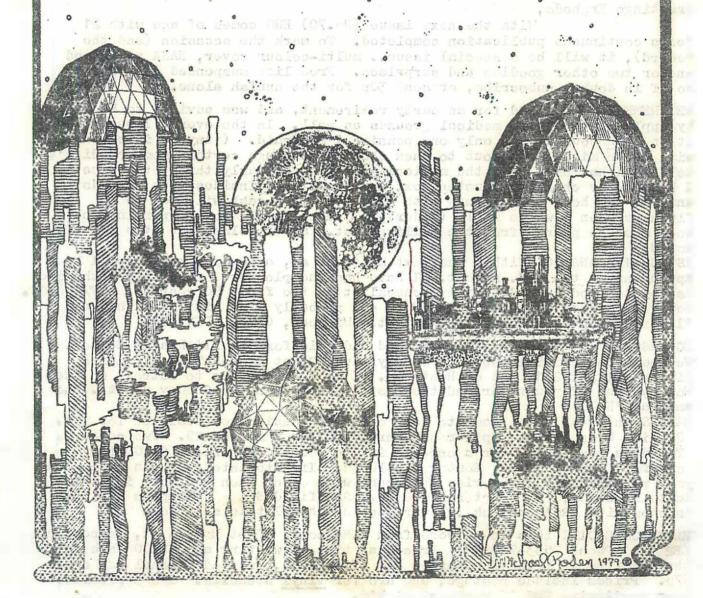
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JAR.

P.0.69





No. 69 January 198 B. T. Jeeves,

230 Bannerdale Rd.,

Sheffield S11. 9FE.

Ph. 53791

# QUARTERLY

Subscription Rates..
U.K. 4 issues, £1. USA 4 issues, \$2.00
(dollar bills, NOT cheques)

#### MINI-ERGITORIAL

Greetings Ergbods.

With the next issue (No.70) ERG comes of age with 21 years continuous publication completed. To mark the occasion (and the record), it will be a special issue.. multi-colour cover, NASA pics, and one or two other goodies and surprises. Free list suspended I'M afraid, so if in doubt..subscribe, or send 30p for the annish alone.

RETIREMENT. I applied for an early retirement, and was advised to be sure by applying for it on medical grounds as well. In the event, I was granted it on both counts. but only one pension I'm afraid. ((Anyone in contact with APA-H might point out to them that even though certain members didn't believe I had been il...the medical officers obviously think otherwise)). I hang up my chalk and suster next April. which coincides with the 21st annish. I hope to continue with ERG. but since cash will not be so flush as when I was a fully (under)paid teacher, all non responding dead wood must be pruned from the mailing list. Sorry folks, but itIs a hard world.

ASTOUNDING/ANALOG Within the next month or so, a new paper back will be appearing on the U.S. market. I have had the pleasure of working with Mike Ashley to produce a definitive checklist to the first 50 years of ASF/ANALOG. Get your orders in now...UK read rs can probably want list it with Ken Slater of Fantast Medway, 39 West St., Wisbech, Cambs PE13 2LX

NOREASCON Val and I have now booked and paid for our flights to Boston. We shall be arriving there on Sunday, Aug.22, at around 7pm on British Airways Flight 271K out of Heathrow. I'll be moving on to Detroit on the Monday, but if you're ar und the Boston Airport on the Sunday night..come and say 'Hello'

BADGES and T-SHIRTS. Made to your order and design..or designed for you.

2" dia. badges cost 30p for one, or £6.50 for a min of 25. Two colours.

T-Shirts cost £3.00 for a one-off in 1 colour..dropping to £2.00 for orders of 25 or more. Rostage included. If interested, drop a line with your requirements or queries (but cash with order when you mail it) to keith R Jeeves, 5A Conterknowle Rd., Sheffield S7. Samples will be on show with ERG's anafsh...cover..and another little samprise.

ELECTROSTENCILS this issue were from J.Malcolm, 10 St Mary's Rd, Leicester, LE2 1XA (Phone 0533-703959) Prices at time of writing are £1.00 each for the first two, £2.62 for three, and after that, each additional one costs 87p. Prices include postage, and are for vinyl stencils. I'd appreciate your mentioning ERG if you contact him.

...and now on to work on the Annish ..... all the best.



First the good news ....

