyed,
turned around the horizon. A foir world we came from.

There were more beautiful planets in the Galaxy's swarming myriadsthe indigo world-ocean of Loa, jeweled with islands; the heaven-defying mountains of Sharang; the sky of Jareb, that seemed to drip light -oh , many and many, but there was only one Earth.

Jorun remembered his first sight of this world, hanging free in space to watch it after the gruelling ten-day run, thirty thousand light-years, from Corazuno. It was blue as it turned before his eyes, a burnished turquoise shield blazoned with the living green and brown of its lands, and the poles were crowned with a flimmering haze of aurora. The belts that streaked its face and blurred the continents were cloud, wind and water and the gray rush of rain, like a benediction from heaven. Beyond the planet hung its moon, a scarred golden crescent, and he had wondered how many generations of men had looked up to it, or watched its light like a broken bridge across moving waters. Against the enormous cold of the sky-utter black out to the distant coils of the nebulae, thronging with a million frosty points of dia-mond-hard blaze that were the stars - Earth had stood as a sign of haven. To Jorun, who came from Galactic center and its uncountable hosts of suns, hearen was bare, this was the outer fringe where the stars thinned away toward hideous immensity. He had shivered a little, drawn the envelope of air and warmith closer about him, with a convulsive movement. The silence drummed in his head. Then he streaked for the north-pole rendezvous of his group.

Well, he thought now, we fece a pretty routine job. The firt expedition hafe, jote yars cēu, prejred the matiocs for the foct thoy ks.e

10 ge. Oner perty simply has to organee these docile peasants in time jor the ships. But it had meant a lot of hand work, and he was tircd. It would be good to finish the job and get back home.

Or would it?
He thought of flying with Zarek, his team-mate, from the rendezvous to this area assigned as theirs. Plains like oceans of grass, wind-rippled, darkened with the herds of wild catthe whose hoofbeats were a thunder in the earth; forests, hundreds of silometers of old and mighty trees, rivers piercing them in a long steel gleam; lakes where fish leaped; spilling sunshine like warm rain, radiance so bright it hurt his eyes, cloud-shanows swift acrnss the land. It had all been empty of man, but still there was a vitality here which was almost frightening to Jorun. His own grim world of moors and crags and spin-driít seas was a niggard beside this; here life covered the earth, filled the oceans, and made the heavens clangerous around him. He wondered if the driving energy withis man. the force which had raised bim to the stars, made him hali-god and half-demon, if that was a lega.y of Terra.

Well-man had changed; over the thousands of sears, natural and contralled adaptation had fitted him to the worlds be had colonized, and most oi br: any races could not now feel a: $2 . \cdots$ here. Jorun thought of his o.:: :arty: round, amber-skinned Couii iton a tropic world, complaining bitterly about the cold and d-.nes: gay young Cluthe, gangling a:1 bulge-chested; sophisticated Taliverna of the fluwiag dark hair a-1 ive lutrons ejes-no, to them En-i was ooly one more planet, out on thesands they had seen ia their bee 5ies.

Lad $\Gamma$ a sentinertal fool.


E COULD have willed the vague regret out of his trained nervous system, but he didn't want to. This was the last time human eyes would ever look on Earth, and somehow Jorun felt that it should be more to him than just another piychotechnic job.
"Hello, good sir."
He turned at the voice and forced his tired lips into a fricnd!y smile. "Hello, Julith," he said. It was a wise policy to learn the names of the townspeople, at least, and she was a great-great-granddaughter of the Speaker.

She was some thirteen or fourteen ycars old, a freckle-faced child with a shy smile, and steady gieen cyes. There was a certain awkward grace about her, and she seenned more imaginative than most of her stolid race. She curtsied quaintly for him, her bare foot reaching out under the long smock which was daily female dress here.
". Are you busy, good sir?" she asked.
"Well, not to much," said Jorun. He was glad of a chance to talk; it silenced his thoughts. "that can I do for you?"
"I wondered-" She hesitated, then, breathlessly: "I wonder if you could give me a lift down to the beach? Only for an hour or two. It's toe far to walk there before I have to be home, and I can't borrow a car, or eren a horse. If it won't be any trouble, sir."
"Mmmm-shouldn't you be at home now? Isn't there milking and so on to do?"
"Oh, I don't lise on a farm, good sir. My father is a baker."

CTes, yes, so he is. I should have combered." Jorun considered for an Eant. There was enough to do in tores. and it wasn't fair for him to play kwhy while Zarek worked alone. - Riby de you mant to go to the beach, Jaith?"
"Te'll be busy packing up," she seid. "Starting tomorrow, I guess. This is my last chance to see it."

Jurun's mouth twisted a little. "All right:" he said; "I'll take you."
"You aie very kind, yood sir," she sati gravely.

He didn't reply, but held out his a-m, and she clasped it with one hand v:hile her other arm gripped his waist. The generator iaside his skull responded to his will, reaching out and clawing itseli to the fabric of forces and energies which was physical space. They rose quietly, and went so slowly seaward that he didn't have to raise a wind-screen.
"Will we be able to fly like this when we get to the stars?" she asked.
"I'm airaid not, Julith," he said. "You see, the people of my civilization are born this way. Thousands of years ago, men learned how to control the great basic forces of the cosmos with only a small bit of energy. Finally they used artificial mutation-that is, they changed themselves, slowly, over many generations, until their brains grew a new part that could generate this controlling force. We can now even, fly between the stars, by this power. But your people don't have that brain, so we had to build spaceships to take you away."
"I see," she said.
"Your great-great-great-grandchildren can be like us, if your people want to be changed thus," he said.
"They didn't want to change before," she answered. "I don't think they'll do it now, even in their new home." Her voice held no bitterness; it was an acceptance.

Privately, Jorun doubted it. The psychic shock of this upreoting would be bound to destroy the old traditions of the Terrans; it would not tale many centuries beiore they were calturally assimilated by Galactic civilization.
Assimilated-nice euphemism. Why not just say--eaten?

THEI L.ANDED on the beach. It was broad and white, runaing in dunes from the thin, harsh, saltstrealied grass to the roar and tumble of surf. The sun was low over the viatery horizon, filiing the damp, blowing air with gokd. Jorun could simost look directly at its huge disc.
lie sat down. The sand gritted tinily under him, and the wind rumpled his hair and iilled his nostrils with its sharp wet smell. He picked up a conch and turned it over in his fingers, wondering at the intricate architecture of it.
"If you hold it to your ear," said Julith, "you can hear the sea." Her childish roice was curiously tender around the rough syllables of Earth's language.

He nodded and obeyed her hint. It was only the small pulse of blood within him-you heard the same thing out in the great hollow silence of spacebut it did sing of restless inmensities, wind and foam, and the long waves marching under the moon.
"I have two of them myself," said Julith. "I want them so I can always remember this beach. And my children and their children will hold them, too, and hear our sea talking." She folded his fingers around the shell. "You keep this one for yourself."
"Thank you," he said. "I will."
The combers rolled in, booming and spouting against the land. The Terrans called them the horses of God. A thin cloud in the west was turning rose and gold.

- tre there oceans on our new planct:" 3ised Julith.
"Yes," he said. "It's the most Earthlize world we could find that wasn't a!re3dy inhabited. You'll be happy there."

But the tries and grasses, the soil and the jruits thereof, the beasts of the fie!d and the birds of the air and the i:ish of the waters beneath, form and co!or, smell and sound, taste and texiste, eierything is difjerent. Is a!!er. The difference is small, subtle, but it is the abyss of two billion years of separate evolution, and no other war!d can ever quite be Earth.

Julith looked straight at him with solemn eyes. "Are you folk afraid of Huldurians?" she asked.
"Why, no," he said. "Of course not."
"Then why are you giving Earth to them?" It was a soft question, but it trembled just a little.
"I thought all your people understood the reason by now," said Jorun. "Civilization--the civilization of man and his nonhuman allies-has moved inward, toward the great star-clusters of Galactic center. This part of space means nothing to us any more; it's almost a desert. You haven't seen starlight till you've been by Sagittarius. Now the Hulduvians are another civilization. They are not the least bit like us; they live on big, poisonnus worlds like Jupiter and Saturn. I think they would seem like pretty nice monsters if they weren't so alien to us that neither side can really understand the other. They use the cosmic energies too, but in a difierent way-and their way interferes with ours just as ours interferes with theirs. Different brains, you see.
"Anyway, it was decided that the two civilizations would get along best by just staying away from each other. If they divided up the Galaxy between them, there would be no interference; it would be too far from one civiliza.
tion to the other. The Hulduvians were, really, very nice about it. They're willing to take the outer rim, even if there are fewer stars, and let us have the center.
"So by the agreement, we've got to have all men and manlike beings out of their territory before they come to settle it, just as they'll move out of ours. Their colonists won't be coming to Jupiter and Saturn for centuries yet; but even so, we have to clear the Sirius Sector now, because there'll be a lot of work to do elscwhere. Fortunately, there are only a few people living in this whole part of space. The Sirius Sector has bcen an isolated, primi-ah-quiet region since the First Empire fell, fifty thousand years ago."

Julith's voice rose a little. "But those people are us!"
"And the folk of Alpha Centauri and Procyon and Sirius and-oh, hundreds of other stars. Yet all of you together are only one tiny drop in the quadrillions of the Galaxy. Don't you see, Julith, you have to move for the good of all of us?"
"Yes," she said. "Yes, I kno;s all that."

She got up, shaking herself. "Let's go swimming."

Jorun smiled and shook his head. "No, I'll wait for you if you want to go."

SHE NODDED and ran off down the beach, sheltering behind a dune to put on a bathing-suit. The Terrans had a nudity taboo, in spite of the mild interglacial climate; typical primitive irrationality. Jorun lay back, folding his arms behind his head, and looked up at the darkening sky. The evening star twinkled forth, low and white on the dusk-blue horizon. Venus-or was it Mercury? He wasn't sure. He wished he knew more about the early history of the Solar System, the first men to
ride their thunderous rockets out to die on unknown hell-worlds-the first clumsy steps toward the stars. He could look it up in the archives of Corazune, but he knew he never would. Too much else to do, too much to remember. Probably less than one percent of mankind's throngs even knew where Earth mas, today-though, for a while, it had been quite a touristcenter. But that was perhaps thirty thousand years ago.

Becanse this world, out of all the billions, has certain physical characteristics, he thought, my race kas made then into standards. Our basic ainits of length and time and acceleration, our comparisons by which we classity the swarming planets of the Gelaxy, they all go back altimately to Eorth. We bear that wrspoken memorial to our birthplace within our whole cioilization, and ritll bear it forever. But has she given us more than that? Are our own selves, bodies and mizuds and dreams, are they also the children of Eurth?

Now he mas thinking like Kormt, stubborn old Kormt who clung with such a blind strength to this land simply because it was his. When you considesed all the races of this wan-der-footed species-how many of them there were, how many kinds of man between the stars! And yet they all walked upright; they all had two eyes and a nose between and a mouth below; they were all cells of that great and ancient culture which had begun here, eons past, with the first hairy balf-man who kindled a fire against night. If Earth had not had darkness and cold and prowling beasts, oxygen and cellulose and flint, that culture might never have gestated.
l'm getting anlogical. Too tired, nerves worn too thin, psychosomatic control slippins. Now Earth is bcco:ning some obscure mother-symbol for me.

Or has she alweys bcem oad, for the whole race of us?
A seagull cried harshly overhead and soared from view.

The sunset was sunoldering away and dusk rose like fog out of the ground. Julith came running back to him, her face indistinct in thre gloom. She was breathing hard, and be couldn't tell if the catch in her voice was laughter or weeping.
"I'd better be getting home;" she said.
 HEY FLEW slowly back. The town was a yellow twinkle of lights, warmth gleauing from windows across many empty kilometers. Jorun set the girl down outside her home.
"Thank you, good sir," she said, curtseying. "Kon't jou come in to dinner?"
"Well-"
The door opened, etching the girl black against the rudiness inside. Jorun's luminous tunic made him like a torch in the dark. "Why, it's the starman," said a woman's voice.
"I took your daughter for a swim," he explained. "I hope you don't mind."
"And if we did, what would it matter?" grumbled a bass tone. Jorun recognized Formt; the old man must bave come as a guest from his farm on the outshirts. "What could me do about it?"
"Now, Granther, that's no way to taik to the gentleman," said the woman. "He's been very kind. Won't you come eat with us, good sir?"

Jorun refused twice, in case they vere only being polite, then acceptegladly enough. He was tired of cook-
er: 3: tie inn where he and Zareb bus-jei "Tnank you."

H ? en:ered. ducking under the low d)3:. A single long, smoky-raftered rom was kitchen, diningroom, and pas:lor: doors led off to the sleeping quasters. It was furnished with a clumsy elegance, skin rugs, oak wainsooting. carved pillars, glowing ornaments of hammered copper. A radium cloc!. which must be incredibly old, stord on the stone mantel, above a snapping fire; a chemical-powered gun. obviously of local manufacture, hung orer it. Julith's parents, a plain, quiet peasant couple, conducted him t. the end of the wooden table, while bali a dozen children watched him with large eyes. The younger children were the only Terrans who seemed to find this removal an adventure.

The meal was good and plentiful: meat, regetables, bread, beer, milk, ice cream, coffee, all of it from the farms hereabouts. There wasn't much trade between the few thousand communities of Earth; they were practically self-sufficient. The company ate in silence, as was the custom here. When they were finished, Jorun wanted to go, but it would have been rude to leave immediately. He went over to a chair by the fireplace, across from the one in which Kormt sprawled.

The old man took out a big-bowled pipe and began stuffing it. Shadows whe across his seamed brown face, his eyes were a gleam out of darkness. "Ill go down to City Hall with you s.an." he said; "I imagine that's whete the work is going on."
"les." said Jorun. "I can relieve Za:ck at it. I'd appreciate it if you did come. good sir. Your influence is very seradying on these people."
"I: should be." said Kormt. "I've titu their Speaker for almost a hundeaj gears. And my father Gerlaug -at beore me and his father Kormt "ذ ذ̇ese hise." He too's a brand
from the fire and held it over his pipe, puffing hard, looking up at Jorun through tangled brows. "Who was your great-grandfather?"
"Why-I don't know. I imagine he's still alive somewhere, but-"
"I thought so. No marriage. No family. No home. No tradition." Kormt shook his massive hcad, slowly. "I pity you Galactics!"
"Now please, good sir-" Damn it all, the old clodhopper could get as irritating as a faulty computer. "We have records that go back to before man left this planet. Records of everything. It is you who have forgotten."

Kormt smiled and puffed blue clouds at him. "That's not what I meant."
"Do you mean you think it is goed for men to live a life that is unchanging, that is just the same from century to century-no new dreams, no new triumplis, always the same grubbing rounds of days? I cannot agree."

JORUN'S mind flickered over history, trying to evaluate the basic motivations of his opponent. Partly cultural, partly biological, that must be it. Once Terra had been the center of the civilized universe. But the long migration starward, especially after the fall of the First Empire, drained off the most venturcsome elements of the population. That drain went on for thousands of years. Sol was backward, ruined and impoverished by the remorseless price of empire, helpless before the storms of barbarian conquest that swept back and forth between the stars. Even after peace was restored, there was nothing to hold a young man or woman of vitality and imagination here-not when you could go toward Galactic center and join the new civilization building out there. Space-traffic came ever less frequently to Sol; old machines rusted away and were not replaced; best to get out while there was still time.

Eiventually there was a fixed psychjomatic type, one which lived c!ose to the land, in primitive changeless communities and isolated farm-steads--a type content to gain its simple needs by the labor of hand, horse, or an occasional battered engine. A culture grew up which increased that rigidity. So few had visited Earth in the last several thousand years-perhaps one outsider a century, stopping briefly off on his way to somewhere else-that there was no challenge or encouragement to alter. The Terrans didn't zant more people, more machines, more anything: they wished only to remain as they were.

You couldn't call them stagnant. Their life was too healthy; their civilization too rich in its own way-folk art. folk music, ceremony, religion, the intimacy of family life which the Galactics had lost-for that term. But to one who flèw between the streaming suns, it wás a small existence.

Kormt's voice broke in on his reverie. "Dreams, triumphs. work, deeds, love and life and finally death and the long sleep in the earth," he said. "Why should we want to change them? They never grow old; they are new for each child that is born."
"Well," said Jorun, and stopped. You couldn't really answer that kind of logic. It wasn't logic at all, but something deeper.
"Well," he started over, after a while, "as you know, this evacuation was forced on us, too. We don't want to move you, but we must."
"Oh, yes," said Kormt. "You have been very nice about it. It would have been easier, in a way, if you'd come with fire and gun and chains for us, like the barbarians did long ago. We could have understood you better then."
"At best, it will be hard for your people," said Jorun. "It will be a shock, and they'll need leaders to
guide them through it. You have a duty to help them out there, good sir."
"Maybe." Kormt blew a series of smoke rings at his youngest descendant, three years old, who crowed with laughter and climbed up on his knee. "But they'll manage."
"You can't seem to realize," said Jorun, "that you are the last man on Earth who refuses to go. You will be alone. For the rest of your life! We couldn't come back for you later under any circumstances, because there'll be Hulduvian colonies between Sol and Sagittarius which we would disturb in passage. You'll be alone, I say!"

Kornt shrugged. "I'm too old to change my ways; there can't be many years leit me, anyway. I can live well, just off the food-stores that'll be left here." He ruffled the child's hair, but his face drew into a scowl. "Now, no more of that, good sir, if you please; I'm tired of this argument."

JORUN nodded and fell into the silence that held the rest. Terrans would sometimes sit for hours without talking, content to be in each other's nearness. He thought of Kormt, Gerlaug's son, last man on Earth, altogether alone, living alone and dying alone; and yet, he reflected, was that solitude any greater than the one in which all men dwelt all their days?

Presently the Speaker set the child down, knocked out his pipe, and rose. "Come, good sir," he said, reaching for his staff. "Let us go."

They walked side by side down the street, under the dim lamps and past the yellow windows. The cobbles gave back their footfalls in a dull clatter. Once in a while they passed someone else, a vague figure which bowed to Kormt. Only one did not notice them,
sn old woman who walled crying verven the high walls.

- They say it is never night on your worlds," said Eormt.

Jorm threw him a sidelong glance. His face was a strong jutting of highlights from sliding shadow. "Some planets have been given luminous skies," said the technician, "and a few stin have cities, too, where it is always light. But when every man can control the cosmic energies, there is no real reason for us to live together; most of us dwell far apart. There are very dark nights on my own world, and I cannot see any other home from my own-just the moors."
"It must be a strange life," said Kormt. "Belonging to no one."

They came out on the marketsquare, a broad paved space walled in by houses. There was a fountain in its middle, and a statue dug out of the ruins had been placed there. It mas broken, one arm gone-but still the white slim figure of the dancing girl stood with youth and laughter, forever under the sky of Earth. Jorun linerr that lovers were wont to meet here, and briefly, irrationally, he wondered how lonely the girl would be in all the millions of years to come.

The City Hall lay at the farther end of the square, big and dark, its eaves carved with dragons, and the gables topped with wing-spreading birds. It was an old building; nobody knew how many generations of men had gathered here. A long, patient line of folk stood outside it, shuffling in one by one to the registry desk; energing, they went off quietly into the darkness. toward the temporary shelters erected ior them.

Walking by the line, Jorun picked faces out of the shadows. There was 2 young mother holling a crying child, ber head bent over it in a timeless pose. alurmaring to soothe it. There Fas a mechanic. still sooty from his wet. smiling pearily at some tired jase oi the man behind him. There
was a scowling, black-browed peasant who muttered a curse as Jorun went by; the rest seemed to accept their fate meekly enough. There was a priest, his head bowed, alone with his God. There was a younger man, his hands clenching and unclenching, big helpless hands, and Jorun heard him saying to someone else: "-if they could have waited till after harvest. I hate to let good grain stand in the field."

JORUN WENT into the main room, toward the desk at the head of the line. Hulking hairless Zarek was patiently questioning each of the hundreds who came hat in hand before him: name, age, sex, occupation, dependents, special needs or desires. He puaches the answers out on the recorder machine, half a million lives were held in its electronic memory.

Oh, there you are," his bass rumbled. "Where ive you been?"
"I had to do some concy worl,", said Yorun. That was a private code term, anneng others: concy, conciliation, anything to make the exacuation go smoothly. "Sorry to be so late. l'll take over now:"
"All right. I think we can wind the whole thing up by midnight." Zarek smiled at Kormt. "Glad you came, good sir. There are a few people I'd like you to talk to." He gestured nt half a dozen seated in the rear of the room. Certain complaints were best handled by native leaders.

Kormt nodded and strode over to the folk. Jorun heard a man begin some long-winded explanation: he wanted to take his own plow along, he'd made it himself and there was no better plow in the universe, but the star-man said there wouldn't be room.
"They'll furnish us with all the stuff we need, son," said Kormt.
"But it's $11: y$ plow!" said the man. His fingers twisted lis cap.

Korme sat down and began soothing him.

The head of the line waited a few
meters off while Jorun took Zarek's place. "Been a long grind," said the latter. "About done now, though. And will I be glad to see the last of this planet!"
"I don't know," said Jorun. "It's a lovely world. I don't think I've ever seen a more beautiful one."

Zarek snorted. "Me for Thonnvar! I can't wait to sit on the terrace by the Scarlet Sea, fern-trees and red grass a!l around, a glass of oehl in my hand and the crystal geysers in front of me. You're a iunny one, Jorun."

The Fulkhisian shrugged slender shoulders. Zarek clapped him on the back and went out for supper and sleep. Jurun beckoned to the next Terran and settled down to the long, almost mindless routine of registration. He was interrupted once by Kormt, who yawned mightily and bade him goodnight; otherwise it was a steady, halfconscious interval in which one anonyinous face after another passed by. He was dimly surprised when the last one came up. This was a plump, cheerful, middle-aged fellow with small shrewd eyes, a little more colorfully dressed than the others. He gave his occupation as merchant-a minor tradesman, he explained, dealing in the little things it was more convenient for the peasants to buy than to manuiacture themselves.
"I hope you haven't been waiting tov long," said Jorun. Concy statement.
"Oh, no." The merchant grinned. "I knew those dumb farmers would be here for hours, so I just went to bed and got up half an hour ago, when it was about over."
"Clever." Jorun rose, sighed, and stretched. The big room was cavernously empty, its lights a harsh glare. It was very quiet here.
"Well, sir, I'm a middling smart chap. if I say it as shouldn't. And you know. I'd like to express my appreciation oi all jou're doing for us."
"Can't say we're doing much." Jorun locked the machine.
"Oh, the apple-knockers may not like it, but really, good sir, this hasn't been any place for a man of enterprise. It's dead. I'd have got out long ago if there'd been any transportation. Now, when we're getting back into civilization, there'll be some real opportunities. I'll make my pile inside of five years, you bet."

Jorun smiled. but there was a bleakness in him. What chance would this barbarian have even to get near the gigantic work of civilization-let alone comprehend it or take part in it. He hoped the little fellow wouldn't break his heart trying.
"Well," he said, "goodnight, and good luck to you."
"Goodnight, sir. We'll meet again, I trust."

Jorun switched off the lights and went out into the square. It was completely deserted. The moon was up now, almost full, and its cold radiance dimmed the lamps. He heard a dog howling far off. The dogs of Earthsuch as weren't taken along-would be lonely, too.

Well, he thought, the job's over. Tomorrow, or the next duy, the ships come.


E FELT VERY tired, but didn't want to sleep, and willed himself back to alertness. There hadn't been much chance to inspect the ruins, and he felt it would be appropriate to see them by moonlight.
Rising into the air, he ghosted above roofs and trees until he came to the dead city. For a while he hovered in a sky like dark velvet,

2 faint breeze murmured around him, and be beard the remote noise of crickets and the sea. But stillness enveloped it all, there was no real sound.

Sol City, capital of the legendary First Empire, had been enormous. It must have sprawled over forty or fiity thousand square kilometers when it was in its prime, when it was the gay and wicked heart of human civilization and swollen with the lifeblood of the stars. And yet those who built it had been men of taste, they had sought out genius to create for them. The city was not a collection of buildings; it was a balanced whole, radiating from the mighty peaks of the central palace, through colonnades and parks and leaping skyways, out to the templelike villas of the rulers. For all its monstrous size, it had been a fairy sight, a roven lace of polished metal and white, black, red stone, colored plastic, music and light-everywhere light.

Bombarded from space; sacked again and again by the barbarian hordes who swamed maggot-like through the bones of the slain Empire; weathered, shaken by the slow sliding of Earth's crust; pried apart by patient, delicate roots; dug over by hundreds of generations of archeologists, treasure-seekers, the idly curious; made a quarry of metal and stone for the ignorant peasants who finally huddled about it-still its empty walls and blind windows, crumbling arches and toppled pillars held a ghost of beauty and magnificence which was like a half-remembered dream. A dream the whole race had once had.

## And now we're waking up.

Jorun moved silently over the ruins. Trees growing between tumbled blocks dappled them with moonlight and shacion; the marble was very white and fair against darkness. He
hovered by a broken caryatid, marveling at its exquisite leaping litheness; that girl had borne tons of stone like a flower in her hair. Further on, across a street that was a lane of woods, beyond a park that was thick with forest, lay the nearly complete outline of a house. Only its rain-blurred walls stood, but he could trace the separate rooms: here a noble had entertained his friends, robes that were fluid rainbows, jewels dripping fire, swift cynical interplay of wits like sharpened swords rising above music and the clear sweet laughter of dancing-girls; here people whose flesh was now dust had siept and made love and lain side-by-side in darkness to watch the moving pageant of the city; here the slaves had lived and worked and sometimes wept; here the children had played their ageless games under willows, between banks of roses. Oh, it had been a hard and cruel time; it was well gone but it had lived. It had embodied man, all that was noble and splendid and evil and merely wistful in the race, and now its late children had forgotten.

A cat sprang up on one of the walls and flowed noiselessly along it, hunting. Jorun shook himself and flew toward the center of the city, the imperial palace. An owl hooted somewhere, and a bat fluttered out of his way like a small damned soul blackened by hellfire. He didn't raise a mind-screen, but let the air blow around him, the air of Earth.

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THE PALACE was almost completely wrecked, mountain of heaped rocks, bare bones of "eternal" metal gnawed thin by steady ages of wind and rain and frost, but once it must have been gigantic. Men rarely built that big nowadays, they didn't need to; and the whole human spirit had changed, become ever more abstract, finding its treasures within itself. But there had been an elemental
magnificence about early man and the works he raised to challenge the sky.

One tower still stood-a gutted shell, white under the stars, rising in a filigree of columns and arches which seemed impossibly airy, as if it were built of moonlight. Jorun settled on its broken upper balcony, dizzily high above the black-and-white fantasy of the ruins. A hawk flew shrieking from its nest, then there was silence.

No-wait-another yell, ringing down the star ways, a dark streak across the moon's face. "Hai-ah!" Jorun recognized the joyful shout of young Cluthe, rushing through heaven like a demon on a broomstick, and scowled in annoyance. He didn't want to be bothered now.