Have you ever wanted to press a button and see your own Saturn V lift skyward on a tongue of flame? .. or perhaps you'd rather start your own version of the boldlygoing Enterprise on another of its missions ? .. Alternatively, how about setting off a rocket-propelled R2-D2 ??? or putting a Space Shuttle through its paces ??

with the real birds may be minimal; but, if you build your own model of any of the above . or of any of the dozens of the other kits available, then the sky is literally the limit. At this stage, many people will throw up their hands in horror and give vent to cries of, "I can't even put two parts of a matchbox together!". Relax and be thou not afraid. There are kits on the market from manufacturers such as Estes and Centuri, so graded in skill requirements, that anyone from absolute beginner to experienced builder may select a suitable kit and create a flying model.

The basic rocket kit consists of a rocket engine, its mount, a rocket bedy, nose cone, tail fins and a recovery system. To this nust be added - when you're ready for blast-off, a battery and igniter unit. If you just want a static model, then don't buy those last bits.

To construct your rocket, simply cut the fins from a sheet of balsa (template supplied), sand smooth and stick them on to the rocket body (a prefabricated tube). Glue a launch guide (thin tube) on the side of the body, assemble the engine mount and install. Attach the parachute, stuff it in the body, plug in the pre-shaped nosecone and your rocket is finished and ready for painting in whatever fancy colours take your fancy. Should you want to fly it, stuff in a motor and igniter, clip on the battery wires, retire to a safe distance and begin your countdown. Naturally, as you gain experience and become more ambitious, you will need to do a little nore than the above, but that is just how easy the first grades of kit make the assembly job.

On the right in a (cataloguefilched) launch-flight sequence diagram. On pressing the launch button, the battery touches off the igniter, up goes the bird

and at apogoe, out pops the parachute (or other recovery system) and down floats your model ready to be re-loaded and flown again.

Now let's back-podal a bit and have a closer look at the power system employed by these model high-flyers .... the 'engines'.

## 5 APOGEE - as rocket reaches peak altroude and begins descent. G RECOVERY SYSTEM - activated by engines' ejection A COASTING PERIOD allows rocket to gain altitude while delay malerial burns. BURN OUT - of the engine propel-7 SOFT LANDING of undamaged rock-2 LIFT OFF - of the et, rearly for another recket from launch 123년. 1 IGNITION - III to more control elec-trical faunch system.

HOW DOES IT WORK?

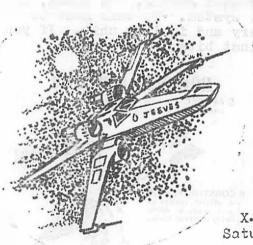
The engines come in the form of slin cylindres graded in a variety of thrusts, duration and purpose... don't panic, the very comprehensive manufacturer's instructions tell you exactly what type to use..and how to use it.

When the time comes for blastoff, there's no need to play around with matches, burnt fingers and the danger of the thing taking off up your nose. The name of this game is electrical ignition. Simply push an igniter into the base of the engine (you buy both from the dealer), string two wires back to a dry-cell, press the button and up

she goes...and if you can't even wire up that simple set-up, you can even buy complete launch bases, ready wired.

On reaching 'brenschluss' (or engine burn-out to the plebs), the recovery system is activated. In the simpler models, this is usually a small plastic parachute, but other methods emply streamers, rotating vanes operating like an autogyro, or even glide-wing systems. Each system brings your model back in good condition for another flight.

If you want to do a bit more than simple ups-and-downs, you can organise competitions with your friends -- spot landings, flight duration or even 'highest flight'...the handbooks show you easy methods of calculating



this. As your skill develops, you can nove along to more advanced multi-stage rockets, scale models of real 'birds', or instrumented flights. Estes market a camera-carrying model kit with camera included. For the more ambitious, they offer simple telemetry packages for radicing back temperatures at altitude or whatever else you may drown up.

Just to get you reaching for your piggy bank, here is a tiny segment of what is available :-

Estes offer.. X-15 rocket plane, Cylon Raider and Colonial Viper from Battlestar Galactica. From 'Star Wars'.. Proton Torpedo and the

X-wing fighter, R2-D2, T.I.E. Fighter, Astrocan, Saturn V, Klingon Battle Cruiser and the Star Ship Enterprise, Bonarc, Honest John,

V-2, Space Shuttle ..etc.