Well, they had as much right here as he. He repressed the emotion, and even managed a smile. After all, he would have liked to feel gay and reckleas at times, but he had never been able to. Jorun was little older than Cluthe-a few centuries at most-but he came of a melancholy folk; he had been born old.

Another form pursued the first. As they neared, Jorun recognized Taliuvenna's supple outline. Those two had been teamed up for one of the African districts, but-

They sensed him and came wildly out of the sky to perch on the balcoiny railing and swing their legs above the heights. "IHow're you?" asked Cluthe. His lean face laughed in the moonlight. "Whoo-co, what a flight!"
"I'm all rigit," said Jorm. "You through in your sector?"
"Ch-huh. So we thought we'd just duck: over and look in here. Last chance anyone'll ever have to do some sight-seeing on Earth."

Taliuvennas full lips drooped a bit as she looked over the ruins. She came from Yunith, one of the few planets where they still kept cities, and was as much a child of their soaring arrogance as Jorun of his hills and tundras and
great empty seas. "I thought it would be bigger," she said.
"Well, they were building this fifty or sisty thousand years ago," said Cluthe. "Can't expect too much."
"There is good art left here," said Jorun. "Pieces which for one reason or another weren't carried off. But you have to look around for it."
"I've seen a lot of it already, in museums," said Taliuvenna. "Not bad."
"C'mon, Tally," cried Cluthe. He touched her shoulder and sprang into the air. "Tag! You're it!"

She screamed with laughter and shot off after him. They rushed across the wilderness, weaving in and out of empty windows and broken colonnades, and their shouts woke a clamor of echoes.

Jorun sighed. I'd better go to bed, he thought. It's late.

THE SPACESHIP was a steely pillar against a low gray sky. Now and then a fine rain would drizzle down, blurring it from sight; then that would end, and the ship's flanks would glisten as if they were polished. Clouds scudded overhead like flying smoke, and the wind was loud in the trees.

The line of Terrans moving slowly into the vessel seemed to go on forever. A couple of the ship's crew flew above them, throwing out a shield against the rain. They shuffled without much tak or expression, pushing carts filled with their little possessions. Jorun stood to one side, watching them go by: one face after another-scored and darkened by the sun of Earth, the winds of Earth, hands still grimy with the soil of Earth.

We!!, he thought, therc they go. They aren't beins as emotional about it as I thought: they would. I zunder if they really do care.

Julith went past with her parents. She saw him and dasted from tha line and curtised beiore hin.
"Goodbye, good sir," she said. Lookling up, she showed him a small and serious face. "Will I ever see you again?"
"Well," he lied, "I might look in on you sometime."
"Please do! In a few years, maybe, when you can."

It takes many generations to raise a people like this to our standard. In a jeiv years-io me-she'll be in her giaze.
"I'm sure you'll be very happy," he said.

She gulped. "Yes," she said, so low he could barely hear her. "Yes. I know I will." She turned and ran back to her mother. The rainurops glistened in her hair.

Zarck came up behind Jorun. "I made a last-minute sweep of the whole arca," he said. "Detected no sign of human life. So it's all taken care of, except your old man."
"Goud," said Jorun tonelessly.
"I wish you could do something alout him."
"So do I."
Zarek strolled off again.
A joung man and woman, waking hand in hand, turned out of the line not iar away and stood for a little while. A spaceman roomed over to them. "Better get back," he warned. "Youll get rainct on."
"That's what we wanted," said the young man.

The spaceman shruged and resumied his hovering. Iresently the couple re-entered the line.

The tail of the procession went by Jorun and the ship swallowed it fast. The rain iell harder, beuncing off his force-sheld like silver spears. Lightning winked in the west, and he heard the ditand exaberance of thuncrer.

Fomt came walking slowly toward上:-.. Rain streamed off his clothes wou mated his long gray hair and brard. His rioden shoes made a wet s.exe in the nud. Jorun cxtended the itecesed to cuver him. "I hope
you've changed your mind," said the Fulkhisian.
"No, I haven't," said Kormt. "I just stayed away till everybody was aboard. Don't like goodbyes."
"You don't know what you're doing," said Jorun for the-thousaindth? -time. "It's plain madness to stay here alone."
"I told you I don't like goodbyes," said Kormt harshly.
"I have to go advise the captain of the ship," said Jorun. "You have maybe half an hour before she lifts. Nobody will laugh at you for changing your mind."
"I won't." Kornt smiled without varmth. "You people are the future, I guess. Why can't you leave the past alone? I'm the past." He looked toward the far hills, hidden by the noisy rain. "I like it here, Galactic. That should be enough for you."
"Well, then-" Jorun held out his hand in the archaic gesture of Earth. "Goodbye."
"Goodbye." Kormt took the hand with a brief, indifferent clasp. Then he turned and walked off toward the village. Jorm watched him till he was out of sight.

The technician paused in the airlock door, looking over the gray landscape and the village from whose chimneys no smoke rose. Farewell, my mother, he thought. And then, surprising himeeli: Maybe Formt is coing the right thing after ali.

He catered the ship and the door closed behind him.

TOWARD evening, the clouds lithed and the sky showed a clear pale blue-as if it had been washed clean-and the grass and leaves glistened. Kormt came out of the house to watch the sunset. It was a good one, all flame and gold. A pity little Julith wasn't here to see it; she'd always liked sunsets. But Julith was so far away now that if she sent a call to him,
calling with the speed of light, it would not come before he was dead.

Nothing would come to him. Not ever again.

He tamped his pipe with a horny thumb and lit it and drew a deep cloud into his lung.s. Hands in pockets. he strolled down the wet streets. The sound of his clogs was unexpectedly loud.

W'?l, som, he thought, now you'ze got a whole world all to yourseli, to do zeith just as you like. You're the rich. est man who euer lived.

There was no problem in keeping alive. Finough food of all kinds was stored in the town's freeze-vault to support a hundred men for the ten or twenty years remaining to him. But he'd want to stay busy. He could maybe keetp three farms from going to seed-watch over fields and orchards and livestock, repair the buildings, dust and wash and light up in the erening. A man ought to keep busy.

He came to the end of the street, where it turned into a graveled road winding up toward a high hill, and followed that. Dusk was creeping over the fields, the sea was a metal streak very far away and a few early stars blinked forth. A wind was springing up, a soit murnurous wind that talked in the trees. But how quiet things wre:'

On top of the hill stood the chapel. a small steapled building of ancient stone. He let himself in the gate and walked around to the graveyard behind. There were many of the demure white tombstones-thousands of years oi Solis Tounship men and women who had lived and worked and begotten. laughed and wept and died. Somenne had put a weath on one grase on!y this morning: it brushed against his lig as he went by. Tomorrow it would be withered. and weeds would start to rom: Hed have to tend the chapel y.ntl. tod On'y fitting.

He found his famity plot and stood with ieet spread apart, fists on hips, smoving and looking down at the markers Gerlaug Kormt's son. Taria Huwan's daugiter, these hundred years had they lain in the earth. Hells, Dad. hello. Mother. His fingers reached out and stroked the headstone of his wiie. And so many oi his children were here too; sometimes he found it hard to believe that tall Gerlaug aind laughing Stamm and shy, gentle Huwan bere gone. He'd outlived too many people.

I had to stay, he thought. This is my land, I ain of it and I contdn't go. Someone had to stuy and kece the land, if only for a little wisilic. I can give it ten mare years before the forest comes and tahes it.

Darkness grew around him. The woods beyond the hill loomed like a wall. Once he started violently, he thought he heard a child crying. No, onl; a bird. He cursed himself for the senseless pounding of his heart.

Gloomy place here, he thought. Beiter get back to the house.

He groped slowly out of the yard, toward the road. The stars were out now. Kormt looked up and thought he had never seen them so bright. Tos bright; he didn't like it.

Go avedy, stars, he thought. Foss took my people, but l'm siaving here. This is my land. He reached down to touch it, but the grass was cold and wet under his paim.

The gravel scrunched loudly as he walked, and the wind mumbled in the hedges, but there was no other sound. Not a roice called: not an engine tuaned: not a dog barked. No, he hadn't thought it would be so quiet.

And dark. So lights. Have to tend the street lamps himself-it was no fom, not being able to see the town from here, not being able to see anything except the stars. Should have remembered to bring a flashlighit, but he was odd and absentmiaded, and
there was no one to remind him. When he died, there would be no one to hold his hands; no one to close his eyes and lay him in the earth-and the forests would grow in over the land and wild beasts would nuzzle his bones.

But I knew that. What of it? I'm tough enough to take it.

The stars flashed and flashed above him. Looking up, against his own will, Kornt saw how bright they were, how bright and quiet. And how very far away! He was secing light that had left its home before he was born.

He stopped, sucking in his-breath between his teeth. "No," he whispered.

This was his land. This was Earth, the home of man; it was his and he was its. This was the lund, and not a single dust-mote, crazily reeling and spinning through an endlessness of datk and silence, cold and immensity. Earth could not be so alone!

The last man alive. The last man in all the world!

He screamed, then, and began to run. His feet clattered loud on the road; the small sound was quickly swallowed by silence, and he covered his face against the relentle:s blaze of the stars. But there was no place to run to, no place at all.

# Readin'mod Uruthin' 

THE SPACE MERCHANTS by Frederick Pohl and C. M. Kombut Ballantine, 175 pp paperbound 35 j 192 jp hardbound $\$ 1.50$

When this came out in Gulary as "Grasy Planet", it seemed to be merely an entertaining hont-and-clase thrillei, with the backroond of adretising horrors for laughs, : satire on the way things are now. Since then l've taken a closer look at the gruesomeness of the adreating we have grown numb to and it begins to look moie like a trend than a joke.

If advertising is used to sell cipa:ettes, clewing gum, labor unions, epinions of te NAM, candidates for election, and mories, why shouldn't it male the smart deady move of selling itself? Self-preservation is the business law that wonk every time.

Could the American public be sold on the idea that advertising men a e the aistocracy of the Earth? Could they belicere that advertising is the foundation of American businesss. Could they be continced that the first duty of a patriot and a man of principle is to buy things the advertisments tell him to buy, whether he wants them or not?

If people can be muddled by pictures of girls in bathing suits into buying something that they would not want if they woe leit nlone- (And they can bot why shouldn't they be muddled into buying a!? ${ }^{-}$ thing.
"GLORIA GLANOURPUSS SMOERS BIANESS. "TiLey'ie milder!" GI.mia GLAMOURPUSS briNR Hmb simayti: GIORIA GLAMOUSIUES

READS NOTHING BUT ADVERTISEMENTS. "They're caciting ${ }^{\prime \prime}$
$O_{r}$ the sententious voice announcing. "Doctors Say-Drinit mutrucola!" "Econnmists say-Don't save moncy, Buy things!" "Investigating Senator Blank says-Read Adiertisements. Thej'ze American!"'

Is there a dividing-line beyond which people will stop beliering anything presented by advertising methods, or isn't there? Aind, if so, where is it?

Two businessmen I have spoken with since I read "Gravy Planet", in Galary have told me soleminly. "American Business la Founded On Advertising." Strange ideas line that don't come by spontaneous s.me.ation-at least, I don't think they do.

The nuisance-value ad is a recegnized devier on the radio. Ad agencies don't seem in care what thes do to you if they can only get you to buy sonething tiereby. Fion ass whel initate by loud squawhing roices, witheh rely on gou not to be nuick erough to turn off the radio before jou hee! the pitch, to 3D ads which squirt a foul stencil at you and bellow "Do You Smel Like This." is a short stem. And fron a here-andinow captive audience on a bus, unable to turn off the bus radio which pumps advertisements at them, to a law that it is a seditious unAmerican Rest:aint of Adre:tising to hold your nese when the deoderant ads equirt the sweatsunell at you, or to tun off your radio at all, might not be such a funny exaggeration as it seems at first glance.
[intm To Ároc 30]

He had but one ambition, one deaine: to pilot the firat manned rocket to the moon. And he was prepared as no man had ever prepared himsell before...

"Desire no more ifaiz to tidy lot may joll. . ."
-Chaucer

THE SMALL young man holked at his father, and shook. his bead.
"But you've got to learn a trade," Lis father said, exayprated. "I can't
afiurd to send you to college; you know that."
"I've got a trade," he answered.
His father smiled thinly. "What?" he asked patronizingly.
"I'm a rocket pilot," the boy said, his thin jaw stretching the shin of his cheeks.

His father laughed in the way the
boy had learned to anticipate and hate. "Yeah." he said. He leaned back in his chair and laughed so hard that the Sunday paper slipped oil his wide lap and fell to the floor with an unnoticed stifi rustle.
". I rocket pilot!" His father's derision hooted through the quiet parlor. ". 1 ro-oh, no!-a rocket pilot!"

The boy stared silently at the convulsed figure in the chair. His lips fell into a set white bar, and the corners of his jaws bulged with the tension in their muscles. Suddenly, he turned on his heel and stalked out of the parlor, through the hall, out the front door, to the porch. He stopped there, hesitating a little.
"Marty!" His father's shout followed him out of the parlor. It seemed to act like a hand between the shoulder-blates, because the boy almost ran as he got down the porch stairs.
"What is it, Howard?" Marty's mother asked in a worried voice as she came in from the kitchen, her dam; hands rubbing themselves dry against the sides of her housedress.
"Crazy kid," Howard Isherwood muttered. He stared at the figure of his son as the boy reached the end of the walk and turned off into the street. "Come back here!" he shouted. "A rocket pilot," he cursed under his breath. "What's the kid been reading? Claiming he's a rocket pilot!"

Margaret Isherwood's brow furrowed into a faint, bewildered frown. "But-isn't he a litile young? I know theyre teaching some very odd things in high schools these days, but it seems to me..."
"Oh, ior Pete"s sake, Marge, there area't even any rockets yet! Come luck here, you idiot!" Howard Isherwiod was standing on his porch, his clenched fists trembling at the ends of his stifily-held arms.
"Are you sure, Howard?" his wife asied fante.
"J es, Im s! re."
"But, where's he going?"
"Sitop tiat! Gicu of! thut bus! YOU hear me? Darts?'
"Howare!! siop acting like a child and talk to me'. Where is that boy going:"

Howard Isherwood, stocky, redfaced, horiy-s心en, ans desicate, turied away from the retreating bus and loosed at his wiie. "1 don't know," he toid her bitteriy, bet ween rushes of air into his jerkily neaving nugs. "May ve, the moon," he told her sarcasticilly.

Martin Isherwood, rocket pilot, weight 102, height $4^{\prime}, 11^{\prime \prime}$, had come of́ age at seventeen.

THE SMALL man looked at his faculty advisor. "Ao," he said. "I an not interested in working for a degree."
"But-" The faculty advisor unconsciously tapped the point of a yellow pencil against the fresh greeil of his desk blutter, leaving a rough arc of black flecks. "Look, lish, you've got to either deliver or get off the basket. This program is just like the others you've followed for nine semesters; nothing but math and engineering. You'se taken just about every undergrad course there is in those fields. How long ate juil going to keep this up?"
"I'm signed up for Astronomy 101," Isherwood pointed out.

The faculty advisor snorted. "A snap course. A breather, after you've studied the same stuff in Celestial Navigation. What's the matter, Ish? Scared of liberal arts?"

Isherwood shook his head. "Uh-unh. Not interested. No time. And that Astronomy course inn't a breather. Different slant from Cee Nav-they won't be talking about stars as check points, but as things in themselves." Something seemed to flicker across his face as he said it.

The advisor missed it: he was tos engroosed in his argument. "Still a

2nap. What's the difference, how you look at a star?"

Isherwood almost winced. "Call it a bobby," he said. He looked down at his watch. "Come on, Dave. You're not going to convince me. You haven't convinced me any of the other times, either, so you might as well give up, don't you think? I've got a half hour before I go on the job. Let's go get some beer."

The advisor, not much older than Isherwood, shrugged, defeated. "Crazy," he muttered. But it was a hot day, and he was as thirsty as the next man.

The bar was air conditioned. The advisor shivered, half grinned, and softly quoted:
> "Though I go bare, take je no care,
> I am nothing a-cold;
> I stuff my skin so full within
> Of jolly good ale and old."

"Huh?" Ish was wearing the look with which he always reacted to the unfamiliar.

The advisor lifted two fingers to the bartender and shrugged. "It's a poem; about four hundred years old, as a matter of fact."
"Oh."
"Don't you give a damn?" the advisor asked, with some peevishness.

Ish laughed shortly, without embarrassment. "Sorry, Dave, but no. It's not my racket."

The advisor cramped his hand a little too tightly around his glass. "Strictly a specialist, huh?"

Ish nodded. "Call it that."
"But what, for Pete's sal:e? What is this crazy specialty that blinds you to all the fine things that' man has done?"

Ish took a swallow of his beer. "Well, now, if I was a poet, I'd say it was the finest thing that man has ever done."

The advisor's lips twisted in deri-
sion. "That's pretty fanatical, isn't it?"
"Uh-huh." Ish waved to the bartender for refills.

TTHE NAVION took a boiling thermal under its right wing and bucked upward suddenly, tilting at the same time, so that the pretty brunette girl in the other half of the side-byside was thrown against him. Ish laughed, a sound that came out of his throat as turbulently as that sudden gust of heated air had shot up out of the Everglades, and corrected with a tilt of the wheel.
"Relax, Nan." he said, his words colored by the lingering laughter. "It's only air; nasty old air."

The girl patted her short hair back into place. "I wish you wouldn't fly this low," she said, half-frightened.
"Low? Call this low?" Ish teased. "Here. Let's drop it a little, and you'll rcally get an idea of how fast we're going." He nudged the wheel forward, and the Navion dipped its nose in a shallow dive, flattening out thirty feet above the mangrove. The swamp howled with the chug of the dancing pistons and the claw of the propeller at the protesting air, and, from the cockpit, the Everglades resolved into a dirty-green blur that rocketed backward into the slipstream.

## "Marty!"

Ish chuckled again. He cou!dn't have held the ship down much longer, anyway. He tugged back on the wheel suddenly, targeting a cumulous bank with his spinner. His lips peeled back from his tecth, and his jaw set. The Navion went up at the clouds, her engine turning over as fast as it could, her wings cushioned on the rising thrust of another thermal.

And, suddenly, it was as if there were no girl beside him, to be teased, and no air to rock the wings-there were no wings. His face lost all expression. Faint beads of sweat broke out above his eyes and under his nose.
"Up," he grunted through his clenched teeth. His fists locked on the wheel. "Up!"

The Vavion broke through the cloud, kept going. "Le." If he listened closely, in just the right way, he could almost hear...
"Marty!"
...the rumble of a louder, prouder engine than the Earth had ever known. He sighed, the breath whispering through his parting teeth, and the aircraft leveled off as he pushed at the wheel with suddenly lax hands. Still half-lost, he turned and looked at the white-faced girl. "Scare you?" he asked gently.

She nodded. Her fingertips were trembling on his forearm.
"Me too," he said. "Lost my head. Sorry."

"LOOK," HE told the girl, "You got any idea of what it costs to maintain a racing-plane? Fverything I own is tied up in the Foe, my ground crew, my trailer, and that scrummy old Ryan that should have been salvaged ten jears ago. I can't get married. Suppose I crack the foo next week? You're dead broke, a widlow, and with a funeral to pay for. The only smart thing to do is wait a while."

Nan's eyes clouded, and her lips trembled. "That's what I've been trying to say. Why do you have to win the Vandenberg Cup next week? Why can't you sell the Foo and go into some kind of business? You're a trained pilot:"

He had been standing in front of her with his body unconsciously tense from the strain of trying to make her understand. Now he relaxed-morehe slumped-and something began to die in his face, and the first faint lines crept in to show that after it had died. it would not return to life, but would fossilize, leaving his features in the almost unreadable mask that the newspapers would come to know.
"I'm a goud bit more than a trained
pilot," he said quietly. "The Foo is a means to an end. After I win the Van. denberg Cup, I can walk into any plant in the States-Douglas, North American, Bocing-any of them-and pick up the Chief Test Pilot's job for the asking. A few of them have as good as said so. After that-" His voice had regained some of its former animation from this new source. Now he broke off, and shrugged. "I've told you all this before."

The girl reached up, as if the physical touch could bring him back to her, and put her fingers around his wrist. "Darling!" she said. "if it's that rocket pilot business again..."

Somehow, his wrist was out of her encircling fingers. "It's always 'that rocket pilot business,'" he said, mimicking her voice. "Damn it, I'm the only trained rocket pilot in the world! I weigh a hundred and fifteen pounds, I'm fise fect tall, and I know more navigation and math than anybody the Air Force or Navy have. I can use words like brennscilus and mass-ratio without running over to a copy of Colliers, and I-" He stopped himself, half-smiled, and shrugged again.
"I guess I was kidding myself. After the Cup, there'll be the test job, and aiter that, there'll be the rockets. You would have had to wait a long time."

All she could think of to say was, "But, Darling, there aren't any mancarrying rockets."
"That's not my fault," he said, and walked away from her.

A week later, he took his strippeddown F-110 across the last line with a scream like that of a hawk that brings its prey safely to its nest.

[^2]zaigs all over his whipcord, red-cyed, Ed buskily quiet as he said his few rods into the network microphones. And he was not satisfied. There was =o peace in his eyes, and his hands wored even more sharply in their exgressive gestures as he gave an imfromptu report to the technicians who -ere walking back to the personnel Eemker with him.

Nan could see that. Four years ago, Se tadi been different. Four ycars ago, i: she had only known the right words, he wouldn't be so intent now on throwing himself away to the sky.

She was a woman scomed. She had :o lie to herself. She brol:e out of the peess section and ran orer to him. "Marty!" She brushed past a technician.

He looked at her with faint surprise on his face. "Well, Nan!" he mumbled. But he did not put his hand over her uwa where it touched his shoulder.
"I'm sorry, Marty," she said in a rush. "I didn't understand. I couldn't sec how much it all meant." Her face was flushed, and she spoke as rapidly as she could, not noticing that Ish had aiready gestured away the guards she was afraid would interrupt her.
"But it's all right, now. You got your rockets. You've done it. You trained yourself for it, and now it's over. You've flown your rocket!"

He looked up at her face and shook his head in quiet pity. One of the shocked technicians was trying to pull her away, and Ish made no move to stop him.

Suddenly, he was tired, there was something in him that was trying to break out against his will, and his reaction was that of a child whose candy is being taken away from him after only one bite.
"Rocket!" he shouted into her terrified face. "Rocket! Call that pile of tin a rocket?" He pointed at the weary Mark VII with a trembling arm. "Who cares about the bloody machines! If I thought roller-skating would get me
there, I would have gone to work: in a rink when I was seventeen! It's getting there that counts! Who gives a good goddam how it's done, or what with!"

And he stood there, shaking like a leaf, outraged, while the guards came and got her.
"SIT DOWN, Ish," the Flight Surgeon said.
They alays begia that tody, Isherwood thought. The standard medical opening. Sit down. What for? Did somebody really believe that anything he might hear would make him faint? He smiled with as much expression as he ever did, and chose a comiortable chair, rolling the white cylinder of a cigarette between his fingers. He glanced at his watch. Fourteen hours, thirty-six minutes, and four days to go.
"How's it?" the FS asked.
Ish grinned and shrugged. "All right." But he didn't usually grin. The realization disquieted tim a little.
"Think you'll make it?"
Deliberately, rather than automatically, he fell back into his usual re-sponse-pattern. "Don't know. That's what I'm being paid to find out."
"Uh-huh." The FS tapped the eraser of his pencil against his teeth. "Lookyou want to talk to a man for a while?"
"What man?" It didn't really matter. He had a feeling that anything he said or did now would have a bearing, somehow, on the trip. If they wanted him to do something for them, he was bloody well going to do it.
"Fellow named MacKenzie. Big gun in the head-thumping racket." The Flight Surgeon was trying to be as casual as he could. "Air Force insisted on it, as a matter of fact," be said.' "Can't really blame them. After all, it's their beast."
"Don't want any hole-heads denting it up on them, huh?" Ish lit the cigarette and flipped his lighter shut with
a snap) of the lid. "Sure. Bring him on."

The IS smiled. "Good. He's-uhhe's in the next rou:l. Okay to ask him in right now?"
"Sure." Something flickered in Isherwood's eyes. Amusement at the Flight Surgeon's discomfort was part of it. Worry was some of the rest.

MacKENZIE didn't seen to be taking any notes, or paying any special attention to the answers Ish was giving to his casual questions. But the questions iell into a pattern that was far irom casual, and lsh could see the small button-mike of a portable tape-recorder nestling under the man's lape!.
"Been working jour own way for the last seventeen years, haven't you?" MacKenzie seemed to numble in a perfectly clear voice.

Ish nodded.
"How's that?"
The corners oi Isherwood's mouth twitched, and he said "Yes" for the recorder's benefit.
"Odd jobs, first of all?"
"Something like that. Anything I could get, the first few months. After I was haliway set up, I stuck to garages and repair shops."
"Out at the airports around Miami, mostly, wasn't it?"
"Ahuh."
"Took some of your pay in flying lessons."
"Right."
MacKenzie's face passed no judge-ments-he simply hunched in his chair, seemingly dwarfed by the shoulders of his perfectly tailored suit, his stubby fingers twiddling a Phi Beta Kappa key. He was a spare man-only a step or two away from emaciation. Occasionally, he pusherl a tired strand of washed-out hair away from his forzhead.

Ish answered him truthfully, without more than ordinary reservations. This was the man who could greund
him. He was dangerous-red-letter dangerous-because of it.
"No family."
Ish shrugged. "Not that I know of. Cut out at seventeen. Dy father was making good money. Ile had a pension plan, insurance policies. No need to worry about them."

Ish knew the normal reaction a statement like that shouid have brought. MacKenzie's face did not go into a blank of repression-but it still passed no judgements.
"How's things between you and the opposite sex?"
". About normal."
"No wite-ns sicady girl."
"Not a very good idea, in my racket."

AlacKenzie grunted. Suddenly, he sat bolt tepright in his chair, and swlung toward Ish. His lean arm shot out, and his index finger was aimed between Isherwood's ejes. "You can't gol"

Ish was oil his feet, his fists clenched, the blood throbbing in his temple veins. "What!" he roared.

Mackenzie seemed to collapse in his chair. The brief commanding burst was over, and his face was apologetic. "Sorry," he said. He seemed genuinely abashed. "Shotgun therapy. Works best, sometimes. You can go, all right; I just wanted to get a fast check on your reactions and drives."

Isla could feel the anger that still ran through him-anger, and nore fear than he wanted to adnit. "I'm due at a briefing," he said tautly. "You through with me?"

MacKenzie nodded, still embarrassed. "Sorry."

Jsh ignored the man's obvious feeling. He stopped at the door to send a parting stroke at the thing that had frightened him. "Big gun in the psychiatry racket, huh? Well, your professional lingo's slipping, Doc. They did put some learning in my head at college, you know. Therapy, helll Testing maybe, but you sure dida't do auylhing to help mel"
"I don't know," MacKenzie said softly. "I wish I did."
Ish slammed the door behind him. He stood in the corridor, janming a fresh cigarette in his mouth. He threw a glance at his watch. Twelve hours, twenty-two minutes, and four days to go.

Dann! He was late for the briefing. Odd-that fool psychiatrist hadn't seemed to take up that much of his time.

He shrugged. What difference did it make? As he strode down the hall, he lost his momentary puzzlement under the flood of realization that nothing could stop him now, that the last hurdle was beaten. He was going. He was going, and if there were faint echoes of "Marty!" ringing in the dark background of his mind, they only served to push him faster, as they always had. Nothing but death could stop him now.

ISH LOOKED up bitterly at the Receptionist. "No." he said.
"But eierybody fills out an application," she protested.
"vo. I've got a job," he said as he had been saying for the last half hour.

The Receptionist sighed. "If you'll only read the literature I've given you, you'll understand that all your previous commitments have been cancelled."
"Look, Honey, I've scen company poop sheets before $\therefore$ ow, Wet's chit this nonsense. I've got to get back.:"
"But nobody gaes back."
"Goddan if, I don't know what Find of place this is. but-" He stopped at the Receptionist's wince, and looked around, his mouth open. The reception desk was solid enough. There were IN and OUT and HOLD baskets oin the desk, and the Recepptionist seemed to sce nothing extraordinary about it. But the room-a big room, he realized-seemed to fade out at the edges, rather than stop at walls. The ligiting, too...
"Let's see your back!" be rapped out, his voice high.

She sighed in exasperation. "If you'd read the literature..." She swiveled her chair slowly.

## "No wings," he said.

"Of course not!" she snapped. She brushed her hair away from her forehead without his telling her to. "No horns, either."
"Streamlined, huh?" he said bitterly.
"It's a little different for everybody," she said with unexpected gentleness. "It would have to be, wouldn't it?"
"Yeah, I guess so," he admitted slowly. Then he lost his momentary awe, and his posture grew tense again. He glanced down at his mrist. Six hours, forty-seven minutes, and no days to go.
"Who do I see?"
She stared at him, bewildered at the sudden change in his voice. "Sec?"
"About getting out of here! Come on, come on," he barked, snapping his fingers impatiently. "I haven't got much time."

She smiled sreetly. "Oh, but you do."
"Can it! Who's your Section boss? Get him down here. On the double. Corre on!" His face was streaming with perspiration, but his voice was firm with the purpose that drove him.

Her lips closed into an angry line, and she jabbed a finger at a desk button. "I'll call the Personnel Manager."
"Thanks," he said sarcastically, and waited impatiently. Odd, the way the Receptionist looked a little like Nan.

THE PERSONNEL Manager wore a perfectly-tailored suit. He strode across the lobby floor toward Isl. his hand outstretched.
"Martin Isherwood!" he exclaimed eathusiastically. "I'sin ecry glad to meet you!"
"I'li bet," Ish said dryly, giving the

Personnel Manager's hand a short shake. "I've got other ideas. I want out."
"That's all he's been saying for the past forty-five minutes, Sir," the Receptionist said from behind her desk.

The Personnel Manager frowned. "Um. Yes. Well, that's not unprecedented.
"But hardly usual," he added.
Ish found himself liking the man. He had a job to do, and after the preliminary formality of the greeting had been passed, he was ready to buckle down to it. Oh, he-shucks? - the Receptionist wasn't such a bad girl, either. He smiled at her. "Sorry I lost my head," he said.

She smiled back. "It happens."
He took time to give her one more smile and a half-wink, and swung back to the Personnel Manager.
"Now. Let's get this thing straightened out. I've got-" He stopped to look at his watch. "Six hours and a few minutes. They're fueling the beast right now."
"Do you know how much red tape you'd have to cut?"

Ish shook his head. "I don't want to sound nasty, but that's your problem."

The Personnel Manager hesitated. "Look-you feel you've got a job unfinished. Or, anyway, that's the way you'd put it. But, let's face it-that's not really what's galling you. It's not really the job, is it? It's just that you think you've been cheated out of what you devoted your life to."

Ish could feel his jaw muscles bunching. "Don't put words in my mouth!" he snapped. "Just get me back, and we'll split hairs about it when I get around this way again." Suddenly, he found himself pleading. "All I need is a week," he said. "It'll be a rough week-no picnic, no pleasures of the flesh. No smoking, no liquor. I certainly won't be breaking any laws. One week. Get there, putter around for two days, and back again. Then, you
can do anything you want to-as long as it doesn't look like the trip's resporsible, of course."

The Personnel Manager hesitated. "Suppose-" he began, but Ish interrupted him.
"Look, they need it, down there. They've got to have a target, someplace to go. We're built for it. People have to have-but what am I telling you for. If you don't know, who does?"

The Personnel Manager smiled. "I was about to say something."

Ish stopped, abashed. "Sorry."
He waved the apology away with a short movement of his hand. "You've got to understand that what you've been saying isn't a valid claim. If it were, human history would be very different, wouldn't it?
"Suppose I showed you something, first? Then, you could decide whether you want to stay, after all."
"How long's it going to take?" Ish flushed under the memory of having actually begged for something.
"Not long," the Personnel Manager said. He half-turned and pointed up at the Earth, hanging just beyond the wall of the crater in which they were suddenly standing.
"Earth," the Personnel Manager said.

Somehow, Ish was not astonished. He looked up at the Earth, touched by cloud and sunlight, marked with ocean and continent, crowned with ice. The unblinking stars filled the night.

He looked -around him. The Moon was silent-quiet, patient, waiting. Somewhere, a metal glint against the planet above, if it were only large enough to be seer. was the Station, and the ship for which the Moon had waited.

Ish walked a short distance. He was leaving no tracks in the pumice the ages had sown. But it was the way he had thought of it, nevertheless. It was the way the image had slowly built up in his mind, through the years, through the training, through the
work. It was what he had aimed the Navion at, that day over the Everglades.
"It's not the same," he said.
The Personnel Manager sighed.
"Don't you see," Ish said, "It can't be the same. I didn't push the beast up here. There wasn't any feel to it. There wasn't any sound of rockets."

The Personnel Manager sighed again. "There wouldn't be, you know. Taking off from the Station, landing here-vacuum."

Ish shook his head. "There'd still be a sound. Maybe not for anybody else to hear-and, maybe, maybe there zoolld be. There'd be people, back on Earth, who'd hear it."
"All right," the Personnel Manager said. His face was grave, but his eyes were shining a little.

"ISH! HEY, Ish, wake up, will you!" There was a hand on his shoulder. "Will you get a load of this guy!" the voice said to someone else. "An hour to go, and he's sleeping like the dead."

Ish willed his eyes to open. He felt his heart begin to move again, felt the blood sluggishly beginning to surge into his veins. His hands and feet were very cold.
"Come on, Ish," the Crew Chief said.
"All right," he mumbled. "Okay. I'm up." He sat on the edge of his bunk, looking down at his hands. They were blue under the fingernails. He sighed, feeling the air moving down into his lungs.

Stiffly, he got to his feet and began to climb into his $G$ suit.

The Moon opened its face to him. From where he lay, strapped into the control seat in the forward bubble, he looked at it emotionlessly, and began to brake for a landing.

He looked for footprints in the cra-
ter, though he knew he hadn't left any. Earth was a fanuiliar sight over his right shoulder.

He brought the twin-bubble beast back to the station. They threw spotlights on it, for the TV pickups, and thrust microphones at him. He could see broad grins behind the faceplates of the suits the docking crew wore, and they were pounding his back. The interior of the Station was a babbling of voices, a tumult of congratulations. He looked at it all, dead-faced, his eyes empty.
"It was easy," he said over a worldwide network, and pushed the press representatives out of his way.

MacKENZIE was waiting for him in the crew section. Ish flicked his stolid eyes at him, shrugged, and stripped out of his clothes. He pulled a coverall out of a locker and climbed into it, then went over to his bunk and lay down on his side, facing the bulkhead.
"Ish."
It was MacKenzie, bending over him.

Ish grunted.
"It wasn't any good, was it? You'd done it all beiore; you'd been there."

He was past emotions. "Yeah?"
"W'c couldn't take the chance." MacKenzie was trying desperately to explain. "You were the best there wasbut you'd done something to yourself by becoming the best. You shut yourself off from your family. You had no close friends, no women. You had no other interests. You were a rocket pi-lot-nothing else. You've never read an adult book that wasn't a text; you've never listened to a symphony except by accident. You don't know Rembrandt from Norman Rockwell. Nothing. No ties, no props, nothing to sustain you if something went wrong. We couldn't take the chance, Ish?"
"So?"
"There was too much at stake. If we let you go, you might have for-
gotten to come back. You might have just kept going."

He remembered the time with the Navion, and nodded. "I might have."
"I hypnotized you," MacKenzie said. "You were never dead. I don't know what the details of your hullucination were, but the important part came through, all right. You thought you'd been to the Moon before. It took all the adventure out of the actual flight; it was just a workaday trip."
"I said it was easy," Ish said.
"There was no other way to do it! I had to cancel out the thrill that comes from challenging the unknown. You knew what death was like, and
you knew what the Moon was like. Can you understand why I had to do it?"
"Y"eal. Now get out bcfore I kill you."

He didn't live too long after that. He never entered a rocket again-he died on the Station, and was buried in space, while a grateful world mourned him. I wonder what it was like, in his mind, when he really died. But he spest the days he had, after the trip, just sitting at an observatory port, cursing the traitor stars with his dead and purposeless eyes.

## READIN' and WRITHIN'

(continuced from
page 26)

In its revised form, "The Space Merchans", this novel is even smoother and more entertaining in plot, but I have not been able to read more than a fow pages at a time before the hackground gives me the whillics.

Wial the Senator from Nutra-Cola please tale the floor?

WCRLD OUT OF MIND by J. T. M'Intosh 222 pp Doubleday 82.75.
1 like the poler-gane plot, with life or death hanging on whether the hero makes the right sequence of logical moves, and this book has enough of that.

The background is a pleasant world set-up-utopia compared to what we have now-with evcrything mild and moderate and pleasant and normal, except the one gaudily-difierent element of an aristocracy of abilitics. It's put right out in the open, with a fascinating universal I. Q. puzzletest. and badges of different color in the spectrum sale for those that test out on different $1 Q$ ranges. There is a democratic flavo: to it, because the difference of jobtreatment and respect siven people wearing each color is largely a result of the experience of the population as to how people with such badges behave, rather than fixed law.

An attractive-sounding system for s. f. fans, whom I would naturally expcet to get a better break in that kind of system and strut happily in red circle badges, or better.
The plot is the good old chestnut of the guy who can't remember, but finds himself in some hind of a deadly game as an
important piece; he has to apply his highpowered brains to finding out what kind of game it is and what side he wants to play on.

For a good puzzle-story, this puts the reader on par with the hero and they are equally surprised by whatever happens, and can solve the problems with the same evidence. Fair play.

The hero is a likeable character, rather human and pleasant, as are the other characters, although they are only lightly presented. He gets a little superdooper toward the end, but this is a small complaint for a smooth and entertaining book.

The jacket desispn is a dull lawker mishmash with no connection to the plot that I could figure out, but don't let the dullness of the gutside detur you. In its reasonable English way, this is escentially a gaudy story, witten to please.

HFLIFLOWER, by Georce O. Smith, Doubleday, 2(6) 10 :2.50
A busted and disgraced spaceman is used as a docoy-duck to catch interplanitary drug-smutgers, tryins to pull himself up by his bootstraps back to self respect and the respect of the world. Theres considerable romameirg. and occasional shooting. It's not always plausible toward the end, but keeps the pace oning, and the suspense to tight for any leisure to pause and criticize. The solution seemed to me: moie of a rescue of the characters by George 0. Smith thail anything they
[ 1 wn lo louse is]


Here is the second in a series of articles, which add up to one of the most significant essays written about science-fiction - published by your request.

# THE PLOT-FORMS OF SCIENCE FICTION 

## A Special Survey James Gunn

b. A distant world, space, or dimension in the present


F THE PLOT. FORM of a modern man in the past is basieally an adventure theme, that of a modern man in a distant world, space, or dimension in the present is even more so. In the former, the protagonist's surroundings are part of our earth, part of our heritage; but in the latter, the environment is usually completely ali-en-or, when still on earth, is so inaccessible and strange as to be almost divorced from modern experience. The form, consequently, is a perennial favorite of both writers and readers, since it is both easy to write and straight, uninvolved, suspenseful read-
ing. The problems set by the plot usually involve physical difficulties and opposition; discovering the real nature of the environment; the old standby, survival; and finding a means of returning honze.

The means of reaching the alien enviroment are so various that a complete sumary is impusible. When the place is on Earth, the protagonist finds it, or is projected into it, occasionally by foot but miore often by machine. Space or another planet are usually reached by space ship. Dimensions are almost always entered by accident-although sometimes ancient, forgotten entrances are rediscovered, or dimensional beings trap humans for purposes of their own. Occasionally the means is mystical or mental in nature, and in that respect approaches fantasy.

The form is so old that its beginnings are lost in prehistoric mists: Lu-
cian's works, mentioned in the preceding section, were of this type; myths often contained elements of it; medieval travel tales were basically plots of this kind; the fictional utopian works-the list is endless. In modern science fiction, one could include almost all of Burroughs' science fiction stories in this classification: the story mentioned earlier, his "Pellucidar" series, ${ }^{1}$ and his novels laid on Mars" and Venus. 3 In the "Pellucidar" boeks, first entry into a hollow world inside the earth is made by boring through the earth's crust in a new-ly-invented machine which emerges fimally into a topsy-turvy world of innumerable strange tribes and beings. Later, 'Tarzan comes to the rescue by flying a ecppelin through a large hole at the North Pole. John Carter finds a similar, if more involved, situation on Mars, where the social progression is highly stratiiied by tribes-each tribe of a dififerent color-and the civilization has degenerated from a previous peak. Carter gets to his adventurous destination by concentrating his thoughts on the red planet.

Many of A. Merritt's novels are of this type. In "The Ship of Ishtar", 4 for instance, a mysterious rapport is established between the hero and an ancient, intricately-carved, miniature ivory ship: the hero falls into a fan-tasy-world of gods, goddesses, priests, priestesses, soldiers, and slaves of a dimensional Egyptian world. In "The Snake Mother" and "The Face in the Abyss" 5 the modern characters, traveling by foot and pack animals, come upon an isolated region in Central America inhabited by a half-snake, half-human woman; ancient gods or powers; intelligent spider-like crea-

1. "At the Earth's Core", Chicago: McClurg, 1922, etc.
2. The Chessmen of Mars", Chicago; McClurg, 1922, etc.
3. "Pirates of Venus", Tarzana, Cal.: Burroughs, Inc., 1934, etc.
4. New York: Putnam, 1926.
5. New York: Liveright, 1933.
tures, and more or less normal humans. Another region is reached by foot, this time in the far North, in "Dwellers in the Mirage"; 1 there the characters meet, in a mist-shrouded valley, peoples and places out of Norse mytholoy. In a final example, Merritt, in "The Moon l'ooi", " introcuced his characterś into a huge hollow world, reached via mysterigus ruins on a strange island in the laciitic. The modern humans find there, among more ordinary persons, a strange, se-ductively-compelling life whose form is a swirling column of light, and an old and wisc frog race.

Two more nodern examples are "The 32nd of May" by Paul Ernst" and "Goldfish Bowi" by Anson MacDonald (pseud. for Robert Heinlein). 4 In the iirst, the protagonist, on the stroke of midnight, stumbles between two mirrors in his host's living room and finds himself in another di-mension-a strange, geometrical place with hexagonal plants and warring beings in the shape of two-dimensional circles and triangles; after many minutes he finds his way back and discoveis that the final stroke of midnight is still ringing. "Goldfish Bowl" describes the efforts of two scientists to solve the mystery of two permanent waterspouts which have sprung up near Hawaii; one of the scientists ascends a spout in a converted bathysphere, and the other is carried away by an electrical ball of fire. They meet in a prison-like room above the pillars of water, never seeing their captors; they finally decide that their captors are superior beings native to earth, that (as Charles Fort suggested) man is the property of some unseen race whose traces we notice in mysterious

1. New York: Liveright, 1931.
2. New York: Putnam, 1919.
3. "The Best of Science Fiction" (hereafter referred to as TBSF), edited by Groff Conklin. New York: Crown, 1946. pp. 532-541.
4. Jbid, pp. 252-2i7
rains, disappearances, etc., but which science ignores. One of the scientists dies and his body is removed; but before the other dies he inscribes a cryptic message on the fore part of his body by continual scratching with his finger nail until scar tissue is formed. The message which, with his body, is found eventually in the ocean: "Be-ware-creation took eight days."

Alone, this plot-type has resulted in nothing particularly important to science fiction or the world at large. It can only ccho, thematically, Shakespeare's "there are more things in heaven and earth, Horatio..." As the carrier for theme or symbolism, however, it has served in the past on occasion and shows promise for the future, but the plot type, even without embellishments, will probably remain a standard expression of science fiction's escapist function.
c. The future

AMODERX man in the future has provided a plot-type not quite so adventurous, although it has been used for that purpose on occasion. The stories of this classification, however, tend more to thoughtful or provocative analyses, to utopias and satires, to speculation about man's goal, possibilities, or destiny: A modern man enters the future with one primary question which both he and the reader demands to be answered: what will life and living conditions be like? C'pon the answer depends the protagonisi's attitude toward the new world: will it satisfy all his desires, and will he be satisfied to settle down and stay? Will there be something wrong which he can struggle to right? Or will the world be so fearfully alien or so irrevocably evil that he wants only to destroy it or escape fromit?

Science fiction's view of the future through the eyes of a modern man has not been, on the whole, particularly cheerful. The utopia, generally, went out of style with Edward Bellamy's
"Looking Backward";1 since H. G. Wells' "The Time Machine"' authors have taken, in such stories, the darker view of the possibilities of man's progressing toward any better life. There are reasons for this, of course, aside from purely philosophical ones. From the author's standpoint, a perfect world is not good story-material-nothing happens; a flawed or completely evil world provides a natural conflict, and is thus much better for his purposes. It is natural that he should choose to represent such a world when he decides to write about the future, since science fiction writers, like almost all writers of the past, are entertainers first and philosophers, if at all, second. And so, even when the world depicted has many attractive points in its favor, there are usually one or two strong drawbacks-most often culminating in the rebellion of the newcomer against the regimentation of a highly-organized society. All this, by the way, does not hold true for stories built around "a future being in a future world." where the characters have other problems than the nature of the society they live in and the viewpoint is quite radicaliy difierent.

The future has been reached fictionally in many ways. In "Looking Backward' the hern was hypnoti.sed. and slept in a vault for over a humdred years: in other works suspended animation has been achieved by drugs, machines, or natural forces. The use of the time machine is, of course, common, and occasionally a story uses a time "fault," natural passageway; or cataciysmic event to slip a character into the future directly.

One of the gloomy vicws is presented by Harry lates in "Alas, All Thinking!’3 Here, a young genius is visited

1. Op. cit.
2. New York: Holt, 1919.
3. "The Other Worlds" (hereafter referred to as TOW'), edited by Pnil Strong. Garden City, NY: Garden City Publishing Co., 194:, 1p. 251-294.
by an overly-intellectual woman from the distant future and is taken forward with her, some three million years, to her own time. In mere boxes of rooms, the hero finds a few old, spider-like, mummified men, immobile and dusty, who, with their huge, supported heads, spend their lives in thought and contemplation and are fed by pellets shot by a mechanism into their mouths. Revolting against such a dusty prospect, the hero ends their lives one by one, thus closing the final chapter of the human race.

A slightly less dismal picture is suggested by Frank Belknap Long's "A Guest in the House, ${ }^{\prime \prime}$ in which a family moves into a new home and accidentally activates time-travelling machinery which a former experimenting tenant had left behind. Out of a gray fog which surrounds the house steps a scrawny gnome who informs the father that they are half a million years in the future and that his race, stemming from atomic-age mutations, is taking over the time-travelling machinery. The gnome's designs upon the past are foiled and the house is returned to its normal time by the nine-year-old son of the family, an atomic-derived prodigy of I. Q. 270.

This fictional form has not, outside of a few interesting exceptions, been particularly important in the history of science fiction or very popular with its authors, and its place will probably continue to be minor. The gap between the present and the future is usually too great to encompass anything significant for modern humanity, and the form lends itself too readily to satire. Science fiction today is essentially an-ti-satirical, anti-utopian: it is realistic, and both tendencies lead in the other direction. In spite of this, an occasional amusing or satirical story of note may be hoped to come from the type.

[^3]
## 2. An ancient being or primitive man in a modern human environment

$T$HE ENTRANCE of an ancient being, or primitive man, into our modern era is a plot-type which has not often been used in modern science fiction and perhaps rightly so. What little the form has to offer is in the nature of comparisons of primitive ways of life and possibly intervening history with our life and times. Even as an adventurous plot it has drawbacks. There is, in the beginning, a difficulty in overcoming the tendency of the reader to identify himself with modern man and thus change it to a story about modern men in the modern world facing problems introduced from the past-since there is often only a subtle difference in emphasis separating the two types, even though the effects are quite distinct.

One such story, however, which is successful-although a large part of its success is due to its surprise-value and the theme it carries rather than any intrinsic quality in the plot itself-is Frederic Brown's "Letter to a Phoenix." which was discussed in the first section of this work. Another effective exaimple, though for a different reason, is "The Gnarly Man" by L. Sprague de Camp. ${ }^{1}$ which tells the story of a Neanderthal man who is discovered in a carnival by anthropologists. The principal attraction of the story is the recounting by the primitive man of his thousands on thousands of years of experience, and the events and societies through which he has lived-enlivened, on the side, by an abortive romance with a frustrated female-researcher among the anthropologists. The gnarly man's longevity was due to the mysterious and accidental effects of a lightning-bolt which struck close to him when he was a young man on a

[^4]much younger Earth, and changed his structure so that he did not age. The Neanderthal man has survived so long because of his habit of effacing himself and moving to another region at regular intervals, beiore his agelessness is exposed; and this is what he does to escape his present predicament.

An interesting variation oi a number of years ago is Thomas Calvert McClary's "Rebirth", 1 in which the primitive characters are not brought from the past but created. In this novel, a scientist decides that drastic measures are in order to sweep away the world's corruption; he invents and puts in operation a machine which obliterates all knowledge from the minds of the world's millions, thus giving mankind a clean slate upon which to write-a rebirth. The situation in which tive characters find themselves is one of perennial fascination in science fiction; the miracies of modern technology available for any who are ingenious enough to make use of them; civilization, with all the luxuries and conveniences it holds and which most of us have a materialistic yearning for from time to time, unowned and waiting. Any number of stories have been built around stich a situation, and one of the primary essences of its appeal is the reader's vicarious delight in the unrestricted enjoyment of material possessions. In "Rebirth," the situation enables MceCary to comment effectively on the valuable arts of existence and the unnecessary excrescences of civilization. The experiment starts poorly, for man-kind-without knowledge of fire. iond, or any of the specialized knowledge necessary for urban lie-reverts to the most primitive savagery. The remainder of the novel discusses man's rapid rise to a more civilized state.

The form has never been seriously explored by modern writers; some of the technical difficulties we have al-
ready noted, and the results are seldom sufficiently rewarding to overshadow them. Like the former type, it is essentially satirical, and it is doubtful now, with the current of realism in science fiction which has been largely responsible for much of its development, that anything significant will ever be done with it.

## 3. An Alien In A Human Environment

THE PLOT-FORM of the alien in a human environment has been used. like that of the preceeding type, chiefly for comparisons, although there have been other, important philosophical applications. Satirists have lurned frequently to the plot ever since its first application in Voltame': "Micromegas" (1752) ${ }^{1}$ in which Micromegas (a native of the star Sirius) as well as a native of the planet Saturn visits earth, which seems a; small as a meteor to them. Moderin science fiction has found the type as useful. As a general rule, the stories are more thoughtful and less advanturous than the preceding types, their interest resting on bases more intellectual and less emotional.

Fundamentally, the alien is a character who is almost complete! igroiant of carth's physical facts, the characteristics of its people, and the nature of its cisilization. He is an outsider, to whon everything is new and by whom nothing is taken for granted, from those truths we accert as axiomatic through our most dee;grained beliefs to the mores of our cui.ture. Lnlike the primitive being, he is an entity with a background of cui-ture-and possibly superior culture at that: at times, he is liable to shortsighted judgments, due to his unfamiliarity with the situation.

In modern writing, the alien almost always reaches Earth by space ship,

1. London: D. Wilson and T. Durham, 1753.
although occasionally writers hark back to Voltaire for such mystical means of transportation as light-pressure or thought-waves. The latest fad, in magazines which like to appear as current as today's newspaper, is the flying saucer.

## a. The past

MODERN authors have not been particularly fond of placing their aliens in the past; there, possibilities of comparison are limited, and satire is not as immediate or as pointed. When such a situation is used, it is usually tied in with human history or mythology to give the story an air of plausibility or a philosophical application. A number of stories, for instance, have tried to explain the presence or evolution of humanity by emigration and later degeneration of an alien race, or by alien experiments with sub-human life-forms (usually in such circumstances as to suggest reasons for the springing up of legends of creation, paradise, heaven, Satan, etc.).

A popular explanation of the mystery of Atlantis as the presence on earth of a pre-historic alien civilization is another example. The explanatory type of story has found places for all other ancient artifacts. ruins, and races as well-from the Minoans to the Egyptians, from the Chinese to the Mayan Indians. Anything the least strange or outlandish which has come down to us in legends or folk tales has been attributed at one time or another to aliens: the pyramidsbuilt by aliens: magic-the misunderstood powers of aliens; mythological figures-the aliens themselves.

Such a concept figures in Oscar J. Friend's "Of Jovian Build," 1 in which part of the action takes place in the past. Ancient Greek warriors find a spaceship from Jupiter and mistake it for a dragon before the Jovian within,

[^5]misunderstanding their intentions, annihilates them. The Jovians, the remainder of whom are in suspended animation, have been reduced in size from their nornal giant stature by a machine which condenses their cellular structure, but the failure of the artificial-gravity machinery has fatally injured the pilot and he cannot revive his companions. Cadmus, founder of Thebes, arrives and courageously clambers into the ship, follows the instructions of the dying pilot in reviving the other Jovians, but then leaves in terror as he finds them increasing in size. The pilot realizes that the atmosphere is poisonous to his race and destroys the ship. Thus we have the explanation of the legend of Cadmus and the sowing of the dragon teeth.

Occasionally a plot of this type finds a place in a larger work. In "Tlise Incredible Planet" by John W. Campbell. Jr., ${ }^{1}$ for instance, is an account similar to that above. Here, a spaceship crashes on earth with its crew of half-horse half-man, centaur-like creatures; the crew, in an effort to repair the ship. impresses the labor of the surrounding, ignorant, scarcely human natives, but the attempts end in failure. One of the members of the party, with a name similar to Chiron, is sympathetic with the natives; over the years of his long lifespan endeavors to teach them the elements of civilization. So we have the legends of the centaurs and Chiron, the tutor.

Fictional explanations of another legend have been so frequent that such a story must be unusually well written to gain acceptance today: the legend-the fall of Adam and Eve in the garden of paradise. A fairly recent example is Eric Frank Russell's "First Person Singular," ${ }^{2}$ which tells the story of two pioneers from the planet Dise, who are set down upon the primeval earth to care for and watch the

1. Providence, R.I.: Hadley Publishing Co., 1949.
2. TW'S. Oct., 1950, pp. 78-103
native plants in a garden which had been carved out of the prolific surrounding jungle and protected by high, strong walls. The purpose is to see whether the flora essential to the welfare of the Disian race can survive on this primitive planet, and whether the Disian pioneers themselves can live here unchanged-prior to a general colonization. There is only one admonition: that the pioneers eat nothing native to this world lest they become changed beyond acceptable limits. Between the six year visits of the ship, however, things did change: some plants died, some lived, all changed, but most of all the preliminary colonists themselves changed: in minute ways, as in the appearance of body hair, and in psychological ways, as in increasing aggressiveness and combativeness. Erentually, because of a natural cataclysn which destroys their garden, they are forced to rely almost entirely upon native food and they change too greatly. The ship offers to return them to Dise for treatment, giving up this world as hopeless at present; the man, Edham, and the woman refuse, and they are abandoned. They leave the destroyed garden they had called Para-Dise, and they take their place in the native earth. They have children:

> all of their own shape but none truly of their kind.
> The first was a murder.
> The serond, his victim.
> The fifth had a yellow stin and tilted eyes.
> Only the tenth had red hair.
> The twelf th was born black.
> But the seed of this breed subdued and nastered the stormy world which sume call Terra. (1)

There is a basic reason why stories of this type have not contributed anything of importance to the development of science fiction and why they are unlikely to do more in the future. The stories partake of the nature of
their material; in explaining myths, legends, folklore, and ruins, they are, in effect, myths themselves, and realistic modern science fiction is at myth's opposite pole. The most pertinent question science fiction asks is not the why of the past but the whither of the present and the future.

## b. The present

THE PRESENT is, as I intimated earlier, science fiction's favorite time for aliens to arrive on earth; there is an immediacy about the situation which translates itself into drama, suspense, and philosophical application. There is enough unexplained phenomena today-from flying saucers to mysterious disappearances-to provide a plausible basis for any number of stories about aliens in our society or even in our neighborhood; science fiction authors no longer fecl the necessity of placing their aliens in secluded or poorly-populated sections of the globe, although it is still done occasionally. Obvious satire is seldom present in modern versions of this plot type; satire, to repeat an observation made several times before, is not compatible with realism. Philosophical observations, when present, stem directly from the plot, and, unlike early storics, they are seldom stated overtly.

In one of the best examples of the type, Harry Bates' 'Farewell to the Master," 1 humanity's anthropomorphic blindness is exposed. The story begins with the sudden arrival of a time-space machine in a large city at about the present time. From the machine step a metal giant and a manlike creature; the latter is immediately shot and killed by a fanatic. The robot-like being freezes into immobility, and it and the ship are placed in a museum. In the solitude of the

1. "Adventures in Time and Space" (hereafter referred to as AT\&S), pp. 779-815.
night, however, the metal giant tries to recreate his human companion from the recordings of the man's speech made when he stepped from the shiptheoretically based, probably, on the suggestion that given one fact a good, philosophic mind could reconstruct in its entirety the universe from which it came. At last, with the materials for success at hand, over the misunderstandings and attempted interruptions of officials, the robot prepares to depart in the ship. He is asked to carry a message to his master, and the metal giant replies with what is one of the most effective inal lines of any story: "You misunderstand. I am the master.' ${ }^{1}$
A story suggesting a different kind of visitor is "Expedition" by Anthony Boucher' (now co-editor of The Magazine of Fantasy and Science Fiction), which depicts the possibly disastrous consequences of man's native skep-ticism-a theme very common in science fiction recently, since several magazines have loudly championed the flying saucers and their extra-terrestrial origin. In Boucher's story, the insect beings of Mars. whose principal art form is the torturing and killing oi other types of life, send an expedition to earth which lands in an American desert and meets a photographer specializing in desert photographs. After entering into communication, they are finally frightened away when the photographer shows them greatly enlarged pictures of an insect being killed by the huge hand of a man, and thus convinces them that he is actually a dwarf specimen of his race. After returning to our moon, however. the Martians realize that they have been tricked but are safe from discovery, since no one will believe the photographer even with his pictures. They can proceed to build up an invasion-
2. Op. cit. p. 815.
3. TESF, p之. 740-7.31.
base on the other side oi the moon, which is always conceaied from man.

This story introduces a factor in science fiction which is assuming the nature of a symbol: the uee of Martians to represent any kind of alien. To refer to an unidentified alien as a Martian began originally as a convenience, a tendency probably tracing its origin from Orson Welles' radio version of H. G. Wells' "The War of the Worlds," ${ }^{1}$ when the attention of the E-nited States was focusied on Mars as the most probable invader. Ray Bradbury has doubtlessly used this kind of symbolism to the best advantage in his Martian stories. ${ }^{2}$ but others have contributed to its growt: and significance.

ONE STORI of this kind is Martin Pearson's "The Embassy." 3 in which a detective is approached by a man who insists that there are Martians on earth; he wants them traced. The detective is skeptical but, being well paid, agrees to accept the assignment. The two track down the Martians in New York by finding a private house which subscribes to every major paper and magazine (a convenient way to learn a great deal about earth), but they are frightened by the death of an agent they have had watching the house. They get drunk and disagrecable and are finally slipped a doped drink. When they are searched for addresses to which to send them, the address of the supposed Martian house is found. Arriving at the house conscious but paralyzed, the detective watches the Martians attack his client with unconcealed sadism, exclaiming with loathing. "That Venusian!" 4

An example which carries this tendency even farther is Henry Kuttner's

1. New York and London: Harper, 1838.
2. "The Maitian Chronicles", Garden City: Doubleday, 1950.
3. ATSF, pm. 429-494.
4. $I:!!$, p. 4:4.
"Don't Look Now," 1 which build a surprising amount of suspense out of the conversation of two men at a bar. The conversation is, however, unusual, to say the least: one of the men (most conveniently referred to as One) nervously begins the conversation by leading up to a discussion of possible alien presences (Martians) on earth and finally confessing that he is convinced that there are such beings here. They pass as humans, he says, but actually, through their hypnotic powers, control almost everything that goes on. Their identifying feature is a third eye in the middle of their forehead which is undetectable except when they think they are not observed. The other man (Two) is amused at first, then incredulous, and finally, after his objections have been explained away, convinced by a picture One has snapped of a Martian in an unguarded moment. He admits, then, that he has had suspicions of such things for some time but has feared to mention it, not knowing who might be a Martian or under Martian control. They set a time for a further meeting, and Two gets up to leave. One, who had begun the conversation, opens his third eye in the middle of his forehead and stares after him.

There have been a number of stories in recent years built around alien invasions or reconnaissances of earth in which the aliens are defeated by forgetting, or neglecting to take account of, one minor fact. Such a story is Edwin James' "Paradox," 2 in which the first human to reach the moon happens to be an ignorant, superstitious petty thief who drives the aliens-encamped on the other side of the moon, supposing that he is repre-sentative-mad with his twisted, inconsistent mind. Murray Leinster's "Nobody Saw the Ship"3 suggests a

1. "My Best Science Fiction Story", op. cit.
2. TWS, Oct., 1349, pp. 135-144.
3. Future, May-June, 1950, pp 40-49, 9497.
one-being survey of earth which is foiled because the being ignores the insect population, and takes off with good news for his race only to find that the ship is ruined and his mission can only end with his death. A final instance is Eric Frank Russell's "Exposure," 1 which describes an invasion by a race of aliens so malleable that it can imitate anything; the spaceship descends in a poorly populated district and the aliens proceed to imitate some of the humans they find. But when they go out into the world, they are quickly picked up. They had set their ship down in a nudist colony.

AN ELEMENT of satire still remains in occasional storics of this type as evidenced by Ross Rocklynne's "Jackdaw"; 2 its characters are members of the oldest, wisest race of the universe, and their reason for being and greatest delight in life is the solving of puzzles of all kinds. They send their spaceships throughout the galaxy to seck out new puzzles and problems and prefer them complicated artificial!y, if necessary. (Which is to say that man's noblest aspect is his thirst for knowledge: after all, what is man's attempt to understand the natural laws of the universe, himself, and the nature and purpose of life but an effort to solve the greatest puzzle of all?) One "recreation ship" returns with a problem encountercd on the third planet of a snall solar system; there, they found the citics in ruins and one lone survivor in an airplanea survivor with a toothbrush mustache and hair that falls down over his forehead, who, after attacking the ship with robot planes, finally crashes his own into it in a last suicidal mission. The exploring party which returns to the planet to solve the riddle applies several psychological axioms to the problem in order to translate the lan-

1. ASF, July, 1950, pp. 107-123.
2. TBSF, pp. 764-785.
guage, such as: "the ultimate and even the direct purpose of all intelligent creatures is to solve puzzles" or "all intelligent creatures seek intelligently that relaxation of mind and body which is known as recreation and happiness," but neither of these works. The researchers play their trump card: "all intelligent creatures seek happiness by devoting themselves to the happiness of others entirely, forgetting themselves." ${ }^{1}$ Using this axiom, the situation translates itself into a planet divided into sectors, each with a Captain of games; from time to time one sector would wage a game with another sector, not for its own enjoyment but for the enjoyment of others, and everyone would joyfully join in turning out materials for both sides. The last survivor had started the biggest game in history-but there the translation falls down. The old and wise race had to give up the problem in failure, commenting in the end on the vanity of a jackdaw which stole a jewel to glorify its nest.

This type of story, together with that following. seems to have an assured future in science fiction; it is dramatic and capable of great variety. and its flexibility makes it adaptable tn any number of thematic messages. The one difficulty-and it is a large one-is making convincing the description of alien psychology and thought processes.

## $\therefore$ The future

THERE IS little difference in plotform between an alien in the present and an alien in the future. Most of the comments which apply to the preceding classification apply to the present one, except that the stories concern themselves more with future problems and the element of immediate application to our modern problems is not so often present. The type

1. Op. cit., pı. 781-789.
itself probably originated in modera fiction.

The principal thematic trend in stories of this type is a glorification of humanity-not in its present state but in a possible future state of perfection which it has reached by long struggle. The philosophical position is, then, not anthropomorphic, but one which points out to mankind the way to a better life. A current attribute of humanity, usually minor and unnoticed today, is occasionally singled out as important in preserving mankind or establishing its superiority in the universe. Whatever the reason, these stories, unreasonable as it may be, have the effect of leaving the reader with a warm glow of satisfaction in belonging to the human race.

The perfection reached by humanity in Campbell's "Forgetfulness" has already been discussed in the first section of this work. A. E. van Vogt's "Resurrection" 1 is a story of similar nature, which begins with an expanding alien race landing an expedition on a ruined earth. The scientists, who have a means of reconstructing a living being from a piece of the skull, revive three men from remains in a museum; as soon as they have learned all they need from the men, they kill them. The fourth, however, disappears as soon as he is revived: he has almost complete mental control of matter, just as did Campbell's characters. The human race was destroyed, he later tells the aliens, by a vast nucleonic storm from space, ninety light years in diameter: the race had dispensed with spaceships, and, in any case, the only star with planets that had been discovered was in the path of the storm. The most important discovery of the alien race-and that by acci-dent-was a machine for locating stars with planetary systems, an absolute

[^6]necessity for a stellar civilization in a galaxy where (so our astronomers theerize) only one star in 200,000 may have planets. This locator and the resurrection machine were the first missions of the revived human when he disappeared; with them in his possession, he could not only resurrect the rest of the human race but it would make possible the galactic civilization the race could not found before. The aliens remain a menace; they can bring down destruction on earth before the race is ready if they can get the news back. Sut the man tricks the aliens into leaving, and iinally destroying themselves, in the belief that they are keeping their devices from him.


ASLIGHTLY different type of story, one that might best be described as gentle satire touched with sentiment, is Robert Moore Williams' "Robot's Return,"'1 which describes an expedition of robots to a desolate earth and its attempts to solve the riddle of the death of the world in an effort to discover the mysterious origin of the robots themselves. Anthropomorphism gets a few subtle digs in the
robots' efforts to find metal forebears and their attempts to trace a line of descent from simple machines to themselves, but finally they are iorced to the conclusion that chemical life must have built them.

Arthur C. Clarke's "Rescue Party"? contains the greatest amount of that somewhat illogical glow of pride in humanity described above. The author postulates a galactic civilization, led by a race which has been lords of the universe since time began and composed of every race, of sufficient civilization in the galaxy. These races have constituted themselves as guardians of life in the galaxy and inspect cach solar system once every million years. Fut in the "incredibly shors time" of 400.000 years, intelligent life hes appeared on a planet of a sun about to become a nova. A huge spaceship is sent to rescue what members of the race remain. but they arrive on earth to find the land already burned to a crisp, the world completely de-scrted-nothins remaining but an enig:natic tower apparently broadcasting ainlessly into space. They leave, just before the sun's explosion, still puzzled about the absence of people. Not until they are deep in space does it occur to them that the tower might have been broadcasting television pictures of the nova and its results to the remnants of the race who have escaped in ships. Incredible as this sounds to the members of the rescue party, who have never heard of any race achieving space flight in less than three thousand years after the discovery of radio waves-much less in two centuries, they follow the linc of dircction of the radio beams and find thousands of huge reaction-rocket spaceships. The attempt to cross interstellar space would take centuries and only the descendants of the original voyagers could hope to reach their goal. The

1. AT\&S, pp. 687-697.
2. ATSF, pp. 496-517.
leader of the rescue party turns to his second in command:
> "You know," he said to Rugon, "I feel rather afraid of these people. Suppose they don't like our little Federation?" He waved once more towald; the star-clouds that lay mass:od across the screen, glowing with the light of their countless suns.
> "Something tells me they'll be very determined people," he added. "We had better be polite to them. After all, we only outnumber them about a thousand million to one."

> Rugon laughed at his captain's littlo joke.
> Twenty yearis afterwards, the remark didn't seem so fumny. (1)

The scope of the type is limitless,
and so are its possibilities. If at times the stories seem somewhat inconsequential and without great meaning to our modern day, it is not because they have to be so. If science fiction's future lies anywhere, it lies in the opposite direction, toward greater meaning, greater significance. In this respect, the present type has, at least, great potentialities.

1. $O_{i}$. cit., p. 517.

## READIN' and WRITHIN'

worked out for themselves, but who cares? Good straight adventuie. -Katherine MacLean

HERMITAGE HOUSE, Inc., is the publisher of L. Sprague de Camp's "Science Fiction Handbook", which is one in a series; the publishers aim to build up a professional library for writers.

Their case is well-stated in the "Note on The Professional Writers Library", page 7. Remarking the need for such a series, it is asserted that, "The texts on composition, rhetoric, grammar which the writer studied in school and college are not adequate. They cling to an artificial treatment of the forms of discourse and resist the natural processes by which language grows and changes. Of the unacademic texts on writing, many have assumed a beginning writer, a rank amateur, as their sole reader; and they have not even served him well. They have been properly viewed with scorn by the professional as hack-manuals by inexpert $\begin{aligned} \\ \text { 'hetors." }\end{aligned}$

From my own experience, I would say that this is no exaggeration; with the exception of Jack Woodford's "Trial and Error", and Scott Meredith's more recent, and better, "Writing To Sell", I've seen little that I could recommend to either the beginner, or the writer who has sold some work, but isn't sure why. And, since no other volume of this nature exists (a couple of symposiums on science fiction and science fiction writing have appeared, but neither offers anything in the nature of an organized and integrated definition of the field and its requirements), this
volume is unprecedented.
Let me say, without further preamble, that the book achieves its purpose splendidly. While the meat is instruction on science fiction writing qua writing fiction in general, the fact remains that the field does contain special aspects with which a beginner-either a beginning writer, or a writer who's beginning science-fictionmust be familiar. Thus the first six chapters offer a brief but solid definition of the field, outlining its special differences; this is collated with a valuable bibliography, both of published science fiction and scientific texts, in the back.

I found but one error in the book, and that a minor one; however, for the record, it should be stated that John Michel had no part in the litigation mentioned on page 138.

The specific market requirements ars of course, that part of any such book which will go out of date first; the author feels that his information will remain reasonably current for some years to come, though warning readers not to take his listings for granted. I suspect that there will be more and carlier alterations than Sprague docs-but tomorrow and tomorrow and tomorrow will prove which of us is right.

In the meantime, I intend to re-read this book for my own instruction, and urge all of my fellow authors who have not already reached the stage of ultimate perfection, and $160^{\circ} ;$, sales from here to obscurity, to do likewise.

RWL

The "Professor" had braved great perils to reach Earth, and believed he knew what he was up against. But he hadn't counted on the menace of Fatty Schultz and Irv Lece.


# THE UWWILING PROFESSOR by Arthur Porges <br> (illustrated by Milton Luros) 

ON THAT fateful afternoon Fatty Schultz and Irv Lece had cut their last classes, and were taking a gloomy walk together, scrambling through the scrubby brush well behind the athletic field.

There were good reasons for their unhappiness. Fatty was failing in Calculus II with a velocity that varied directly as the square of the number of lectures attended. Irv's math instructor had informed him, with a kind of loathing respect, that his only salvation lay in recommencing the study of arithmetic-taking five or ten years in the process-and then retiring to
a cave for perhaps another fifteen in the vain hope of digesting, through meditation and prayer, the multiplication table. After that, Irv might be ready for elementary algebra, but not, the professor hoped to a merciful God, in this unfortunate institution of higher learning.

As a matter of fact, the whole of their fraternity, Omega Pi Upsilon (usually referred to on campus as "Oh, P-Yu") was in the same boat regarding almost every subject offered at Bateman College. Bateman had courses that ranged from Aardvark Breeding to Zythum Brewing, but no
field of knowledge troubled them more than mathematics.

Hence the long face on Irv Lece. Fatty's visage also strove to elongate, but simply wasn't built for such an accomplishment. Instead, his piggy little eyes, ordinarily glowing with a kind of coarse good-humor, were now smouldering with resentment.

They had just seated themselves in a small clearing, where Fatty, after setting his calculus text on a grassy mound, began to heave rocks at it, when there was a whistling scream, a jarring whump, and before their bulging eyes a small disc lay crumpled, barely ten yards away.

A shrill creaking came from this odd craft, which looked like a man-hole-cover some eight feet in diameter. and twenty inches thick. Then, as they stared in wonder, a badly-sprung port opened crazily, and a small rabbit flopped out. It may be stated here that the creature was not actually a rabbit, but that any difference between the disc's pilot and an ordinary cottontail was imperceptible to the naked eye.

For a moment the rabbit swayed drunkenly, its big eyes cloudy, then it hopped towards Fatty, preferring. perhaps, his larger gravitational field over Irv's. Extending one snowy paw, it squeaked: "Good afternoon, gentlemen. Permit me to introduce myself. I am a good-will ambassador from Venus, and by your conventions should be addressed as 'Professor.' My name," he added a trifle pompously, "is Iglowt P. Slakmak, and I hold degrees comparable to your PhD, LLD, and M. D." All this in a very British accent.

Fatty gave a hoarse croak; Irv's knees knocked together.
"Come," the rabbit chirped, "chin up, fellows! There's nothing to be afraid of. I speak English because we've been monitoring your radio broadcasts for years. Television is a bit trickier, but we've seen a few. And
by listening to educational programs, I've learned a great deal about terrestrial culture, which I notice is based upon cigarettes, used cars-but never mind that, now. I must get to Washington and present myself. A rival of mine is about to contact Mars for the first time, and I hope to send in my report on Earth first." He peered at them anxiously. "You do understand me, chaps, don't you? I learned the best English from B. B. C., you know."

S EEING that the two boys were still dumb, the rabbit, with a mighty effort, picked up the threepound calculus text, which was bound in a revolting green. As he did so, a paper fluttered out, and the professor deftly scooped it up. He studied Fatty's messy scrawlings for a môment, then said warmly: "Ah, I observe that you chaps are beginning the study of elementary mathematics." He shook a paw waggishly. "The limits are wrong on this integration: they should go from pi-over-two to pi-over-three first, instead of to zero. There's a discontinuity at pi-over-three, and your result, that the center of gravity of this six-inch cube is nine feet to the right, looks somewhat implausible."

At this, Fatty finally found his voice. "A riscontinuity?" he gulped. "Whassat?
"Aw, you know," Irv rebuked him. "Old Cusp's been gassing about 'em for days. now."
"Has he? Well, what is it, if you'ra so smart?"
"I don't remember," Irv said brazenly, "but at least I heard the name before."
"At pi-over-three," the rabbit broke in with authority, "the denominator of the integrand vanishes. To put it loosely, the function becomes infinite."

Fatty looked at Irv; Irv gaped at Fatty. The piggy eyes lit up. "A rab-
bit that knows math!" Fatty breathed.
"Knows it! He wrote the damn book-a real brain!" Irv exulted.

Once again their eyes met meaningly. "You always said," Irv remarked in an abstracted manner, "that you could lick the guy who invented calc."
"I sure can," Fatty asserted, "but-" He paused; then with a specd surprising in one of his bulk, his thick hands shot out, and Professor Slakmak, the eminent Venusian savant, found himself dangling by the ears from stubby, freckled fingers. He kicked with a vigor shockingly undignified.
"Let me down!" he squeaked furiously. "This is outrageous. A friendly ambassador's person is sacred among all civilized peoples; your national President shall hear of this insult!"

Fatty looked at him, showing uneven teeth in a loose grin. "Bug.; Bunny," he gloated, "you are now the official mascot of Omega Pi Lpsilen!"
"I second the motion," Irv said, shuffling in excitement.
"We'd better hide his ship, though." Fatty cried, full of ingenious intelligence now that nobody was grading him for it.
"It's too big, ain't it?" Irv replied doubtfully. "Simmer down you!" he ordered the writhing proicssor. "We don't wanna choke you, but-" The captive subsided, contenting himself with little quivers of indignation.
"It's awful light," latty muttered, shoving the damaged saucer with one size eleven shoe. "We'll move it over here, pile a lot of brush on top, and-"
"—Start a fire!" Irv interrupted joyously.

The professor gave a piercing squeal of protest.
"No, stupid," Fatty told him, winking. "If the prof here helps us out this semester, we'll give him back his old disc, right?"
"Right," Irv agreed, crossing two fingers.

In fifteen minutes, even with Fatty working one-handed, the ship vanished under a pile oi stiff brush. "That's that," Irv said, taking a deep breath. "Now-"
"We can't take him like this," Fatty remarked, swinging the professor by his ears and giving him a shake by way of emphasis.
"Why not? We just been rabbithunting, that's all."
"Too risky. Even if the professor keeps quiet, some joker from another frat might get nosy."
"He'll be quiet," Irv said grimly. "I know how to hit a rabbit on the neck with the edge of my hand-" Here the professor began to kick frantically, and Fatty snatched his hind legs, holding him rigid from ears to toes.
"There's an old cardboard box back there," Fatty said. "That'll do the trick."

A few seconds later the sullen captive was stuffed unceremoniously into a damp, mouldy container, and the two students returned to the campus, their hearts free from nathematical worries.
"The frat will owe us plenty for this," Fatty said darkly. "We've never had anybody to coach us in math."
"They'll be licking our boots," Irv agreed. "But they always have, the poor dopes!"

TH.AT NIGHT the professor, poorly refreshed by some wilted carrot tops and water, found himself in a circle of eager Omega Pi Upsilon's, delivering a detailed lecture-mostly problem-solving-on Section 45 of Broota's "Introduction to the Elementary Rudiments of the Differential and Integral Calculus."

He was a good teacher, and when either his enthusiasm or expository art faltered, Fatty revived it quichly with a sharp pinch or stinging slap. So,
although the average I. Q. of the fraternity was seventy-six, a certain amount of mathematics get through; and it was almost midnight before the unhappy ambassador found himself lying in a dirty, fetid cage, formerly the residence of the fraternity parrot, who had expired for lack of intellegent dialogue to copy. Rabbits, even Venusian ones, cannot weep, but the professor's soul was heavy within him.

And so it went, day after day, week after week.
"I am quite amazed," Professor Cusp told a skeptical colleague towards the end of the term, "at the remarkable way Schultz and his Oh P-Yu bunch have improved. Their homework these last six weeks has been excellent."
"Somebody's coaching them-or doing it outright," was the cynical reply. "I find no improvement in their 20ology."
"No, that's what I suspected at first, but it can't be true. For example, on last week's extra credit problema real stinker-they turned in over a dozen correct solutions, all different. Nobody would go to that much trouble for the-P-Yu crowd; they're about as popular on campus as Malenkov is with the D. A. R."

Another colleague, who had been listening, demanded: "But you won't let Fatty Schultz by, will you?"
"I'll have to," Cusp admitted. "Even though his exams are still horrible, I give quite a bit of weight to good homework, so-"
"You swine!" the other said sourly. "Now I'll get him."

Cusp laughed. "Ah, but you're supposed to be tough; they're afraid of you."
"They'd better be. It's a pity the biology lab has to experiment on poor chimps while we give degrees to anthropoids like Fatty!"

THAT NIGHT Fatty told his unwilling mascot the bad news. "I'm
sorry, Prof," he said genially. "It's only one more term, then I'll be done with math, and you can go back to your disc. By my last course is with old Totient, and he's rough."
"You promised!" the professor squealed angrily.
"This time I mean it, honest."
"Hey, Fatty," a fraternity brother objected, "ain't you gonna leave the prof to our gang? Just cause you're through-" He broke off in confusion as Irv kicked his ankle, hard.
"Ignore the jerk," Lece reassured the crestfallen rabbit. "When Fatty and I finish our math requirement, you're on your own again. Course, you'll have to promise not to tell the President!" Over the professor's head he winked broadly at his friends.
"I won't do it! It's a cad's trick!" The rabbit's brown eyes were bright with rage.

Fatty pawed his soft fur with one lardy hand. "C'mon, Prof, be a sport," he urged, greasily affectionate. "We like you a lot. You wouldn't let us down now."
"I—will—not—do-it! You prom-ised-"
"You will, too!" Irv grunted. "Don't give us any bachtalk. If I have to twist your ears-"
"Lse the cigarette lighter," somebody suggested, half ashamed. "He's only bluffing again."
"I'm not," the professor said sturdily. "You can burn me, kill me, but I won't tutor this bunch of cretins any more!"
"Where does he get those words?" a student wondered alcud. "What's a cretin?"
"Irv," Fatty said in a sly, buttery voice, "where's that nasty pooch who adopted the Delts last week? The one that chased the chaplain into Tom Paine Hall. I'll bet he's a first class abbitray oundhay."
"Mac," Irv addressed a slender, dark boy, "they keep him in that shed

by the athletic field. Go and-ah borrow him, will you?" Mac left.
"What's an abbitray oundhay?" the professor quavered.
"You'll find out!" Fatty told him grimly. "Don't they teach pig-latin on Venus?"

There was a strained silence, while some members of the group whispered protests. But there was open resistance. Fatty and Irv ran Omega Ph Upsilon with an iron hand.

Then the door opened, and Mac, tugging hard at the collar of a large dog, lurched into the room. "Here's Hotspur," he grinned, as the brute strove to mangle the cowering professor.

Hotspur was a canine melting pot. The Spitz in his ancestry seemed to predominate, but there were plain traces of airdale, setter-and crowning evidence of some mis-alliancedachshund. White teeth bared in a slavering snarl, the dog glared at the rabbit, lunging against his collar as Mac held hard.

But the professor had collapsed, all
his courage gone. "A dog!" he gasped in horror, and Hotspur seemed startled at the human voice emerging from a rabbit. A thin whimper came from the professor. "Take that monster away," he begged. "I'll do any-thing-anything!"
"That's better," Fatty chortled. "But we need.this good ol' hound more than the Delts do. Put him down in the basement-just in case." He eyed the professor, who shrank into a furry, abject heap.
"My new prof, Dr. Totient, is tough," Fatty said. "Bugs Bunny here is gonna have plenty to do. We'll clear out now and let him prepare his assignments! See that you watch those signs," he jibed, handing out what he had so long received. He fastened the rabbit's chain to its stout staple in the wall. "Here." He fished an apple core from his jeans, and tossed it at the professor, giving him an oily smirk. "Just to show there's no hard feeling. Eat hearty!" He stumped out, followed by his companions.

GRADUALLY it grew dark, and the deserted fraternity-house was quiet. Ravenous, the professor finally nerved himself to nibble the apple core, which to his sensitive nostrils reeked of Fatty. He had just downed the last noisome fragment, when there was a loud, inquisitive sniff at the door. He grew rigid. Another sniff and the shoulder thrust of a heavy body.

Insecurely shut, the door swung open, and $\approx$ huge, white form stalked in The professor cringed, moaning a little, the hot alien scent of dog in his nose, prepared to meet a terrible death.
"Ssst!" the big mongrel admonished him. "I'm a friend," he rumbled in slow, thick English. Trotting over, he took the slender chain in his great teeth, and threw his thirty pound body into the wrench. The staple pulled free.
"Let's get thell out of here," he grunted, "while your bunch is gone."
"B-but my ship," the professor stammered, staring in bewilderment. "It's broken down, and those two awful boy's will find me before I can fix it."
"Never mind; I'll give you a lift in mine. I'm heading for Washington, then I'll have to report back on Mars. I can drop you either place. I just got word myself, only a few days ago, that our two planets had finally made contact. They asked me to find out where you'd disappeared to, but I never dreamed you were here. When I heard you talking English-: But we'd better scoot. I've spied out this place long enough - I don't think it's quite representative."

They had just reached the brush behind the library, where the profes-
sor's passionate story was completed, when Hotspur, looking back, saw lights flash in the fraternity house windows.
"Wait here," he said cryptically. "Be right back." He sprang into the brush, and vanished. A few moments later, the anxious professor heard some yells of agony coming from the campus, and before long Hotspur returned, panting.
"I know you'll get a sympathetic hearing in Washington," he gasped; "and wve Martians abhor voilence, but there are times-" He rubbed one paw against his mouth. "I didn't like the taste of Iry, but Fatty's even worse! I hope," he added viciously, "they have to take Pasteur treatments!"
"Me too!" Professor Slakmak agreed cheerfully. "And best of all, they'll flunk math-but good! Where's your ship-Pal?"



## SCIENCE FICTION SPOTLIGHT

NL'WS AND VIEWS: Higher education's recognition of contemporary science fiction appears to be unlimitied. The University of Michigan, on July soth, held a public lecture on Science Fic-tion-with a panel consisting of a Piofessor of Physics, Chairman of the Department of Astronomy, Assistant Professo! of English, and Dean McLaughlin, professional sti writer. ...The University ot California recently had a month-long exhihition of science fiction books by such writers as Kuttner, C. L. Moore, Chad Oliver, Hadbury, Huxley, and others. ... Ind 11 acel Institute of Technology (Philadelphia) offers an elective course in "Imaginative Literature"!

Marvin J. Edwards (oî Camden, N. J.) writes us of a title which was tripicat-ed-not simultaneously, however. "Full Citcle" by Hugi Raymoni (.Jom B . Michel) appeated in the February, 194:3 ruture. H. B. Hickey's offering was in the initial issue of Howard Browne's Funturtic, and it appared again in Fontustic Unirerse (Issue No. 2) with a Richard Matineson bline. ...Vemel Corie!!, Edear Rice Burroughs fan extraordinary, had a long leiter in: the $7 / 4$ issae of Cullie,s showing Thomas Wood how inaccurate was his iaformation for the latter's $5 / 5$ article, "He Tarzan-lou l"en".

How many readers are aware that Boucher's "discovery," Idris Seabright, is really Margaret Sit. Clair", .. New 20 k fandom, many years divided, is now in the process of unity. The actual mechanism of unity is now being discussed by New Lork fans chieïs. ....Julius Unger, sf
magazine dealer, teils us he received so many requests for the magazine version of "Skylark of Space" that he was compelled to publish it himself in book form!

Science fiction was created at a recerit Philadelphia Science Fiction Society meeting. Harold Lynch (along with assistants Will Jentins and Lyle Kessler) acted out introductory scenes. A panel consisiing of L. Sprague de Camp, Milton A. Rothman, and Ben Chorist then completed the stories. Strange and varied indeed were tha extompor:mens scienificion plots created by this imacinative trio.

Win. J. Knaphende, oi San Francison, queries: "I noticed in your column in $D:$
 len Cilasser as editor of Tile Time Traיel$l_{\text {ei }}$. In "The Fantasy Fan," Science Fictinn. October, 19:39, p. 110, Julius Schwartz is listed as editoi. How come the discrepaney:' The answer is that Schwartz was Assosiate Editor; Allen Glasser was Edito!. The author of the article in Scieite Fiction may have been confused in that Julius Schwartz was Editor of Science Fiction Digest, which appeared after The Time Trave:ler.

Harold Lynch, who sold his first story to MeComas and Boucher, ("Artists at Work"-F\&SF, April, 1952) has just compleied another short story, "Age of rietiremen:". ...The following advertisement appeared in a recent issue of the Nelu York Times: "EDITOR, science fiction media, fully comprehensive for complete magazine. Excellent oppty." We never. thought the day would arrive when s-f editors weie sought through newspaper advertising.

FROM THE World of Books: Chamberlain Press is the most recent entry into the book publishing field. Alan E. Nourse, top-flight writer and s-f fan, is associated with Cnamberlain in an administrative capacity. Their first release will probably be an anthology of Richard Matheson stories. . . Speaking of Matheson, it is rumored that Dick (who has written short stories exclusively) is now at work on his first novel. .. ther novels in the creation stage are by Garen Drussai and collaborator, who are slanting one for that bis $\$ 6.501$ s-f contest; Mark Clifton and Alex Apostolides, who are writing one for Ballantine Books; and Chad Oliver, who has just commenced a 60,000 word epic, tentatively titled, "Community Study". .. Fintey's famous "Circus of $\mathrm{D}_{1}$. Lao" will be included in Ray Bradbury's second collection of stories for Bantam Books. ... Raymond F. Jones' "This Island Earth" has bean selected by Doubleday for their book cluls. ... Donald A. Wollheim is the latest to write a juvenile for Winston.

The next "Prize Science Fiction" will include Kichard Matheson's "Mother by Protest'. ...August Derleth is now editing a new annual, "Thee Rest of Fantasy." The initial one will include Johin Anthony's "The He"tunal? buys are Jack Vance's "The Space Pirate" (Toiny Press) at 3.je; also ais are two Ballentine Cooks: "The Secret Masters" by Geisld Kersh and an excellent Kutrner anthoiory", "Abcad of Time"; Pocketbook热 04 3 is "Plainet of the Dreamers" (formerly "Wine of the Dreamers") by John D. MacDonald; and, although not science fictien, we enthusiastically recommend Edith Hamilton's "Mythology;" a beautiful 50 \& repint from Mentor Books.
The Dcinatifim: Film producer Jack Scaman, whose "Project Moon Base" (based on a Heinlein riginal) is about to -be released, is intceested in $E$. Everett Evans' unpublished novel, "Stairway to Nars," for filming. ... Jim Nichelson, active member of the fust fandom and VicePresident of the Boys' Scientifiction Club in 1930, has co-8uthored "Target-Earth!", a science fiction film now in production.

Another formerly active fan, Len Moffatt, is co-author of a television play, "Father's Vampire," which may star Bela


Lugosi. ..."Slan" may soon appear on the sereen! Lee Garmes, who recently won an Oscar for his camera proficiency, in a member of a group more than casually interested in it.

## THE FAN PRESS

ALTHOUGH very little was stated concerning fan magazines in previous editions of this department, we are now in a position to feature them regularly in "Inside S-F." This department, as many readers already have noticed, now also appears in Future Science Fiction. Consecuently, we have more space than we were previously allotted-therefore, a secthon devoted exclusively to the fan press.

A very attractive multi-lithed publication is Torquesiun Thzes 25 a copy from $1 u 41$ Cayuga Street, Santa Cruz, Califormia). 'the curcent issue, miortunately marlis the demise of the Tiness, but it is recommended nonetheless. It contains 56 neatly made-up pages and a pleasing assortment of material. Thcre is an mttiguing symposium on "Science F'iction and Fascism" by Peter B. Klein and Harvey Gibbs; David H. Kcller speaks of "The Fhilosophy of Age," and Fussell Watkins says, "Let's Clean up Fandom." For those who like fiction in their fanzines, this issue contains no less than five short-short stories.
A recent addition to the already-overcrowded fanzine field is Fun To Sice (10s from Larry Touzinsky, 2911 Minnesota Avenuc, St. Louis 18, Mo.). This wellmimeographed publication is more of the "inner-circle" type as the majority of the articles concern the fan world itself. However, there is enough to interest the general reader here. In fact, Harlan tillison's "Dear Mr. Editon" reviews the lead stortes from the various professional mag-azines-and reviews of the "prozines" ate not overly-abundant in fanzines.

A pubtication which can be termed a "semi-pro" (and which is heartily recommended) is Fantustic Worthls ('Jus from Sam Sackett, 1449 Brockton Avenue, Los Angeles 45, Califoraia). Along with a short stery by A. Beitram Chandler, the current (Summer) issue contains Robert Bloch's "Calling Dr. Caligari," a discussion of horror and fantasy films, replete with scentes from such classics as "The Phantom of the Opera" and "Dracula." Give this one a whirl!

An interesting little publication is Comet Fire which, although printed several years ago, has just been brought to our attention. This is a collection of poeiry by Barvin Edwards, many of which are in the fantasy and science fiction category. The contents includes "An Ode: 2053 A.D.," "The City of Tomorrow," "Comet Fire," and many others. Professionally
printed, this brochure of verse is obtainable from the authoi at 10.52 Merrinac Road, Fairvieur, Camden 4, New Jersey. Price: 25\&.

Please note the following change in address: all fan publications for review should be sent to Robert A. Madle, 1825 Academy Street, Charlote, North Carolina.

## TWENTY YEARS AGO IN SCIENCE FICTION

LAST ISSUE we discussed the reviral of Astuanding Stories under the Street \& Smith banner. As indicated, the first of the new Astomping was a strange conglamoation of weird íction, adventure stories, and a few straight stf yarns. The new editor, although not listed, was F . Orlin 'Tremaine. Many readers were quite dismayed at the appearance and assortment of stories contained in the October, 1933 issue; and, as science fiction fans are wont to do, they deluged Tremaine with letters of criticism and suggestion.

The November issue wasn't much of an improvement. It contained 144 pulp-size pages, with a cover by Howard V. Brown illustrating Murray Leinster's "Beyond the Sphinxes' Cave." The cover story was a so-so novelette concerning a Grecian cave which was replete with all of the creations of Greek mythology. This story could hardly be included in the genre of science fiction. There were other weird misfits with such titles as "The Lovely Ghost," "In the Shadow of the Tii," "The Man from Cincinnati," and "My Lady of the Tunnel." The first three were by authors never heard from again, but the latter was an Arthur J. Burks' "dream fantasy." The remaining stories were science fiction by Robert H. Leitfried, Jack Williamson, Harl Vincent, and Wallace West. The only one we recall as being of merit is Wallace West's story of the second dimension, "Plane People."

Nat Schachner's "Ancestral Voices" copped Brown's cover on the December, 1933 issue. This story was the first to be termed a "thought-variant," and the idea behind it-although guite original in treat-ment-can now be considered commonplace when compared to the incredible conceptepics which were to appear in inture issues of Astounding as "thought-variant" stories. This one told of the time traveler who went back to the year 452 A.D. (just as the Roman Empire was failing to the iavading Huns). During the battle, he disposed of a Hun who was his great-grandfather, many times removed. He disappeared, therefore, along with hundreds of thoasands of present-day people inasmuc! as he (and they) never should have existed because their ancestor was killed before iaking a mate.

This story was also a blast at the "ra-
cial purity" myth, because varied indeed are the nationalities of the disappearing contemporary people. Other worthwhile stories in this issue were "Terror Out of Time" by Jack Williamson; "Farewell to Earth" by Donald Wandrei (sequel to "A Race Through Time" which appeared in the October number) ; and "The Dernon of the Flower" by Clark Ashton Smith. In addition to the Snith story, there was but one other non-science-fiction entry, and this issue showed decided improvement over the preceding two. Paul Orban penned sevcalal of the interior illustrations, and the remainder were the work of Street \& Smith staff artists.

Wonder Stories surprised many by readopting the small pulp-size with its November issue, and increasing its pages from 96 to 128. (It had been pulp-size for 12 issues, November 1930 to October 1931, then returned to the large format.) It featured a typical colorful Paul cover, illustrating "The Call of the Mech-Men" by Laurence Manning, the first of the "Stranger Club" series. This one dealt with a strange race of mechanical beings residing in Northern Canada at the location of the magnetic pole. Sidney Patzer's twopart Utopian serial began: "The Lunar Consul." Well remembered is "The End of Tyme" by A. Fedol and Henry Hasse. This was a satire in which a man of the future visits the offices of the editor of (believe it or not) Future Fiction. Another outstanding story was "The Man With X-Ray Eycz," by Edmond Hamilton, in which was shown the horror of the possession of senses beyond those of the ordinary mortal. The remaining stories were by Carl Jacobi, J. Harvey Haggard, and James D. Perry, none of which have been selected by present-day anthologists. Although not a word was stated concerning it, the masthead listed Charles D. Hornir as Managing Editor ir place of David Lassen: Hornig was hired in this capacity (although only 17 years old) because of the impression the first issue of Hornig's Fantasy Fun had made on Hugo Gernsbach. Interiors were by Paul, Burian, and Winter.

The December Wonder featured another "Earth Guard" story by J. Harvey Hargard, "Evolution Satellite," and this one (a two-part serial) copped Paul's welldone cover painting. (The first of the "Eart'? Guard" storie3 appeared in the preceding issue, titled "Through the Einstein Line.") Like the preceding one, this was just fairly good space-opera. "The Inquisition of 6051 " b;j Arthur Frederick Jones (who was never heard from again) told of the era in which the deity had been replaced by Electricity, and the wrath dealt by God himself. This ecclesiastical tale always struck us as being out of place in a magazine so materialistic as was the Gernsjack Wonder. Clifton B. Kruse made
his initial entry to the pages of Wonder with a future-war story, "The Heat Destroyers;" the tale didn't overwhelm the 1933 s-f clientele. There were other short stories of average interest by Arthur K. Barnes and John Beynon Harris (John Beynon or John Wyndham today), and Sidney Patzer brought "The Lunar Consul" to an end. Represented in "The Readel. Speaks" were Festus Pragnell and a youthful Milton A. Rothman. The first two issues of Wonder under Charles D. Hornig were quite mediocre-but the majority of the siories had undoubtedly been accepted by his piedecessor, David Lasser.

AMAZING STORIES for November (small-size, 144 pages) boasted a good interplanetary-scone Lro Morey cover illustrating the second (and concluding) installment of .J. Lewis Burtt's super-galactic novel, "When the Universe Shrank." Jue W. Skidmore employed the fourth dimension to project his intrepid time-travellers into the Paleolithic Age in "The Beetle in the Amber." Skidmore, although probably just a name to readers of today, was very popular in the early thirtiesprimarily because of his "Pcsi and Nega" series-perhaps the only stories written in which electrons were the "heroes." "The Price of Peace" marked the first appearance of fan Mort Weisinger professionally, and it was an idealistic tale concerning the end of war. There weie mediocre tales by Harl Vincent and John W. Campbell, and Edgar Allan Poe's narrative of a 23th century balloon voyage, "Mellonta Tauta," was reprinted. Interiors were (as usuai) by Morcy, and Forrest J. Ackerman made his regular appearance in *Discussions" along with P. Schuyler Miller, Milton Kaletsty, John B. Michel, Donald A. Wollheim, and Olon F. Wiggins.

The cover story of the December Amazing was "Time's Mausoleum" by Neil R. Jones, and was painted by Morey. In this one, Professor Jameson and his immortal metal companions take to time-travelling and study the history of the earth for several millions of years. Professor Jameson was an extremely popular characte: twenty years aso, and there are many today who would appreciate reading an anthology of this series. Bob Olsen was represented with his clever "The Four Dimensional Escape." This depicted the escape of a condemned man from the gallows via the fourth dimension and how he proved his innocence. Other authors this time were : Miles .I. Breuer, Otis A. Kline, and Frank K. Kelley-all with run-of-the-mill material. Jules Verne was reprinted again ("The Watch's Soul') and Oswald Train had a lengthy defense of reprints in "Discussions."

In the fan-world the two printed monthlicy coitinued to bring news and articles
to the embryonic fandom. Hornig's Fantasy Fan was becoming slanted almost completely to the reader of Weird Tales, and the last two issses of 1933 were of little interest to the science fiction fan. The November issue of Science Fiction Digest, however, was chock-full of interesting items. There was a biography of Harl Vincent; Ackerman had his "Scientifilm Snapshots"; Francis Flagg wrote about his "Ardathia" series; Nihil (P. Schuyler Miller) continued his devastating satire, "Alicia in Blunderland"; and chapter six of "Cosmos" was by John W. Campbell.

SFD for December led off with a belowpar short story by L. A. Eshbach, "The Beast Men." Ackerman appeared with both his scientifilm column (in which he informed his 1933 readers that Paramount was about to produce "When Worlds Collide") and a biography of now-deceased Joe W. Skidmore. The usual news columns by Raymond A. Palmer, Julius Schwartz, and Mort Weisinger were printed and Rae Winters (Rap) wrote Chapter seven of "Cosmos," the colossal interstellar epic. Perhaps this novel by seventeen science fiction writers will someday appear in book form: it certainly can't be inferior to some of the mass-produced volumes being published today.

The issues discussed about brought 1933 to a conclusion. During this year, magazine science fiction reached an all-time low; but it was becoming increasingly evident that the bottom had been touched, and many improvements were in store for the future. 1034 was to be the great "thoughtvariant" year in Astounding, and Charles D. Hornig was soon to inaugurate his "New Plot" requisite for Woander Stories. Oldtime readers remember 1934 nostalgically, for it was the year in which some of the most incredible concepts were created, and these stories will be discussed in forthcoming issucs.


Goed Lord! I never suspacted them of baing in the race.

# so THEY BAKED A CAKE <br> <br> by Winston Marks 

 <br> <br> by Winston Marks}

## (illustrated by Ton Beecham)

He was tired of people - $\alpha$ "human interest" columnist, who specializes in glamorizations of the commonplace and sordid is likely to get that way. So . . . this starship seemed to offer the ideal escape from it all.


S
URE, I was one of the tough guys who said it would be great, just great, to get away from the boiling mess of humanity that stank up every inhabitable rock on earth.
Not being the Danicl Roone type, this was my private qualification for the job-being fed up to here with people, with the smothering bureaucracy of world government, with restrictions and rationing and synthetic diet supplements and synthetic blondes and mass hypochondria and phony emotions and standing in line to get into a pay toilet.

I hated my profession, trying to wring glamorous interviews out of bewildered heroes and press-agents' darlings and pompous politicians and
snotty millionaires and brave little wrunged chorus gixis. Their lives were no more glamorous thain their readers. They were the same mixture of greed and fear and smelly sweat and deceit and two-bit passion. My particular prostitution was to transform their peccadilloes into virtues, their stubbed toes into tragedies and their fornications into romance. And I'd been at it so long I couldn't stand the odor of my own typewriter.

Of course, I was so thunderstruck at being chosen as one of the 21 -man crew for the Albert E. that I never got to gloating over it much until we were out in deep space. Yes, it was quite an honor, to say nothing of the pure luck involved. Something like winning the Luna Sweepstakes, only twice as exclusive.

We were the pioneers on the first star-ship, the first to try out the Larson Drive in deep space. At last, man's travel would be measured in parsecs, for our destination was 26 trillion miles down near the celestial south pole. Not much more than a parsec-but a parsec, nonetheless.

As a journalist, such distances and the fabulous velocities involved were quite meaningless to me. My appointment as ofincial scribe for the expedition was not based on my galactic know-how, but rather on my reputation as a Novel-winning columnist, the lucky one out of fifty-six who entered the lottery.

Larson, himself, would keep me supplied with the science data, and I was to chronicle the events from the human interest side as well as recording the technical stufif fed to me.

Actually. I had no intentions of writing a single word. To hell with posterity and the immortality of a race that couldn't read without moving its lips. The square case I had carried aboard so tenderly contained not my portable typewriter. but six bottles of forbidden rye whis!ey, and I intended to drink every drop of it myself.
$\mathbf{S O}^{\circ}$, AT LAST we vere in space, after weeks of partying, dedications aad speech-making and farewell dinners, none of which acoused in mee a damed regret for my decision to forsake my generation of fellow-scrabblers.

Yes, we were all warned that, fast as the Larsoil Drive was, it would take us over 42 years, earth-measured time, to reach our destination. Even if we found no planets to explore, turned around and came right back, the roundtrip would consume the lifetimes of even the new babies we left behind. To me this was a perversely comforting thought.

All I wanted to know was how they expected me to live long enough to complete the journey? I could think of pleasanter ways to spend my last days than cooped up in this sardine can with a passel of fish-faced, star-happy scientists.

I was 48 when we departed, which would make me a lucky 90 if I was still wiggling when we hove into our celestial port. But the mathematicians said to relax. Their space-time theory provided, they claimed, a neat device for survival on our high-velocity journes:

The faster a body moves in reference to another, the slower time appears to act on the moving body. If, they said, man could travel at the speed of light, supposed!y time would stand still for him. This, I reilected, would mean human immortality-mich too good for people.

Anyway, since our average velocity for the trip was plamed to come out around a tenth of the speed of light, to us on the Allacrt E., only about five months would seem to have elapsed for the journey that would consume 42:2 years, earth-time.

It seemed to me they were laying a hell of a lot of faith in a theory that we were the first to test out. Our food, water and air-supplies gave us a very smail safety margin. Wiith strict ration-
ing we would be self-sufficient for just 12 months.

That left us just two months to fool around looking for a place to sit down. I mentioned this item to Larson on the second day out. I found him at coffee mess sitting alone, staring at his ugly big hairy hands. He was a tall Swede with a slight stoop and the withdrawn manner of a myopic scholar.

As commander of the ship he had the right to keep aloof, but as scribe, I had the privilege of chewing him for information. I said, "Skipper, if it took us generations to discover all the planets in our own little solar system, what do you figure the chances are of our spotting a planet near our goal, in the short time of two months?"

$\mathrm{H}^{\mathrm{E}}$E WAS silent while I drew my ration of coffee and sugar, then he opened his hands and seemed to find words written on his palms. His eyes never did come up from beneath his shaggy eyebrows. "If they exist," f:e said slowly, "we might find one. We have better telescopes and our vantage point in space will be superior."

He was a sorry-looking specimen, and I remembered that the fifty-yearold scientist had left behind a youngish wife who adored the ground he walked on. The handsome, blonde woman had stood heroically beside the ramp and watched, dry-eyed, as her husband ascended.

There had been no visible exchange of farewells at the end, as he stood beside me in the air-lock. They just stared into each others eyes oblivious to all but the maudlin serrow of their separation.

Then the portal had closed and widowed her, and I had the feeling that Larson was going to tear at the great, threaded door with his bare hands and renounce the whole project. But he just stood there breathing a little heavy and clenching those tremendous hands until it was time to take off. In a way I envied him an emotion that was long
dead in me, dead of the slow corrosive poison of contempt for the whole human race. Dead and pickled in the formaldehyde of ten thousand columns for which the syndicates had paid me nothing but cold money.

Here was a man whose heart could still love, and I hated him for it. I said, "You look like you still have regrets. Maybe this isn't worth your personal sacrifices, after all. If we don't find an inhabitable planet we won't have accomplished much."
"You are wrong," he said quickly. "We have already served our purpose."
"Testing the Drive, you mean?"
He nodded. "This morning in our last radio contact with earth I dispatched the word. The Larson Drive is successful. We have passed from our solar system on schedule, and our measurements of ship-objective time check out with the theory-roughly, at least."

He spread his hands out on the table. "This was our primary goal. The expedition ahead is subsidiary. Colonization may result from our exploration, true; but now we have opened the universe."

It was nice to know that things were progressing as planned. I asked, "What do you mean about things checking 'roughly'? Is there some error?"

He nodded and swallowed the dregs from the magnesium cup. "A considerable error, but it's on the safe side. Our velocity checks periectly, but our estimate of the time-shrinkage factor is so far off that Mr. Einstein's formulae will take some major revision to reconcile what has happened."
"We'll arrive sooner than planned?"
Larson nodded again. "According to shipboard clapsed time we will arrive in the vicinity of our destination in just ninety-two hours from now-a total of 122 hours since take-off. You were worrying earlier about our scanty supplies; this should put your mind at rest."

It didn't displease me. The lack of
privacy on this tin bathtub was even worse than I had anticipated. The news came as sort of a reprieve.

I looked at Larson, and suddenly I knew why the long face. His Tina!

For her, ten years would already have passed, and as we sat there talking, weeks of her existence were fading into oblivion-and Hans Larson was begrudging every second of it. Damned fool, should have stayed at home.

I left him brooding into his empty cup and went forward to the little control dome. One wonderful attribute of the Larson Drive was that there was no acceleration discomfort. Gravity was nullified at the outset, and ship's gravity was kept at an comfortable one-half "g".

MAC HULBERT, chief navigator, was alone up there, one foot cocked up on the edge of the broad instrument-board that looked like a cluttered desk-top with handles. He was staring out into the void.

Yes, void! They had said it would be black in space, but not even a glimmer of light showed through the transparent dome. As you looked to the side and back, faint, violent specks seemed to catch at your peripheral vision, but it was impossible to focus on a single heavenly body.

Mac didn't turn or greet me. His face was no longer that of the carefree adventurer with whom I had tied on a fair binge less than a week ago.
"Getting you down, too, Mac?" I asked. He was about the only one aboard I could even tolerate. He wasn't as sour on humanity as I, but he granted me the right to my opinions, which was something.
"God, yes!" he said. "Skipper tell you about the time-error?"

I said, "Yes, but what's there to be sad about? You don't mind that part. do you?" To my knowledge, Mac hadn't left anything behind but his dirts laundry.

Hulbert was in his mid-thirtics,
slender, balding and normally as cheerful and stupidly optimistic as they come. Now he looked worse off than Larson.
"Yeah, I mind that," he said kind of resentfully. "I thought we'd have more time to-sort of get used to the idea of -well, outgrowing our generation. But think, by now many of my older buddies will be dead. A dozen World Series will be over. Who knows, maybe there's a war going on back there?"

Of all the morbid nonsense. Yearning for the obituary column, the sports page and the headlines. But then people are rarely sensible when something disturbs their tidy little universe that they take for granted.

It was a little terrifying, though, staring out into that smothering lampblack. We were moving so fast and living so slowly that even the light-waves from the galaxies toward which we moved had disappeared. We were reversing the "redshift" effect of receding light sources. We approached the stars before us at such a velocity that their light impinged at a rate above the visible violet spectrum.

Mac blurted out, "It will never work out."
"What won't?"
"Colonization. Not at these unboly distances, even if we do find an earthtype planet or two. People won't leave everything behind them like this. I-I feel cut off. Something's gone, everything, everybody we knew back there. It's terrible to consider!"

ISAT DOWN beside him, stared out into the India-ink and faced a few over-due realitics myself. Our chances of finding a habitable planet were remote. Finding intelligent life on it was even more unlikely. That such life would resemble men, was so improbable that the odds in favor were virtually nonexistent.

So-what had I really to look forward to? A quick survey of the star-
system in the company of these nincompoop ideo-savants, then a return to a civilization of complete strangers-a culture in which we would all be anachronisms, almost a century behind the times.

A parade of faces began peering at me out of the darkness. There was Bess with the golden hair, and Carol and petite Annette-and Cliff, my redheaded oid room-mate who knew how to charcoal-broil a steak-and our bachelor apartment with the battered old teevee set and my collection of books and pipes, and there was my outboard jet up on lovely Lake Vermillion where a man could still catch a fat pike.

What would it be like when we got back? More people, less food, tighter rationing, crowding beyond conception.

Hell!
When the rest of the crew learned of our sharply-revised estimated time of arrival they came down with the same emotional cramps afflicting Larson and Hulbert. It was sickening, a bunch of so-called mature technicians and scicntists moping around like a barracks full of drafted rookics. matching miniature billfold photos of cuties that were now approaching crone-hood. The whole venture had become a tragic affair overnight, and for the next few days all thoughts turned backward.

So nobody was remotely prepared for what happened. They were even unprepared to think straight-with their heads instead of their hearts. And Larson was worst of all!

On the last day Larson eased off our 1800 -mile-per-second velocity, and as the stars started showing again, shifting from faint violet down into the more cheerful spectrum, spirits aboard began lifting a little.

IWAS IN the control-room with Larson and Mac when we got our first inkling. Mac was fooling with the electronic search gear, sweeping
for planets, when he gave a yip and pointed a jabbing finger at the scope.
"Audio," he stammered. "Look at that!" He lenghtened the sweep and the jumble of vertical lines spread out like a picket fence made of rubber.
"A carrier wave with audio modulation," he said with disbelief all over his face.

Larson remained calm. "I hear you, lacl. Don't shout." He studied the sig. nal and frowned deeply. "It's faint, but you can get a fix."

As they played with the instruments I looked forward through the green shield that protected us from Alpha C's heavy radiation. Our destination star was now a brilliant bleb dominating our piece of heaven. It was a difficult thing to grasp that we had travelled almost 26 trillion miles-in five days, ship's time.

Mac said. "It's a planet, sure enough, but that audio-"'

Larson snapped, "Forget the audio! Give me a bearing, and let's be getting on course. That may be the only planet in the system, and I don't want to lose it."

His arms pumped and his big hands pawed at the controls as he brought the inertialess drive into manual manipulations.

For the next few, tense hours we stalked the planet at a discreetly low velocity. When his navigation problem was complete and we were on a slow approach orbit, Mac began playing with the communication rig again.

The ship's intercom was cut in, and we had to chase people out as excitement mounted over our discovery. Finally, when his elbow had been josthed once too often, Larson ordered the control room cleared of all hands but Hulbert and me.

When we were alone Larson said, "This is fantastic."

Mac's face was tied into an amazed scowl, too, as he studied the feeble little patterns on his wave analyzer. "You said it," he breathed. "We've got our-
solves a sweet little earth-type planet, if we can believa the spectro, and unless I'm stark space-happy, there's something or somebody down there beaming a broadcast smack in our direction, following us around like the string on a yo-yo."
"How do you figure that?" Larson wanted to know.

Mac replied, "At this distance the field strength is too strong for anything but a beamed transmission. Mister, they have us bracketed."

Mac swung to the panel on his left and cut in the communication circuit. "It's strong enough to listen to, now. Let's see what kind of gibberish we can wring out of that carrier wave."

He threw a couple of switches and hunted for the exact frequency. A whisper and a rustle of the carrier brushed the speaker. Mac centered in and turned up the volume.

Then even I sucked air. A voice issued from the sound-cone. A man's voice: "-lcome to New Columbia. Welcome, Albert E. Come in, please. Welcome to New Columbia. Welcome, Albert E. Come in please."

$I^{1}$T REPEATED over and over. Larson let his breath go first with a nervous snort. Mac and Larson both looked at me as if maybe I had something to do with it. Hands trembling, Mac picked up the microphone and reached for the transmitter switch. Larson grabbed the mike from his hand. "Not so fast, dammit!"
"But they know we're up here," Mac protested. "They even know the name of our ship!"
"And our language," I added. I wasn't bored any more.

Larson nodded slowly. "What kind of devilish intelligence have we run into? I need time-to think."

The way he said it sent a cold draught down my spine, and then my imagination started catching up to his. At our rate of approach to the star system, how could any living being
have had time to sense our presence, pick our brains to learn our ship's name, our language, master our method of communication, contrive a transmitter and get on the air?

The magnitude of the accomplishment sent the importance of our little triumph of space travel tumbling into a cocked limbo of insignificance.

For a moment I considered the old curvature of space concept. Could we have somehow doubled back-completing a mystic circle? Was that old Sol up there burning through our green shield? What a laugh that would be! The mental giants of our times backtracking and circling like a tenderfoot lost in the woods on Lake Minnetonka.

Mac cut off the transmitter reluctantly, but he said, "Yeah, I guess I see what you mean, skipper." Larson got to his feet and paced the crowded wedge of space, punching a fist into his other hand with meaty slaps.

He stopped and listened to the soft muttering of the speaker and shook his head. "It makes no sense. It's impossible. Utterly impossible!"

The man's voice from the planet im. placably continued repeating the mes-sage-no trace of an accent, nothing to suggest an alien origin in its tone, pitch or enunciation.

Perhaps that's what threw Larson so hard. If there had been the faintest taint of other worldliness about it, I think he'd have hauled stakes and gotten us out of there. But the song of the siren was too powerful-the irresistable mental image of a fellow human out here in the bottom of space was salt in the bleeding wounds of Larson's loneliness.

He stared out where the planet must be, some million niles before us. Suddenly the tenseness relaxed from his face and he got the damndest expression of mixed incredulity, hopefulness and sorrow. Tears began welling from his eyes and streaming down the rugged contours of his cheeks.

It didn't add. Nor could I reason a
motive for his laconic command：＂In－ tersection orbit，Mr．Hulbert．We＇ll take her down，＂he said quietly．That was all．He hunched over the control board and moved things according to Mac＇s computations．

SOON I COULD make out the plan－ et．We came in from an obtuse angle with its sun，so it showed first as a crescent of pale，green silver． Then it filled the viewing dome，and Nac began working the homing equip－ neent．＂May I acknowledge their mes－ sage now，skipper？＂

Larson shook his head with com－ pressed lips．
＂But if we are going in anyway－＂ Mac argued．
＂No！＂Larson exploded．Then his voice softened．＂I think I know the mystery of the voice，＂he said．＂It must be，it must be！But if it isn＇t－ if I＇m wrong－God alone knows．We must chance it．I don＇t want to know differently－until it＇s too late．＂

This was just real great．Larson had some fantastic notion，and he wanted it to be true so dammed badly that he was taking us into blind jeopardy when we had the means to probe it first． Real scientific．that．

Humans！Men．and their so－called sense of reason！Larson was a crown－ ing erample of the sloppy－hearted thing I vas fleeing when I embarked on this joy－ride，and now it would probably be my undoing．

We were homing in on the transmis－ sion from＂．New Columbia＂．easing down into the atmosplere，and now clouds and land and water formations took shape．The beam led us to the sunlit tim of dawn，and suddenly we were hovering orer a grat forest slit at intervals with streaks of glittering blue that looked like del．wide rivers．

Now Mac tonched at switch．and the CW wisile gave us a tight ando heam in follow to the source of the signa！． Jarson switched to the mero landing controls to ride in like a jet lincr un
the Frisco－Shanghai run．We slanted gently down until the forest became trees，and the little blue－green splotch－ es were lush，grassy meadows．

And there was the tower，and the low buildings－and the spaceship！

Something happened to me inside when I saw that．It was a kind of tremolo feeling，like a note in a new symphony，a note that springs frec and alone，wavering uncertainly，and you den＇t know which way it mill turn．

In seconds that seemed like hours， we were on the ground，the ramp was jammed out and Larson was blunder－ ing down it crying like a baby．

ISTOOD in the port breathing the warm air redolent with exotic new scents and yawped like an idiot，try－ ing to make sense of the huge banner strung a hundred yards across one whole side of the little village．The banner read：

## WELCOME，HANS：WELCOME ALBERT E． <br> WE KNEW YOU WERE COM－ ING，SO—

And near the center of the banner was the largest chocolate cake，or fac－ simile thereof，in all creation．It must have been ten feet high and twenty feet in diameter．

But Hans Larson wasn＇t amused by the cosmic gag．He galloped off that gang－plank like a love－sick gorilla．And I＇m a comet＇s uncle if Tina wasn＇t there，racing out to meet him．Larson had guessed the truth，and no wonder he hadn＇t had the guts to test it be－ forehand！

By the time I got down，out and nuer to where they were all wapped up mingling tears．I had it pretty well doned out myself．

I don＇t know why we had figured that all progress and improvement in inter：tellar flight would cease just be－ cause we lad left earih．The cternal， ［ Tirn Te Page $: \mathbf{7}$ ］


The General had an unpleasant vision as he watched this model in oparation...

Was it a wild talent that MacReedy had, or was it just prophetic genius that led him to figure out new, improved ordnance weapons and make models of them - before the armed forces had them? Whichever it was, MacReedy was both valuable and dangerous - and when the general saw MacReedy's final figure, the weapons following the mobile rocket A-missile launcher...

# THE FINAL FIGURE 

Novelet of the Day After Tomorrow
by Sam Merwin, Jr.
(illustrated by Paul Orban)


HE GENERAL was in mufti. He stood briefly within the entrance of Models and Miniatures, Inc., feeling a mild envy of the civilians who brushed past him, coming and going. They looked so easy, so relaxed, so casual in posture and dress. He was wistfully aware of the West Point ramrod that was his spine, the razor-edged bandbox neatness of his banker's grey suit, the Herbert Hoover four-squareness of his homburg, the stiff symmetry of his dark-blue fore-in-hand.

He found compensation in visualizing some of these casual civilians in uniform-then shuddered, and moved on into the shop, poise and assurance restored.

Save for the display-counters and
wall-cases, the shop was softly lighted. And although it was well filled with customers and lookers of all ages thero was about it the hushed quality of a library-or a chapel. Even the children talked softly as they pointed at and discussed this 100-gauge English locomotive or that working jet-model of a Vought-Chance Cutlass. They wero well-aware of being in sight of wish and dream-fulfillment.
He moved slowly toward the rear of the shop, past the glass counters that displayed gaily-painted models of carriages, coaches and early automobiles; past the fire-engines in red and gold; past the railroads; past the planes and past the tiny ships-from Phoenician galleys and Viking vessels with gaudily-decorative sails and shields to the latest bizarre-decked atomic aircraft carrier.

He stood in front of the miniature soldiers and, for a happy moment, re-
captured the glamor of parades and gay uniforms that had beckoned him into a career whose color and bandmusic had long since been worn off by the nerve-wracking tragedy of battle and the endless. ulcerating paper-work of peace.

Busman's koliday, he thought. Sailors in a rowboat in Central Park. And he was glad he had not worn his uniform.
Each miniature-soldier manufacturer had a glass shelf to his own wares, labeled with a white-cardboard rectangle upon which his name had been neatly brushed with India ink. Here were the comparatively rude Britains, mass-produced, work-horses of toy armies throughout the Western World since before his own boyhood.

Here were the heavy and magnificent Courtleys, specializing in medieval knights and men-at-arms, beautifully caparisoned in all the colors of the rainbow. Here were the Barker Napoleonics, the one-inch Staddens, the incredible half-inch Emery Penn-insulars-each a costly little work of art that defied the enlarging of a magnifying glass. Here were Comets in khaki and grey, perfect models of the guns, tanks and trucks of America, England and Soviet Russia.

To his left along the counter a chunky blond citizen, with wide cheekbones and a faint Slavic accent, was discussing a sale with the clerk. The general was only subconsciously aware of him as he moved in that direction, marveling a little at the painstaking craftsmanship, the endless hours of ese-destroying labor that had produced such microscopic perfection-as well as at some of the follies with which men had attired themselves in the name of martial glory.

He recalled having read of an order, jissited at the time of the Mexican War, that the collars of all officers in the Unted Siates Army should rise to the tips of the eats. It was searcely sur-
prising, he thought, that the Seminoles -clad virtually in nothing at allshould have been able to stalemate an army thus uniformed in the steaming swamps of Florida.
"They're great, aren't they?"
The voice came from a lower level, and the General looked down to meet the excited blue eyes of a curly-haired male moppet who could scarcely have been more than twelve. There was an aura of friendliness about the leather-jacketed-and-corduroyed youngster. a sharing of manifest interest, that pierced the hide of the old soldier.

He smiled back and said, "Quite wonderful," and was briefly afraid his words had been too condescending. But the quick answering smile on the youngster's face revealed that he had said the right thing.

He followed the lad's rapt gaze to a shelf he had not yet studied. The name on its cardboard label read MacReedy and as soon as he saw the tiny figures it supported, his interest became focused upon it to the exclusion of all other shelves and their fascinating displays.

MacReedy was very evidently a specialist. His subject was American soldiers, with its chief emphasis on artillery-from early Colonial times to the present. As one of the highestranking officers in the Ordnance Department of the United States Army, the General's critical interest was aroused.

Here were the demi-culverins of the Manhattan Dutch, the brass fieldpieces and mortars of the French wars and the Revolution, the light horse artillery cannon of the Mexican and Civil Wars, along with pear-shaped Dahlgren and Parrot siege-guns, each piece with its crew of aimers, loaders, rammers and ammunition bearers.

Here were the crowbar-like dynamite guns that protected New York and Eoston and Baltimore against tireatened British invasion during the

Newfoundland fisheries disputes, back in the 1880's; and the complex disappearing cannon that followed them. Here was the old standard three-inch fieldpiece on which the General had cut his own eyeteeth; here the French 75 and 155, long and short, and the mammoth railway guns of World War One. Here was even a model of the postwar American 75-the ill-fated cannon that had proved so accurate on the firing-range, and so utterly useless after a half-mile over a bumpy road.

Here were the weapons of World War two, from M-7 105 self-propelled howitzer to the 240 -millimetre tractorborne cannon. And here were more recent weapons, the 120 -millimetre radar-aimed anti-aircraft cannon; its newer automatic 75 -millimetre cousin; the new 90 -millimetre turret-mount for the Walker Bulldog, the 105 -gpf in the turret of its new heavy tank.

THE GENERAL felt a stir of alarm. There had been a leak somewhere; release on this model was not scheduled for another month. He would have to report it, of course. Then he shrugged, inwardly. Leak or not there was small cause for alarm; They must long-since have managed to scrounge test-run photographs, if not copies of the blueprints themselves.

Still, a leak was bad business with the country so precariously balanced in a combustible world-situation. He looked at the next weapon, the last in the line.

And froze...
Here was the XT-101. with its rearmounted turret and twin dual-purpose automatic 75 -millimetre cannon. Here was a weapon, complete, that had not been completed in actuality-there was trouble with the turret, of course, there always was...

It couldn't be-but it was. The General discovered that his mouth had slackened in surprise; he closed it firmly. He eyed the turret of the miniature, noted how the automatic rangefinding devices, that were causing
trouble at Aberdeen, were incorporated into the turret itself, in a neat armored sheath.

He thought, Lord! I wonder if tha,'s the ansiwer... Then he thought that, if it were, the whole world would soon know it.
"A honey, isn't it?" said the curlyheaded lad. He added, wistfully, "It costs twelve dollars and eighty-six cents, with tax."
"It's a honey, all right," said the General automaticalls: Actually, he was appalled-a possibly decisive weapon on sale to all and sundry for twelve dollars and eighty-six cents! Of course the intricate inncr workings weren't there. But They knew enough about radar and automatic cannon to be able to figure it out from the model.

The General took direct action. He went to the clerk and said, "How many have you?" pointing to the subject of his question.
"Neat-periect workmanship," said the clerk, donning his selling clothes.
"How many?" the General repeated.
"Only the one in the case left," the clerk replied. "I just sold the last one in stock a moment ago. We've only had four delivered so far."
"I'll take it," said the General in a fever of impatience. He had to get it out of public view at once-although he had a sick sensation of already being too late. He recalled the Slavic appearance, the accent of the man who had made the last purchase.

When the clerk had wrapped it up, and he had paid for it, the General asked to see the manager, who proved to be a pleasantly tweedy individual. He produced his card and said, "I'm afraid this man MacReedy has violated security-regulations. Where else is his stuff marketed?"

The manager's expression was not friendly. He said, "Mr. MacReedy's miniatures are marketed nowhere else; he has an exclusive contract with us." He evidently resented the General's gruff approach as much as the General
resented not being addressed by title.
Civilians! the General thought. The dumned fools don't matcristand-they haicn't the slightest idea...

Aloud he said, "Where can I find Mr. MacReedy? I'm afraid I'm going to have to talk to him."
"Uncle Angus? He lives next door. I'm going home now- I can show you."

The General had forgotten the male moppet. He looked down in surprise, then up at the manager, who said, "It's quite true. This is Toby. He belps Mr. MacReedy; he's a collector himself in a small way."

The General took Toby back with him to the hotel. He knew he should be burning up the wires to Washington with news of his horrendous discovery, but somehors he wanted to see it through himself-as far as he was able. Besides, there were certain puzzling facets that would scarcely look plausible in the dehydrated prose of an official report to Security.

It smacked almost of the supernatural. Eycing his small guest, who was happpily and rather messily devouring a picce of French pastry, accompanied by a bottle of ginger-ale -sent up by room service-the Genefal suppressed a chill that rose from his coccyx to bis cervical vertcbrae.

Like most veteran men of action, the General did not decry the super-natural-such decrying was the property of armchair logicians. In the course of his long career he had seen too many things that defied logic or logical explanation. He said, "Ready to take off, Toby?"
"Yes, sir," said the lad. He was properly impressed with the General's rank-revealed to him by the assistant manager in the lobby. Then, with a sudden shadoss of anxiety, "You aren't going to arrest Uncle Angus, are you, sir?"

The General managed a chuckle. No sense in getting the lad scared. "No, I just want to talk to him."
"I'll go with you," the latl offered. "Most grownups have a hard time talking to Uncle Angus. Evei dad..." Whatever was his father's problem with the prophetic model-maker remained unstated, as Toby managed to wrap lips and teoth arvund a large final piece of pastry. He then went to the bathroom to wash his hands before they went downstairs, to where the General's car was waiting.


HE SIGHT of the huge olive-drab Cadillac limousine with its two-starred flag and white trimmed and be-fourragered scrgeant - chaulfeur seemed to awe Toby, who lapsed into mere occasional monosyllables during the drive through the late afternoon to his Long Island home. It was as if, since the General was in mufti, the lad had not quite been able to believe in his realityuntil official car and chauffeur offered proof.
This was quite all right with the General, who was desperately trying to rearrange the chaos of his thoughts into some sort of order. He knew h? was being dangeroulsy imaginative for a man in his position. But what if this MacReedy actually could ioresee the future, at least in its military manifestations?

Granting this impossibility, how could the man be used? The General shuddered at the thought of "selling" anyone with such a gift to the Combined Chiefs of Staff-those quieteyed, low-voiced, strictly pragmatic men on whom, perhaps, the future of country and world depended. Even if they by some wild chance accepted the impossibility, he knew full well what would be the tenor of their thoughts-and therefore of their questions.

One of them would be sure to say, "Very well, General, but if we put our planning in the hands of this man-seeking a short route to decisive superiority of armament-how do we know he won't make a mistake, or lead us up the garden path? How do we know he hasn't been planted for this very purpose?"

How did he know? The General decided he didn't. Yet how could any man with such a private power be permitted to exercise his rights of free citizenship? He damned MacReedy, the enemy, the world and himself, and got resettled in his corner of the soft rear seat.

They had left the sun behind them, setting in a dust-pink mist behind the soft-edged towers of Manhattan. By the time they reached Flushing it had begun to snow-big soft flakes whose crystalline dissimilarities were almost visible to the naked eye as they settled against the car windows into wet evanescence. L"p ahead the twin wind-shield-wipers ground them silently and methodically into wet-rimmed circle segments.
"I hope it lasts," said Toby from his window. "I got a sled for Christmas. I haven't been able to use it."
"You'll get your chance," said the General. Damn it, he wondered, what kind of man was Angus MacReedyif he was a man. Somehow the silent snow, the waning traffic, the oncoming twilight, combined into a sense of ominous portent. It was as if the car were standing still, while a perilous future rushed toward it.
"We turn left at the next trafic light, sir," said Toby.

They turned. They skirted a thinlysettled swampy area on a narrow road, against a background of scrubby pines. The sprawling metropolis might have been on some other continent. some other planet. They met only one car -a long black sedan, that slithered past them on the skiddy road-surface, missing them by inches.

The house where they pulled to a halt at Toby's direction was not large. It had been put up early in the century, and its motif was that of the high-gabled Swiss chalet. Mercifully the snow gave it a touch of quaintness, almost of rightness, despite the absence of lowering alps. Toby pointed to a similar structure about a hundred yards further down the road. "That's where I live," he said.

MacREEDY answered the door. He was a tall, angular man with a long, angular face-from which small blue eyes peered alertly. He wore a grey glen-plaid reefer that was buttoned wrong, a dark blue-flannel shirt and covert slacks that needed a press. He said, "Hello, Toby-you've brought company, I see."
"This is General Wales," said the lad very politely. "General-Uncle Angus."

The General had a ridiculous fugitive memory-"Alice, mutton-mutton, Alice." He shook hands with the model-maker.
"Honored, General," said MacReedy. He ushered them into a living room, whose desk and tables and mantel were literally covered with miniature American soldiery. He said, "Sorry the place is such a mess"picking up the morning paper from the carpet beside a worn but comfort-able-looking easy-chair-"but I wasn't expecting callers. I just had to boot out some sort of a mad Russian."
"What!" The general didn't mean to bark but couldn't help it.

MacReedy grinned quietly and said, "This fellow said he was assistant milifary attache or something. Offered me all kinds of money to do some work for him."
"What did he look lite?" the General asked.

MacReedy. filling a corn-cob pipe that appeared to be iear the close of its short liie, paused to say, "Like nothing special-not nearly as distin-
guished as you, General. Blond, chunky fellow with a bit of accent. Not a lot, but Enough."

The General exchanged glances with Toby. He knew, without asking, that the boy was thinking the same as himself; it was the man who had bought the XT-101 model in the shop earlier that afternoon.

MacReedy got his pipe going and said through a small blue cloud of smoke, "How does the exhibit look, Toby? Have they got it right?"
"Pretty good, Uncle Angus," said the lad seriously. "They got the Mexican and Black Hawk War units mixed up, but I guess we can't blame them for that."
"I guess we can't," said MacReedy. He turned to the General, added, "Now, sir, what can I do for you? Or need I ask?"
"I have a hunch you know pretty well what I'm after," said the General. "My predecessor must have given you some idea."
"I've been afraid of this," said MacRecdy with a sigh. "It's what I deserve for trying to show off to Toby."
"I don't understand," sadd the General.
"I was trying to show Toby how good I was," he said, ruifling the boy's curly hair. "Then, when I got that seventy-fise AA-gun doped out ahead of time-and it proved correct-I had to go one step further. I should never have let the model out of the house."
"I'd like to sce your workshop," said the General.

Angus MacReedy removed his pipe and said, "Come along."

THE BASEMENT ran the length and width of the house. Although furnace and fuel-storage were walled off in a separate room at one end it still provided a sizable workroom, enough for three long wooden tables. On one of them MacReedy carved his tiny figures and cannon and vehicie parts from soiid chunks of lead. An-
other was used for painting, a third for drying.

On this third table were a hall-dozen more of the XT-101's-along with a group of Confederate cannoneers and their field-pieces, some Indians, a small group of knights in armor, and what appeared to be Roman Legionaries.

The General pointed to these and said, "I didn't know you went in for them. I thought you were strictly an American specialist."

MacReedy puffed at his pipe, then said, "I'm doing these for Toby-in return for his services as delivery boy and all-around helper. I'm trying to teach him history in reverse."
"Odd concept," said the General.
"It works-doesn't it, Toby?" MacReedy said to the lad.
"Uncle Angus says it will help me when I take history in college," Toby said stoutly. "This is King Henry the Fifth at Agincourt-just like Sir Lawrence Olivier in the movie. And this is Genghis Khan. And here is Tamerlaine, and Charles Martel, and Caesar..."
"I see," said the General. He was a little overwhelmed at so much evidence of one man's individual craftsmanship and industry. He eyed the XT-101's with malevolent interest, then studied a nearly-finished weapon on the carving table. It looked like...

It was! One of the just-conceived, seli-reloading rocket-launchers on armored mobile carriage with amphibigus tractor-treads. He said, his voice dry and tight, "Where'd you get this, MacReeciy?"

MacReedy wandered over to stand beside him. He said, "I didn't get it anywhere; it just seems like the logical next step in ordnance, General. I've had pretty good luck in the past, f:guring things out this way. I had the Sherman tank plotted back in nine-teen-forty-just before I was drafted. I hadin't dared trust my fataches till

I sax my ficst one two years later at Pine Camp."
"You were in the Army?"
"Six years," said MacReedy. "Two years here in camp and Oificer's Candidate School, then two abroadSicily, Anzio and the Rhone Valley. I stopped a piece of shell near Lyon, and put in the rest of my time in hospital."
"Rough," said the General though he had neither the time nor the interest for sympathy. "Tell me how you 'figure' these things out. The Sherman tank, if you wish."

MacRcedy wagged his head modestly. "It wasn't too difficult, once I'd seen the General Grant. That one obviously wouldn't do; it was too high, needed a full-pivot turret. Yet the basic design was there-anyone who'd thought about it could have done the same. But it was a pleasant shock to learn I'd been right."
"I see," said the General. "And you did the others by the same processand you're always right?"
"Not always," replied MacReedy. "I fluffed badly on the atomic cannon. I expected a longer barrel for greater muzzle-velocity and range; here, I'll show you." He led the way to a dusty wall sheli where imperiect and broken models crowded together. There was the A-cannon-not as it had appeared, but as the General knew it was going to look in two years, when certain needed changes were made.

He said, "An understandable error. U'nfortunately, mobility had to be considered." He paused. looked MacReedy straight in the eye. "I hope you didn't show any of this to your-previous visitor."

MacReedy laughed. "Hardly," he replied. "I'm American, never fear. I'm just one of the lucky few who has beea able to make a good living out of my hobby; I hase no axes to grind."
"We may have an ase to grind with
you," said the Gencral with a hint of grimness. The rochet-launcher and the improved A -gan were like the one-tive punch of a good heavyweight-hitter. He went bac! to the. XT-101, sad, "About this twin-mount tank-how'd you figure we'd mount the automatic machinery outside the turret?"
"That wasn't too difficult-if I'm right; and I gather I am," said MacReedy. "There's simply too much stuff to put inside a tank-turret; you've got to mount it outs:de. And that means plenty of protection, which means an extra armored sleeve. So..."

## 3



HE GENERAL said, "MacReedy, winy are you showing me this: I could be an imposter, a spy."
"With that official limousine?" the mod-el-maker countered. "I doubt it. Besides, Toby vouches for you.
"Risky:" said the General.
"Besides," said MacReedy with the suggestion of a smile, "I've seen your picture in Lije magazine." He paused, added. "Aiter all, in my humble way I'm a bit of an ordnance nut myself."
"I don't believe you," said the General flatly- "I mean about working these things out through logic and guesses. But however yout do it. surely you can appreciate that you're much too dangerous to be walking arouad loose. Especially since They know about yoit. I'm afraid I'm going to have to take you back with me."
"Nothing doing," said MacReedy. "I can take care of myseli. Besides, this is my home. I like it here."
"You're being close to treasonable," said the General.
"Sot I-you are." came the incredible reply. "You, no: I, ate attenpting
to deny a citizen his rights under the Constitution."
"Damn it, man!" the General backpedaled quickly. "Cann't you understand? Suppose Thcy got hold of you- Tincy'd have you dishing up our innermost secrets to them ahead of time. I don't need to tell you what that could mean in the present world situation."
"You don't, General," said MacReedy. "Iut I don't think They'd get much out of me-much that was useful, I mean. I can't think clearly undei drugs or torture; I'd be more of a menace than a he!p. I explained that to my visitor beíore you came. He seemed to believe me."
"Maybe he did," said the baffled General, "but don't bet on his superiors. You've been an Army officer, MacReedy; I can have you called back into service."
"With a permanent medical discharge?" MacReety countered.

The General sighed. He knew when he was beaten. He said, "You'll have to stand for a guard then-twenty-four hours. We'll keep them out of sight as n.uch as possible." He wished the whole business were rationally explicable to his own superiors. As it was he knew his hands were tied when it came to drastic action.
"I suppose it's necessary," said MacReedy sadly, but not deiiantly; "I should never have tried to show oil."
"It's too late for that sort of thing," said the General. "I'm going to have to take some of your models with me-it's too late to do much about the new tank, but I'll have to have the roctet-launcher and the Agun. And Ill want your promise not to indulge in any more such experiments except as I request."
"That I am glad to give you," said MacReedy and there was no doubting the sincerity of his words.
"Inl pay you for them," oifered the Gencel.
"Of course," replied the modelmaker; "my name isn't MacReedy for nothing."

As he handed over a couple of hundred dollars the General found himself almost liking the man. Danin these screabalts, he thought. He wondered when he was going to wake up and find it hadn't happened. It couldn't be happening, any of it. But the perilous-ly-perfect models, of weapons that were yet to be, felt terribly real to his touch.

He said, "Toby, run upstairs and tell Sergeant Riley to come down here and take some stuff out to the car." And, when the boy was gone, "MacReciy, will you do some work for us?"
"Of course," said the other. " 4 man gets feeling a bit ueeless muking toy soldiers in times like these."
"The pay won't be much..." the Genera: began.
"I can afford it," said MacReedy with the unexpected generosity of the true Scotsman. "What do you want me to do?"
"They have a new weapon building," said the General. "All we've got are a few spy-photographs-not very good, I'm airaid."
"What sort of weapon?" the modelmaker asked.
"That's just it-we don't know," replied the General. "I'm going to send you what we have on it tomorrow; I'm hoping you can give us a line on its purpose." He paused, added grimly, "As it is we don't know how to meet it. Wie haven't an inkling. It's given the Chief a whole new patch of grey haire:"
"IIl do what I can," said MacReedy. "But don't expect the moon."
"All I want is the nature and purpose of that weapon-if it is a weapon," was the Gencral's reply. Then Toby and Sergeant Riley came clumping down the stairs and the conference nas at an end.

Before he left the General gave Toby five doliars. "That's for bring-
ing me bere," he toid the lad. "Yuull be seeing me syain."
"Yes, sir," said Toby. Hie didn't sound at all surprised.

W
HEN IEE ent back in the car alonc, the gencral cunted the models on the seat beside him-one rocketlauncher, one A-zun. lie said, "Riley, how are we fixed for gas?"
"Preity quod, sir," came the repl! "Ve can male the city ulay, sir."
"ifill up beiore you get there," the General told him. "Weare going right cn through to liashington tonight."
"But, sir, I havent notified the motur pool at Govemor's Island," the Sergeant protested.
"Damin the motor pool!" the Gencial exploded. "Ill take care of them. Now get going: we've got a long drive ahead."

The big car gathered speed through the thickering night snow.

The General slept most of the way, after he and the sergeant stopped ior dinner at a Howard Johnson restaurant on Route One, just north of New Bruaswich. After a shower, a change into uniform and breakiast, he was in suind operation-sape when he reached his cifice at the Pentagon the next morning.

He arranged for a round-the-clock giard of Angus MacReedy's house, ordered investigation of the modelmaker's record, had a copy of the complete file on the poisible encmy weapon forviarded to Long Island by special mesernger. Then he summoned a speci:il meeting of top-echelon Ordnance brass and produced the models of the XT-101, the self-reloading rockct launcher and the improved A-gun.

If such a liroadway-Hollywood term as sensationel cou'd be used in any connection with a Pentagon conierence, the General's mecting with his collcafues might have qualified for it. Experts were quick to understand the practicability of the models, quick to recast their plans accordingly.

Withon the wes?, he vas summoned before the Combined Chicts and commeaded by that bosy for his clearsimbunces in cetting Goraiain hats of the most bafling order. There was talk of a thind stir and appointment a. Chicf of Ordnarce once the some-what-dodering incumbent was retired, come June. He was a sort of brownhaired white-haired boy. He was intervicued by representatios of three mational newiwecklies.

Thou, he wore his new honors gracciully, actually the General was thoroughy uncomiortable. Ile was far more concerned with the saip:y of the country than with his own advancement; and his ego was much too solid-ly-based to pemit him enjoyment of honors that were not rigitifilly his.

The vorst of it wats that he couldn't explain. If he told his superiors that his "inspirations" came from the intuitive head of a toy-soldier mal:er on Long Island who even denied his intuition in the name of logic-not only would his own career be pemanently damaged. but the value of Mackecty's models would be suspected. So much so that they might be disregarded entire-ly-thus retying the Gordian knots that were stymying the armament progran.

MacRcedy's iile was laid on his desk one morning by a plump WAC secretary: It was exactly as the modelmaker had stated: he was Americanborn, only child of a Scottish engineer and a German-American woman from Wisconsin. He held an engineering degree from a small polytechnical institute in upstaie New York.

His war-record was exemplary. At the time of his wound in Central France, MacReedy had been a captain in the Combat Engineers, wearer of a silver star won at Anzio. There was a complete medical-report on the wound and treatment, whose technical jargon was too much for the General. All he could gather was that it was a headwound and brain injury, which had
rendered the model-maker unfit for Army duty.

He took the report to his opposite number in the Medical Corps, a man whose abilities in brain-surgery were mentioned in hushed voices at Johns Hopkins. Over a highball he told the whole story for the first time, hoping it wouldn't be received with hoots.

It wasn't. The white-haired surgeon looked long and meditatively at his drink. Then he said, "Kermit, I can't begin to account for it; I have mudded around in the human brain enough to know that what we like to call our scientific knowledge is at best empirical. You say this man had his ability be fore he was wounded?".
"He built a Sherman $\tan ^{k}$ two years befoce we did," said the General. "Yet he claims the whole process is purely logical."
"Logic!" exclaimed the brain-man with a scorn that matched the General's own on the subject. "Logic is hindsight, Kermit. When our brains, by some intuitive process of progressire thought, reach a desired point, our egos reach backward to give the process a sort of order we call logic. Actually we seldom know how we get where we do; but we're too damned conceited to admit it.
"What in hell do we know about the brain?" he went on. "I knew a perfectly healthy young girl once, who was lilled when she was standing beside her horse-the horse sneezed, jerked his head up, and jolted the side oi her jaw. Yet back in seventeen eighty-one, when Arnold ordered the massacre at Fort Griswold, one old rebel was bayonetted, had his skull smashed open so that his brains were oozing out on the ground. He recovered and lived for forty years afterward, sane as you please. And they didn't have fellows like me, not then. Ii they had, he'd probably have died on the operating table."
"In other words you don't know," said the Genemal.
"I don't know, Kermit," replied the other. "Another drink?"

THE NEXT day the international situation showed signs of serious deterioration, and the General took a plane to New York. All the way up he thought of something else the SurgeonGeneral had saic' to him- "One thing I have learned. It isn't exactly in my province, but I've run into it enough to make an observation.
"Whenever I've met anyone with what might be called a special giftpsychic or what have you-I've found them scared to death of it. Damned if I know why..."

He ruminated a little before continuing. "You'd think they'd be de-lighted-bitt they aren't. They either run to religion, and try to drown it in ritual-or they try to explain it away by some rationalization. Like your friend."
"Then you're willing to accept the fact he has a supernatural gift?" the General asked.

The brain-man shrugged and said, "Supernatural-supernormal-he's got something, if what you tell me is true. Can you think of a better 'ole?"
4
 HES HE was driven up to the Long Island chalet early that afternoon, the General was pleased to see a command car parked unobtrusively off the road, a sentry sitting in an impromptu sentry-box made of pine bows, that commanded a good view of the approaches. At least, he thought, They wouldn't find MacReedy easy to get at. According to the reports he had seen there had been no further attempts.

Toby opened the door. He said, "Hello, General, this is fine. We were guing to send you a message tonisht."

The General shook hands and said, "Progress?" and, when the boy nodded excitedly, "Why aren't you in school?"
"It's after three o'clock," was the devastating reply, as Toby led him toward the cellar stairs. The General wondered briefly how much he had managed to forget in his fifty-two years.

Angus MacReedy was working at his carving table with a blow-up of the spy-pictures tacked to the cellar wall in iront of him, a pile of roughsketched plans on the table. He rose and said, "I was just doing a little polishing, General. But you hit it about r', ht:"
"Guod," said the General. "Got it solved?"
"I think so." said the model-maker. "Take a look."

It was an eeric-looking item-a sort of stove-pipe mounted on a dise, surrounded by a flock of flying buttresses. Frowning the General peered at it, then looked at the blow-ups on the walls. From the correct angle, the similarity was ominously unmistakable. He said. "What in heil is it, Captain?"

Nackeedy grinned. "Looks weird, doesn't it? it lad me stumped ior the better part of a week. Theres only one thing it could be and that's what it is. Leok..."

He picked up a sort of miniature torpedo from the work-iable, dropped it dowa tie somepipe The thing worked bite a tiench-mortar. Some spring in the base of the tube scrit the
 the opposite wall and drop to the floor.
"it's a mobile rocket-launcher." lie said needilessly. "I'd liay ndds it can be used for atonic warluaas."
"Good Lord!" cried the General. His mind was in a racioy momil. fibe problem with the Nesi $\quad-1$ and $1-2$
v:eapons during World War Two had been the immobiiity of their lausching platiorms. If They had managed to get around it...

He thought of an insuperable obstac!e, said, "But what about backblast? Don't tell me they've found a metal able to stand up under the heat of launching."
"I doubt it," replied MacReedy seriously. "They use this barrel to give her a boost like a trench-mortal shell. My hunch is the rocket doesn't fire until she's well off the ground."
"Is it accurate?" the General asked, thunderstruck.
"Is a trench-mo-tar accurate:" the model-maker countered. "Ask anybody who's been in Korea."

It was a wallop for the General. A.tomic rocket-launchers, mobile rock-et-launchers that could function as artillery, could outrange the A-gun perhaps by hundreds of miles. And if the missiles thus fircd could be guidedhe could see no reason why not-the A-xun was already obsolete.

He sat down on a packing box and mopped his brow although the cellar was far from hot. He said and his voice was unsteady, "Thanks, MacReedy, I think maybe you have done it."
"I think so." said the model-maker. He wasn't boasting, but he was sure of hinclf. "You want to take it along with you? It should be quite simple to make. Tive got a few improvements ouer Their supports, I think."
"If it's the last thing I do," said the Gencral. rising. "l'm going to see you set creuit for what yuive done."

Mackedy mate a gesture of dismisal. "Don't lat it bother you, General," he said. "I He my wotk. Maybe you could antinge for me to make sone mojels for the War Collge."
"Hell, why not de Sinithsonian?" said the Gencral. "Wly not both? We ownt to have a histrical wenanceexhibit smowhere And juate the man. no dombt ayut it."

A: Le lett wath int pacious modei

MacReedy asked, "By the way, General, what do you want me to work on next?"

The General hesitated, then said, "Follow your hunches-logic if you will. Let's see what the next weapon after this one is going to be. You've been ahead of us the rest of the way."
"I'll see what I can do," said MacReedy with his quiet smile. "Let me know how things come out."
"That I will," said the General. Toby walked with him to the car and the General gave him another five dollars. He wished he could do something more for both of them; but at the moment it was out of the question.

IT WAS ALMOST six months before the General got back to the Long Island chalet. Thanks to his now fullyestablished reputation as an inventive genius, he was able to get a full speed ahead order on the new-type mobile rocket-launcher. MacReedy's improvements were valid, and the Department experts came up with further simplifications. By the time they were ready to go into production they actually had the weapon self-propelled, were well ahead of Them on mobility, range and accuracy. It promised to be a military revolution.

Then the General had to make a flying trip around the world-to visit American military installations in Western Europe, in Italy and Spain, in Africa, Formosa, Japan and Korea. He got back to Washington. a thoroughly tired man, and walled into both his promised third star and the Chiefship of the Department. A!so into an international situation worse than any since September, 1939when the Nazis invaded Poland.

They were pushing aggressively in both Europe and Asia, pushing with an arrogance that suggested they felt they could win in a walk if the free nations of the world offered laigescale military defiance. Rumors of a tervible secret weapon were being
bruited about-not only in hush-hush military circles but in the public prinis as well. One picture magazine of national circulation had actually published an article stating that They had mastered pushbutton wariare.

The General, and the Combined Chiefs made a hurried and secret trip to Aberdeen the day after his return. There, on the proving ground, they watched a big transport-plane land on a makeshift airstrip. They saw a small group of soldiers unload from the plane an odd-looking tractor-mounted weapon that resembled an immense stovepipe with certain refinements.

They saw a lean sausage of a rocket rolled into a door near the base of the tube, watched a trifle nervously while it was elevated almost vertically. An order was barked, a button was pushed-and the rocket rose rapidly from the tube with a dullish report, rose to a height of perhaps a hundred yards.

Then, suddenly, its tail blossomed smoke and flame; it rose with a new lease on life, to disappear into the heavens, leaving a trail of smoke behind it. Pointing to a prefabricated building that stood alone, a mile away, the General said, "Watch that target, gentlemen," and lifted his field glasscs to his eyes.

A minute later-fifty-eight scconds was the exact time-the structure was suddenly obliterated by a tremendous cxplosion. The General sighed and said quieny, "That was TNT. We have a stoc!:pile of atomic weapons ready:"
"But the accuracy!" exclaimed a weathered full adniral. "ITith the wind and the earth's rotation to consid..." He hesitated, then said, "Oh, a guided missile."

The General nodded, and said, "We can put batteries of these new missilelaunchers, completly-mobile and with atomic heads, anywhere in the world withia twanty-four hours by plane. They have a reasonably effective range of small targets of just over
two hundred miles-with air-guidance, of course, over target. Gentemen, I think They are in for a surprisc."

They got it two days later-in another special test of the rew weapon. The Geineral didn't even bother to watch it. His attention was focussed upon a stocky blond man who wore the gaudy shoulder-boards of a lieutenant colonel, and was present as assistant military-attache and qualified observer. His face remained impassive, save for a slight twitch of the lips, when the target was obliterated.

Which was enough to satisfy the General.

DFNIED a sure-thing victory Thcy were forced to call oil Thicir war --with violent internal results. It became quickly evident that They were going to be busy for a long time keeping order within their own boundaries. The international situation became easier and happier than at any time since Locarno.

The General, who was due shortly to receive his fourth star, played an active role in the military portion of the peace-making. He had little time even to think of Angus MacReedy and little Toby and the miracle-workroom on Long İland. When he did think of them it was with an inner warnth that was almost devout. with a resolve to see that the model-maker received a saisfactory remard.

Then one morning, while skimming through a stack of reports, a phrase caught his eye. It read-
.and in accord with current jiscal retrenchment-policies, all personnel on special duty were called in for terminal assignments. These included...
The report was from Second District HQ at Governor's Island. With a sinking sensation he scanned the list. There it was-special sentry-detail to guard house of Captain Angus MacReedy (ret). He picked up a tele-
phone and called Governor's Island direct.

Yes, the detail had been withdrawn more then a week carlier: . No, there had been no repurt of trouble... Hold on, there was something in the morning paper...

The General made it in less than two hours. Angus MacReedy had been shot in the back of his head the previous evening, while building model soldiers in his cellar workrgom. $\Lambda$ boy who lived nexat door and heard the shot while on his way to pay MacRecdy a visit, had seen the murderer drive away in a black sedan. He had given the alarm and local constabulary had picked up the trail and given chase. Ignoring a red light, their quarry had been lilled when his sedan was hit by a truck. He had no identification on him but appeared to be a stecky biond man of about forty. An alien pisto!, recently discharged, had been found in the wreckage.

The General and Toby stood alone in the strangely empty workroom. Only an ugly, dark stain on the floor remained to mark the recent violence that had occurred there. The General looked at the table, then at the boy. He said, "Toby, do you know what your Uncle Angus was working on recently?" He feit a little ashamed thus to try to pick the brains of a murdered man through a child.
"He'd been pretty busy with orders from the shop," said Toby thoughtfully. "And he'd just finished that." He nodded toward an unpainted lead miniature on the work-table.

The General looked at it closely, and felt the blood drain from his face. He had told MacReedy to try to work out the next weapon after the guidedmissile launcher...
"Are you sick, General?" Toby asked, breaking in on his abstraction. "You mustn't take it so hard, sir."
"I'm-all right, Toby," he said. "It's been a bit of a shock, that's all."
"It's been horrible," said Toby, his
voice quite steady. "Uncle Angus was a great inan. I'll never be able to be as great."
"You'll never know till you try," said the General. He thought that They had not forgotten- They had killed him for losing Them Their war. It was up to him, the General, to see that Angus MacReedy's final prophecy proved false.

Well, he had the power now to carry a little weight-thanks to the murdered man. Standing there in the cellar, the General made a vow to see that during his lifetime the peace was kept, to help set up some sort of organization that would keep the peace when he was gone.
"Will it be okay for me to take this?" Toby had picked up the final figure, and was regarding it reverently.
"What? Oh, I don't see why not."
He said goodby to the boy outside
and got into his car for the drive back to the airfield. Hence, he didn't see Toby place it carefully at the end of hundred yards to his house, didn't see Toby carry the unpainted figure the a row of gay little figures that includod Napeleon, Marlborough, Suleiman the Great, Charles XII of Sweden, Henry V, Tamerlaine, Genghis Khan, Charles Martel, Julius Caesar-and newer or perhaps older, figurines of Alexander the Great, Xerxes, Cyrus the Great, Nebuchadnezzar and a trio o. even more primitive conquerors.
"Gee," sald Toby to himself, "I'm sorry Uncle Angus had to be killed. But if he had to be killed, I'm glad he got my historical set just about finished. I can paint this cave-man myself."

A few minutes later his mother called him to supper.


She chose parversity and man-hating as her syndrome!
Don't miss this compalling novelet of a world where ovepyone was a neurotic - by law -and everyone changed his neurosis four times a year!

## THE IRRATIONALS

by milton Lesser
Plus Stories By
JOHN DANELAW
CHARLES DYE
bryce walton
SCIENCE
FICTION
QUARTERLY


# The Lobby 

(continued from page 8)
story of the American who was set upon by hoodlums in Paris; he backed against a wall, raised his fist, and sent his attackers into panic by shouting, "Je sris .Yick Carter!"

Can you tell a viable character, or caricature, whenever you see one? No, not always. A story may impress you despite, rather than because of, the characters; even if thousands hail a story this year, these same might change their mind a few years hence upon re-examination. It takes time and re-reading to tell whether a character will survive, and an unfavorable or mixed reaction at first report might not be final. Take the novel we ran a couple of issues back; I've had just about every possible kind of comment on that story and on the characters. Some reaciers think the story a classic and the characters immortal; others think the story very good, tut weak in characterization; others think the characters all right, but the story not too interesting; still others say "PU".

I don't know. I read "The Duplicated Man" several more times than many of you, and I still like it. Ten years from nnw-who knows?
We see a great deal of sham "depth" in characters these days, and this kind of phony is almost as irritating as the pure good Hero and sheer black Villyun. This represents, I think, the author's desire and intent to make vivid characters, and demonstrates bis inability to achieve then-in a particular story, at least. But how does a writer delfier the goods?

Sorry, I can't answer that. If I could, I wouldn't tell you nuw; I'd
make a fortune doing it, sirst, then reveal the secret in my memors.

THE AUTHORS, who have striven to write stories you'll remember, this tinue, are:
POUL ANDERSON, who, for my moncy, made the grafle with outstanding novetets such as "The DoubleDyed Villains", and "Sentument. Inc."; he's been making hits cince 1947.

SAM MERLIN, JR., whase first science-fiction appearance was "The Scourge Below" in the October 19.39 issue oi Thrilling Wonder Staries; viho's remembered for his fire editing of this magazine, and nther in the same company's chain, for a number of years; and whose novel, "The House of Many Worlds" has seen both hard-cover and pocket-magazine reprint.

WINSTON MARKS, who first appeared in the May 1940 isste of linknown, with "Mad Hatter", then in the October 1941 Astounding with "Manic Perverse". He's made a reappearance this year.

ALGIS BUDRYS, whoce two cover storics for Future and Dyramic, "Etand Watch in The Sky", and "Snaii's Pacc", made deínite impressions upon our readers.
ARTHUR PORGES, who, as nearly as I can make out, was first introduced to science fiction readers in the Decenber 1951 issue of IMagasise of Fantasy, with a story eatitlec, "The Rats". I hope you find the predicament of the unwilling professor as amusing as I did.


## CHALLENGE

## by Conrad Pavellas

Dear Mr. Lowndes:
It is more in sorrow than in anger that I comment upon L. Sprague de Camp's "Modern Merlin" in the June issue of Dynamic Science Fiction. Have we not enough mudslingers in this sorry world without intruding that unlovely art into a science fiction publication? de Camp must have culled his little pile of dirt from all the yellow journal stories printed about Theosophy, Madame H. P. Blavatsky and C. W. Leadbeater.

While the rest of the issue was of surprisingly high caliber-and one of the stories, "Never Trust an Intellectual," I consider one of the all-time gems of SF-satire-de Camp's article was a piece of lurid and incongruous journalism. This is the type of thing that went into the oldtime Sunday supplements and was not expected to be accurate.

There seems to be a trend today toward wholesale character assassination; but in de Camp's article it is even more despicable than usual, because the author is safe from lawsuits--his victims are dead. But there are other implications.

To be the type of man who can carelessly dispose of reputations and life worts as he sees fit (to make a saleable articie), to hold them up to scorn; to use semantically leading words to suggest even worse unsaid things-such a man must have a God-complex. He must be a ruthless, nonempathic type who could say, for example, "this fat Russian hoyden..." He must be so sure of his own perfection, physically and morally, that the adage about living in glass houses does not apply to him.

I am not a Theosophist myself, but am acquainted with the movement. I base my opinion of de Camp's article on a studied and carefully-documented answer by a Theosophical group published in answer to
a de Camp diatribe in another science fiction magazine.

The Theosophical movement may have had its trials and errors, but on the conatructive side it broke ground for a vast upsurge of pablic interest in the mental, the metaphysical and-yes, for everyday themes of science fiction stories, such as extra-sensory perception, telekinesis, parallel worlds, wild talents, and all the others. This is building for the future when man will enter into his great mental heritage.

Contrast this with the destructive think ing in de Camp's article, which tears down the work and reputation of others. Evidently his creative faculty has run dry and his groveling for money has led him into this strange morass.

To get on to pleasanter subjects, I am clad to see DSF take its place as a worthwhile SF magazine. I read all in the field and can't get enough. The trimmed edges are nice, except when the cutter comes too close to the type in some places. Tell the pressmen to keep their ink-fountains filled, or else it's the makeready. The cover was more symbolic than crude, the inside illos fair to good except for the stock cuts which are laughable. Keep up the improvements, and congratulations on the stories and articles (but one).
$3028 A$ Hillegass Ave.
Berkefey, California

Before calling on Sir Sprague to buckle on his armor, and sally forth to meet this challenger, let's look at another contestant.

## SECOND CHALLENGE

## by Editors, Theosophical Notes

## Dear Mr. Lowndes:

Wo wish to put in a few words regarding Mr. de Camp's article on "A Modern Merlin," in your June issue. The material on C. W. Leadbeater is guite accurate. Having been engaged for many years, along with others, in trying to straighten out the mess he made of the roputation of Theosophy, we are in a position to know. In fact, we could add quite a few items, though it would do no particular good. We add a hearty "Amen" to de Camp's closing wish.

However, de Camp's introduction to the theme by using the old set of exploded slanders against the moral character of H. P. Blavatsky, founder of the Theosophical Movement, is quite another matter. Leadbeater's psychic, scientific and philosophical lunacies are a matter of record in voluminous books. His moral delinquencies stand over his own signature in confession.

De Camp's statements about him are documented to the hilt. But, as we pointed out in Other Worlds for April, 1953, when one of the most powerful newspapers of America was called into court for making charges of immorality against H. P. Blavatsky, it was unable to meet the issue with a shred of evidence. There is in existence not one suatement by an eye-witness, not one lonesorne affidavit, not one piece of evidence othcr than pure gossip, regarding the alleged sexual immoralities of Madame Blavatsky. But there is in existence an affidavit by two responsible physicians to the effect that she suffered from a physical defect making such deeds impossible, and there exists a long record, in letters by herself and others, and articles by contemporaries, showing a character totally uninterested in sex except when some acquaintance got himself or her work into trouble with it.

The ethics of the modern literary world, we suppose, can include almost anything. The etnics of Theosophy insist, first, that one should not credit any damaging statement against anyone whatsoever without thorougn proof; second, that no such state-ment-true or untrue-should be passed on unless for good reasons; reasons in the interest of the public good, such as warning the innocent of danger from malefactors. de Camp apparently thinks that, in his "exposures" of Madame Blavatsky and others, he is following the second half of the above ethic. But when he uses material factually unsupported, damaging to the reputation of a woman acknowledged as great by many men of standing who did not agree with her teachings, damaging to the reputations and the feelings of those who ally themselves with those teachings, he is merely cashing in on glorified backyard gossip.
His use of facts is curious. He is quite meticulous and accurate in collecting and setting forth such of them as may damage a cause that he dislikes; if they run in the other direction, he sets them aside, and any irresponsible statement that goes his way is regarded as fact. That is accepted practice in politics and religion; but since when is it supposed to be science? The facts about Leadbeater are damaging to Theosophy; de Camp uses them ably. The facts about Blavatsky are not. He uses something else instead, and because of the number of facts that he does assemble in various other lines, unwary readers take it for granted that anything he puts out is equally well based.

We have had occasion over a good many years to give some thought to what makes people tick in the de Camp manner. Why does a fellow like this keep on stubbornly distributing these unfounded stories, even when he has been shown the evidence, and been unable to answer it? It seems to us to derive from a common kind of reaction, though one might have expected de Camp
to be above common reactions. The one in question is that of judging everyuning about somebody by some one point ou which one agrees o1 disagrees viorentiy.
Sacco and Vanzetti were executed, not for the murder they didn't commit, but for political views which those who held their lives in hand considered worse than murder. H. Y. B. has been hanged again and again, not for the moral mfinmities sine didn't have, but for haviag committed Theosophy, which the hidedound among the churches thought slapped God in the face, and which the hidelound in science regarded as striking at every sacred materialistic law recognized by them. Lots of people commit similar offenses in a puny way, and are laughed off; H. P. Blavatsky was really dangerous, and still is; in fact, seems to be getting more so. Hence the repeated attempts to "gel' her on any sort of charge that might seem able to hold water. "What if she is innocent? What she is really guiliy of is wotse anyway." inat seems to be the rationalization, whether it evel reaches the level of consciousness or not.

In other words, we think that such a philosophy as Theosophy is such a selfevident herror to de Cann, that in his book anybody who could believe it is a fool, and anybody who started it necessarily a crook of whom any delinquency is probably. true whether there is any objective evidence for it or not. We can see no other plausible reason for an otherwise admirable citizen to act in this manner.

Sir Sprague now rides forth.

## RESPONSE

## by L. Sprague de Camp

Dear Bob:
As the editors of Theosophical Notes have been so kind as to answer Mr. Pavellas on the subject of my article on Leadbeater, I need not do so.
As for their complaints about my hostility, well, bless their credulous little hearts-I'm not hostile at all, except in the sense that I regard them as legitimate prey. I have devoted some time to the study of magic and occultism. I have, in the last fifteen years, read about ten million words on these subjects. These include over thir-ty-five books on Theosophy: the works of Madame Blavatsky, many biographies of her, and other works by her successors. I have known occultists of various persuasions, have attended their meetings, and have sat at the feet of assorted swamis, yogis, and other shamans.

Having done this, I have been compelled to conclude that the doctrines of my anonymous friends of Theosophical Notes are mistaken, being founded upon a bods of
error, misinterpretation, falsification, hoax, and swindle. I do not regard it as a "selfevident horror" (for the errois ate of a comparatively harmless sort), nor do I dislike EI. P. B., or eren begrucyge her her lovers. Why snculdn't she liave had fun? i should cescrine her as a rivid and piccurestike personality, with many eatertaining and tven endealing quallues. Lut I cont thins ner virtues included honesty, tiuthfumess, or scholarly responsioility. I don't benieve in the transcendental wisdom sie clamea, or in the past history she narraied, wherem she was a persecuted virgin wancerng the rorld in search of occult wisdom, or in the Manatmas with whom sat ciansed to be on familiar terms. And so believing, it seems to me periectly proper to set the record, as 1 see l , straight in my writings.
Nor do I doubt that many piesent-day Theosophists are good peopie, wiatever the criors and frauds of the founder of their faith. But the same might be said of almost any cult, sect, or other body of be-lie-vers in supernatural doctrine.
As for the iamous certificate of sterility, the facts, as nearly es 1 can ascertain, are these: when, late in H. P. B.'s life, her foilower, Alfred Percy Sinnett, undertcok to write her biography, he asked aiout the crippled and short-lived child Yuri who at one time had been taken around Europe by H. P. B., and who Madame's "detractors" said was her child either by Baron Nicholas Mcyenderfi, or by the singer ivetrovich wih whom she was long intimate. H. P. B. said she had adopted the child, and produced a "certificate," signed by a "Dr. Leon Oppenheim" of Wuerzbury, stating that she could not bear a child because of a tipped womb.
Now, in the first place this is nonsense, medically speaking; a tipped womb does not prevent conception and giving birth. In the second, H. F. B.'s biographer, BechoferRoverts, checked tie records of Wuerzbung for the period in question and found no Dr. Leon Oppenheim listed as having practiced there. He did find a Dr. Lean Oppenheimer, however, (practiced 1867-1912) so the "certificate" takes on the aspect of a clumsy forgery, in which H. P. B. misspelled the name of a physician whom she had known or heard of during a sojourn in Wuerzburg.

Being in the middle of this kind of situation doesn't make Pierre very lucky. However, I'd inquire, were I on the outside: granted for the sake of argument that the "certificate" in question is a forgery, does this prove that H. P. B. forged it herself, or was aware that the "certificate" was spurious?

## NO ACID TODAY

by Sheldon J. Deretchin

Dear Mr. Lowndes:
As many of my friends know, my letters are usually tinged with acid when I write to a magazine. This 18 not the t .se today, however.
Today I finished Dynamic No. 4, and I consider it to be the finest issue that you have ever turned out. Blish's and Sherman's "The Duplicated Man" is the finest story that I have read in quite a long time. I predict that it will become a ciatsice in the annals of science-fictioit.
in second place, I put White's "No Greater Glory". In its own way, it is as much a masterpiece as the lead novel.
And in last place is "The Winning Losers".

Let's look at the Blish-Sherman story, though. As a work of plottins, it is a masterpiece. I doubt whether Van Vogt himself could do such a job of plot and counterplot.
The dusthowl theory was necessary for the s.oiy, of course, but I wonder if it wouldn't be possible to change Venus' atmosphere ihrough the use of plants. It should be comparatively simple.

Accordin: to theory, Venus has a formaldehycie aimosphere. Now, all plants stove sugar in the form of formaldehyde. Thei efore, it should be a simple matter to develop a plant that can utilize the formaldehyde in the atinosphere, instead of having to transform it from $\mathrm{CO}^{3}$ and water. It could probably be done right now.

After such a plant had been developed, it would be dropped, in suitable contain$e \cdot 3$, on the surface of the planet; a suitable time would be let elapse, and then an e::ploratory ship would be dropped to the suriace to see if the plants had taken hold.
Alas-even into a letter of commendation a little acid must fall. While the cover was superb, you spoiled it by sour overlylarge banner. The inside a atiwork was also quite a bjt insipid and unimag:native.

One final ardition: I fo"got to put "The Last Man in the Moon" in lest place, along with "The Winriner L":crs".

$$
\begin{aligned}
& \text {-123.t Vicer Aquine, } \\
& \text { Pronklia 3, } \mathrm{XY}
\end{aligned}
$$

Well...hardly any acid, eh? Ore nice thing about science fiction, as others have noted, is that experiments can always be sucessful, and theories correct. So, in another story Venus' atmosphere can very likely be altered just as you suggest. So far as the actual facts go, we won't know until we get there; after all, the formaldehyde theory is just the latest explanation
for the evidence, such as we have; it ain't necessarily so, but it will have to do, as the bost theory, until other evidence is found-either from improved observation or first-hand reperts from someone who goes there.

# WATCH THAT BASKET 

by R. R. Anger

Dear Mr. Lowndes:
Well, there's no doubt that the August issue ciepended completely on the success of "The Duplicated Man," by James Blish and Michael Sherman. Dyizumic's I'amous non-fiction features were ruthlessly cut, or omitted, and only three short stories rounded out the mag. It just goes to show that putting all your eggs in one basket is all right-as long as you don't drop the basket. Fur my money the iasue was a itsounding success. The novel was great, combining Blish's scientific know-how with Sherman's sociological theorizing. There were many things one could criticize in it, zuch as characterization and motivation. Blish usually createa much better peopleviz. the astronomer Brant Kittering in "Solar Plexus'. However, the overall effect was brilliant, and above all intereatlag. I readi il at one aitting and it kept a atranglehold on my attention from beginning to end. We thank you, Mr. Lowndes, for not cutting it or rejecting it on the grounds of length. Of course it takes first place in the issue.
"The Winning Losers", by Gene L. Henderson, was a good second. A tiuly funny "situation type" story. Add this to the emall row of stf stories which have urbane humour.
W. Malctim White's refugee from the comic books, "No Greater Glory", was neatly done-something which could not be said for Charles Dye's last-placer, "The Last Man in the Moon". The Alex Schomburg cover was really a beauty, so it's unfortunate that you felt obliged to print a poor story just because it "illustrated" the cover. The surprise ensling has been used a great deal in stf; Henry Kuttner is a master at it. However, it takes a master: to do it acceptably and Dye just ain't it. This reader car.net accept such arbitiary shiftings of plot-direction and mood as are used at the frantic end of this story. Charles Dye ruined a good story by playing around with the title (given to him by you?) which was itself a play on H. G. Wells" famous yarn "The First Men in the Moon." By the time he had rung such changes as "the first Last Man in the moon", the mood wes cone and the whole
thing bocame faraleal. I think you would have rojected it if it hadn't fitted the cover.
Paul Orban did a masnificent job illuatrating the novel. I'm glad you let him da so many. Luros had two fint pieces, too-although the one for "The Last Man in the Moon" was really only a copy of the cover. I thought his pic for "The Winning Losers" was very amusing, I wonder if the military will ever really uge chairs Jike that? Your artwork really is something of a peak for stf magazines.

Hoping for the return of trimmed edges, 180.

\author{

- 23 Dencliffe Di., <br> Torsnto, Ontario, Canada
}

Ye Ed confesses to rocks in the head in reference to "The Last Man in the Moon"; it should have been sent back for working-over on the ending. Sometimes readers second-guess me, someţimes I second-guess myself, where no reader complains. This time I re-read the story in proof and thought: Oh-oh; I'm going to hear about this, and Charley will take it for my boner.

Of course, second-guessers are never wrong-and isn't it a wonderful feeling? Sometime I must tell you how I won the World Series for the Dodgerz in 1951.

## UNCUT NOVELS PREFERRED

by Jack Marsh

Deal' Sirs:
Trimmed edges holp a magazine's appearence, of course, but I cannot see why so many fans place so much importance on the matter. After all, it's the quality of your atories that really counts. 'To me, anyway.

Congratulations on "The Duplicated Man". Too many so-callad "novels" these days are being cut down until they seem to leave out far too much.

-Haltun Street,<br>Jonesboro, Arkansas

The response to "The Duplicated Man' was 3 to 2 in favor; the following two letters are as representative of the opposition as these three above have been representative of readers pleased with it.

## 1 Learned <br> SHORTHAND in 6 WEEKS

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# DYNAMIC Science Fiction <br> COLD WAR STORIES 

by Val Walker

Mr. Lowndes:
I had great hopes for the Aug. Dynamio. A terrific cover by Alex Schomburg-a full length novel by James Blish etc.
Then the letdown-and what a letdown. I believe, in your eagerness to publish a full-length novel, you must have grabbed the first one that came along. As a rule I do not like to gripe about a magazine, but the June issue of Dynamic showed such promise, and the August issue was such a flop that I feel that I must say something.
"The Duplicated Man": if I want to read stories about the cold war beiween Russia and the United States, I will read the headline stories in the newspapers. For that was all the novel was. The iron curtain was in the dust clouds around Venus; the pro-earth party only duplicated the Communist Party.
There has been a trend in science-fiction of late to stories of this type, just as, during the war, many science fiction stories were glorified war stories.
The only readable story was the short by Gene L. Henderson. Charles Dye ft seems to me is working too fast. His story. lacked that certain readable spark.
There were three good things aboat $D$, namic: the cover, "Inside Science Fiction", which is a wonderful feature, and "The Lobby", which is one of the best editorial being written in s-f.
With the Juna lissue I had hoped that Dymamio was going the way of Futureup!

Nevertheless I await the next issue, if for no other reason that to read Robert A. Madle's column.

By all means get the trimmed edges back; and while were on the subject of mag makeup-only one staple-really are they that expensive? This last issue came apart before I could finish reading it.

I will probably be the only person that kicks about the Blish and Sherman novelbut there it is.
Here's hoping the Oct. issue is bettermuch better; even Madle's column will not draw my 25c forever.
$\rightarrow 438$ E. 4th Place, Tulsa, Oklahoma.

Among the many things that science fiction writers can do is to project more-or-less current situations into the future where they can be manipulated and solved by methods unavailable today. Stories of this type, as long as I can remember, have usually been con-
[Turn To Page 88]


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## DYNAmiC Seionce Fietfon

troversial, and some readers have objected in principle, as you do.
You weren't alone in not caring for "The Duplicated Man", although you were the only reader to specify dislike on the grounds you did; others just said "phooey", without stating why.

Frankly, I'll stand by my guns on this one, without prejudice against anyone's right to lambast me for doing so. That doesn't mean that you'll see frequent stories of this "current event projection" type; while I like one, now and then, I fcel it can only be done rarely.
Reminds me of the gent at a concert who murmured to his companion, while the violinist was sawing through a cadenza, "This is very hard to dofiendishly difficult."
"Huh!" responded the other, "I wish it were impossible!"

## YOU DONT KNOW?

## by Carol McKinney

Dear Bob:
You know, I realis counted on reading axd enjoying "The Duphicated Man" in the Alsg. Dumemic after it wiss played up so oruch and evergthing. It was disappointing, actually to get into the story. I suppase there will still be lots of ravea thourg-zoo can't please evergone all the time, hor even rost of the time!

So, the ratings come out like this:

1. "The Winning lacers" (an unthought-of-before theme that really turncd out good?)
2. "The Last Man In Tke Maon" (This started apt better than it ended).
3. "No Greatar Glory" (Egad!) No comment).
4. "The 踇licated fian" (disappoinitig. to say the least).
"Inside Science-Fiction" (vigor*W display of enthusiasten) tise best featare you've had in ats of your mand Repe you keap it up, and even add to it from time to time?

You mean that yeu don't knew that we prefar trimmed edges? Iy ali means-let's get rid of these "mochanical difficulties" and drees up the old yirl! Fire the print-ers-do somethingl All they bave to do is print the rag-you have to taar your hair over it!

## THE LOBBY

- And how about a eover, minus the words co the pic?
-885 N. 8th East St, Provo, Utah
I know well enough that many, if not most, readers prefer and dedre trimmed edges, just as I do mycolf. However, the editor's testimony and opinion is not enough; the inside office wanted corraboration from the yocal readers, which is why we ran that squib asking for statements from you-all.

Incidentally, just to keep the records straight, let it.be known to all and sundry-even J. Athelstane Sundry of Kobold Korners-that Michael Sherman is not Lester del Rey.

PS: Sherman isn't Henry Kuttner, elther.

# THE BATTLE'S ON 

by Al Lewis
Dear Mr. Lowndes:
If there is such \& thing as damning with falnt praise then Mr. Van Rip r's appreciation of Doc Smith han succeeded admifrably. Riper, like the bulk of Smith critics, has missed the point completely.

I realize my line of argument is going to mound a bit like the weird position taken by the dofense in the recent Los Angeles controversy who insisted that "UNESCO is not subversive because it does not advocate world sovernment." My position is gaing to be that Smith's stories are not bad because they are not space opera.
"Space opera," by connotation if not by definition is a limited term, much more analogous in usage to "soap opera" than to "horse opera," which is a fairly respectable generic synonym for "western." "Space opera," originally, meant the sort of atory that was laid against a cosmic background and one or more extraterrestrial planets. Latterly it has come to he symnnymous with "thud and blunder."

If Smith's stories are space opera in the former sense, which is undeniable, they certainly are not so in the latter sense. They are far $t$ competently handled and meticulously thought out for that.

In all of science fiction there are only three or four types of faster-than-light
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## DYNAMIC Selence Fiction

stellar background. It comen in two forms: the subspace type, best axemplified by Murray Leinster's overdrive; and the "fourth dimensional shortcut" most adequately worked out by Aulmov. The second type is the "mathematical drive" of Campbell's "Mightiest Machine" and its sequel. The third type is the spacedrive of Smith's Lenames stories, which strikes at the heart of the problem by noutralizing inertia.

For Campbell, the drive is an end in itself; be is interested in the mechaniem. For Leinater, and the bulk of writera, the drive is a moans to an ond: a way to get from planet to planet in a short enough longth of time to tell a compact story without running afoul of one of the consequences of Einstein's relati ity.
Only Asimov and Smith have developed their theories and portrayed them in operation in their societies; and of the two, Smith's development is the fuller. Inertia can be cut off, but when it is restored the original velocity of the ship is also rostored; this has all sorts of consequences. If there is no resistance to motion, explosives are miserably useless as weapons; therefore the importance of a tractor field. At high velocities the density of matter in space builds up considerable friction and streamlining is once again important. And the law of conservation of energy is maintained because it takes power to run the Bergenholms.
The problem of space warfare in developed; its chief difficulty is seen to bo one of coordination and a solution is proposed.
Subspace is exploited for weapon pessibilities, and the key to their successful employment is found in the psychology of the defenders.
Unattached status is a perfect excuse for Smith's hero to be both high brass and a personal operative.
Smith's universe is a relentlessly developed mechanistic materialism, but optimistlic nevertheless.

His ethical system is strictly relativesomething is good because it approximates the Arislan ideal, rather than vice-versabut it does make room for absolute values in the only possible place they can exist.
Smith's characterization is not nearly so bad as everyone insists. After all, if it "out-Homers Homer" this can be taken as something of a compliment, since Homer has been around, for almost three millenia now.

Van Riper cannot credit Clarissa Kinnison because she is not promiscunus. There are two good reasons for this. One of these is that a superwoman cannot possibly become interested in less than a superman. The second is that, in any person who hopes to justify his or her claims to excellence, there cannot exist a wide gap be-
[Turn To Page 92]


MEN ARE DFTEN ASHAMED TO STRIP FOL SOORTS OR FOR A SWIMI

GIRLS ARE NOT ALLUAING ANO OON'T WAVE EYE. CATCHING CLRYESI

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twoen professed and practiced morals as characterizes much of our sosiety today, And which is better-io lower the standards to meet the norm, or to thy to lift the reality toward the ideal: This iciea is basfo t. all of Smith's stories.

Smith's aljens are his forte. To develop a true alien is one of the hardest of all possible tasks. IIal Clement'e, no matter how wonderful in physioiosy are still homu saps in psychology-by inteition. Weinbaum has solved the problem of malcing his extraterrestrials alien ly making them quite frankly incemprehensiblz-and then playing for humor, Smith's aliens ave quite serious-and woth alien and comprehensible. Nadrects of Palain VII is n:obabiy the most perfectly developed alien in science fiction.

Smith's universe is wonked out with a detail and a logic and a mitrener that is approached only ty Asimis. In sconm breadth of view-he is racoded only b y Stapledon. But then Siableden wiss a piofessional philosspher and was twriting argument, whereas Smith's in spectiation of the "what would happen if" sort.

His plot-form is quite admitiedly the 28 . venture plot. But he haviles it better than anyone else. He writes it with a verre and an optismism and an irrepresible enionment that other would be practitioners of t!e type-Simak, for instance-can't approach. Srists enjoys writing, and is therefore tremendously fun to read. Probably this is why "Children of the Lens" sueceeds at precisely the same point where "Ring Around the Sun" fallg flat on its face.
E. E. Smith is his owin Justification.

Now for the stories in your October issue:

1. "Temple of Despair"-Pease. This was the only story in the issiee really worth reading. Coincidentally or othervise it was the only long story in the issue.
2. "Snail's Pace"- Pudrys.
3. "Fishers of Men"-Annas.
4. "The Poetesa, ete."-White.
5. "Machine Complex"-Wampler.
6. "Night Fear"-Lone.

Somsething has got to we done about covers. With the exception of the Alogust one they have appeared uniformis chaotic. Too much stoff-whether titles. as on the first counle or just assorted junk as in this onc. Thov lack unity.

The same lack of ormanization annears on the contents pape. Feverthing thrown in together and hashed up. Sen egrate the stories and artieles and denartments. mavbe subordinating the latter. More aesthetic

Run fewer stories of lo:rer kength: held the articles as they are. for they are excellent, and put back some of those pages you took out this timp.

Letters: 1. Donald King: 2. R R Ancer; 3. Koe Keough, though I disseree about the book reviepr.
[Tarn To Page 94]


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## DYNAMIC Selence Fiction

Fred Christoff: Once upon a time there was an industry who decided people didn't have any intelligence at all. None of them had ever been to high school and their average I. Q. was that of a twelve year old. It was called the movie industry. One day they found they were making less money than usual, and they wondered why. They looked around and they found that another industry called Television had docided that people only had the intelligence of ten year olds and was running them out of business. So they thought, and they thought, and pretty soon they found something that would appeal to the eight year olds. It was called three-D. So now the industry is happy again and comic book are booming, and if that's the sort of science fiction you want go look up that Avon pulp of a couple of years back.
The point of this whole thing is that it's the science in science fiction that make the genre what it is. Otherwise it's a love story or a western or something else with a few props. Granted it has to bo well written. But it is the ingenuity and the thoroughness of the author's treatment of some interesting aspect of physics or sociology or pyschology that gives the story an interest over and above the mere plot interest.

Science fiction is idea fiction. Without the idea it is emasculate.

> 705 San Lorenzo St., Santa Monica, Calif.

I believe it was Will Durant who observed of the Roman prince Augustus that he had two objectives once he had attained the highest power; one, to make the people happy; two, to make them good.
He succeeded in the first aim; when Augustus died, Rome had become prosperous. But the second ambition was a miserable failure; his people just wouldn't live up to Augustus' noble ideals, and the prince died a bitter old man.

There are all sorts of ideals, and certainly most of what we consider progress-not only technological progress, but improvements in human relationships which are covered in the idea of social progress-has sprung from individual and group ideals. However, there's a kind of idealism which is deadly, and that is the kind which tries to force people to live according to the dictates of someone else's con-

## THE LOBBY

science-and which tries to subjugate fact to moral fiction.

History shows that usually the highest morals have been verbal screens for eras of great hypocrisy; there's an old Arab proverb to the fact that the holier the city, the more depraved its inhabitants.

Now there's no reason why E. E. Smith, or anvone else, can't inject his own beliefs into the future, and have whatever standards he wants. However, there's no reason, also, why the audience shouldn't laugh if the picture is slightly ridiculous. And some have found a ridiculous quality about projecting post-V̈ictorian morality into an intergalactic setting.

However, let's give credit where credit is due: Smith indicates that very few achieve anything like the ideals in practice--which is quite believable.

## REMEREERED WORDS

We're willing to keep the letter-contest going as long as you want it, but the way most of you winners have delayed asking for the originals you won makes me suspect that the gilt has sort of worn off. Originals piled up, and when the convention representative asked for a lot, we turned over more than we meant to.

Soo, sorry, but this issue's winners will have to take selections from. what I have on hand. I'll try to keep things in order, now; but I would like your vote on the matter.

Winners this time are: James Fenimore Cooper Jr., Joe Keogh and R. R. Anger.


## SEWS LEATHER <br> 

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## ...SO THEY BAKED A CAKE

colossal conceit of men, I guess.
When our last signal back to earth had given the okay sign, sure, they started building bigger ships and recruiting another crew. But by the time that the Albert E. II, was ready to take off for a more extended expedition, the Larson Drive was now the Larson-McKendrick Drive, with a velocity of a full half the speed of light, some five times our velocity.

Somehow, Tina had managed to get horself in the party, as Hans had sensed she would. And the time-differential, as it worked out, wasn't serious at all. Tina had been only 32 when we left her on earth. Including the year and a half she had already been with the colony on New Columbia, she was still quite a bit younger than Hans. and just twice as pretty as the day of their separation.

The tremolo note was rising now, the soft, mystic pitch of excitement inherent in the new world.
I turned to Mac, who was grinning like to split his face. I said, "Looks like you were wrong, old boy-about the impossibility of colonizing."

He nodded his head readily, but he wouldn't tear his eyes away from that monsterous, preposterous chocolate cake. The attraction, I discovered, was a little bevy of on-lookers who stood at its base. They were a dozen or more most attractive colonists in the young. er age-bracket and unmistakably of the opposite sex.

Mac said, "Yeah, I was wrons about colonizing prospects. Dead wrong. Aren't you glad?"

And now the tremolo feeling split into a crescendo of sub-harmonics and overtones, a magnificent chord of attunement with life and humanity everywhere in the universe. And all at once I knew I was glad, happy as kell to see these people from the old beme town of earth.


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## THE RECKONING

## A Report on Your Yotes and Comments

The vote on whether we should continue to have our covers illustrate a story in the issue seems to be split down the middle, so we'll continue the practice - but not for each and every issue.
"The Duplicated Men" proved to be unique in that it received more first-place votes and enthusiasm, as well as more "dislike" votes, than any other story we've pressented in this magazine. Obviously, it takes first place, even though the pointrating was below that of "The Winning Losers". The rest of the issue came ouf thus: (2) "The Winning Losers" (Henderson) - 2.04, (3) "No Greater Glory" (White) - 2.81, and (4) "The Last Man in the Moon" (Dye) - 3.00 .

Increased production-costs made an unhappy choice necessary - either to raise the price of the magazine, or to cut the number of pages. The latter decision rules out book-length novelsi let's hope that conditions improve in the future, so that we can offer as large a book as before, without a price-boost.
M.C. Pease's novelet was the sole offering in our October issue to please everyone; no voter put it-in last place, either. All the rest received both firstplace and last-place votes, as well as a bit of raspberry-noises.

Here's the record:

1. Temple of Despair (Pease) ..... 2.11
2. Fighers of Mon (Annas) ..... 3.18
3. Snall's Pace (Budrys) ..... 3.36
4. Machine Complex (Wampler) ..... 4.00
5. Poetess \& 21 Cadavers (White) ..... 4.52
6. Night-Fear (Long) ..... 4.60

And, to remind you again, whether or not we continue to award originals to. the letter-writers depends upon the balloting this time.

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[^4]:    1. "The Wheels of If", Chica־o: Shasta, 1948, pp. 194-222.
[^5]:    1. "A Treasury of Science Fiction" (hereafter referred to as ATSF), pp. 407418.
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