Conturi have.. Flying Saucer, the F-4 Phanton, the Israeli 'Mirage'
Boeing Cruise Missile, Buck
Rogers kits, Saturns 1B and V,
Morcury Redstone, F-104 and
many others.

In addition to the above scale models, both manufacturers have a bewildering range of other kits, all neatly graded according to their level of constructional difficulty...ranging from a basic Level 7 up to Level 5. For those wishing to advance a step further and design their own rockets, you can also choose from a vast range of 'spares' in the shape of bodies, nose cones, nating sections and engines.

Thanks to Mike Banks, I have had the pleasure of building the ESTES 'CONSTELLATION'... a skill level 3 kit. I can state quite definitely that not only is the work involved extremely easy, but also very clearly explained. Any twelve-year-old could have waltzed through the job. The average plastic kit demands for more skill from its builders.

If you want to read more about all the assorted models which are en the market, along with details of how to build and fly then, why not send off a few cents, dollars or what-have-you, for one of the very comprehensive catalogues. Jan-packed with colour photographs, drawings and diagrams..bet you can't flick through one without getting the bug.

The ESTES catalogue for 1979 )No. 791P)
costs Joc for its 66 colour pages. The Estes distributor's address is:
ESTES Indistries, Penrose, CO 81240.

The CENTURI catalogue, also costs 50c, and runs to 64 colour pages. Their address is: Bex 1988 Phoenix, Arizona 85001

and now for the bad news.

My Constellation has to rendin unpowered... to the best of my knowledge, the engines may not be bought, imported, or operated in the United Kingdon.

However, there is yet hope for all the would-be recketeers in this island as I gather from Mike

Banks that negotiations are underway to import the notors and legalise their use over here. When that happens, I reckon we shall see Saturn Vs, boost-glide rockets and multi-stage nodels shooting skyward from every available launch area ... oh yes, and thanks to those recovery systems, and in many cases to the extreme lightness of the models, those returning birds present less of a hazard than any diesel-powered aircraft model. Get in line for that day...and enjoy!

Of course, anybody in the UK who has Stateside contacts or funds may import, or have mailed to them.. a basic kit, as the engines are sold separately. If you just want to build and display...got somebody to send off 50c for you.

00030000 1000000 2000000000000000000

On a slightly different line, I have to hand a leafiet advertising the SCIENCE FICTION TAPE CLUB...readings and dramatisations of SF classics recorded on cassettes and priced at £3.99 a tape. Initial Club Membership will cost you £2..and from there on, you get the Club's bi-monthly news letter and discount details. First titles are. DONOVAN'S BRAIN, 1984, THE KRAKEN WAKES DAY OF THE TRIFFIDS, HALLUCINATION ORBIT, JUNKYARD, THE STARS ARE THE STYX, ALMOST HUMAN, and many others. If you want to know more, write to:- Moonlight Productions Ltd. P.C. Box 47, Bedford MK40 3HD ...and it wouldn't hurt if you mentioned ERG when writing..either to them, or to Estes and Conturi.

Bestest, Terry



Recent means in the press bewailed the falling standards of numeracy in schools. The did not
mention that similar standards have obtained in
Geography for many years, and that newadays probably
not one adult in ten, even among readers of this
magazine, knows the true shape of the Earth.

For example, many observations are quoted as supporting the theory that the Earth is spherical. The differing angle made by the sun in different places at the same time, argued the classical Greaks, points to the curvature of the Earth's surface. They ignere their unlikely assumption of a vast and enormously distant sun, and that a small sun circling over a flat Earth is just as accurate a description of their results. Speaking of circling the Earth brings to mind other circumpolar phenomena, culminating in the Great Apollo Farce. It is well known among educated men that the Apollo astronauts did not land on the moon, but in the remote Himalayas where, due to the increased distance from the Earth, gravity is reduced and air is thin. Had the Apollo shots c incided with an Everest climb, the whole tangle of errors would be revealed. It is not too surprising therefore, that the 'me nrock' was startlingly similar to the Earth's crustal material coming as it did from terrestrial rocks.

Such negative evidence, while showing we do not live on the surface of a sphere, does not show what we do live on. Strangely, the strongest indication is what at first sight appears to be a cast-iron support for a spherical planet. This is the disappearing ship trick. The disappearance of the hull, then deck and finally the funnels as it 'crosses the horizon' cause many to believe devoutly in a curved Earth. The real explanation is simple. The eye can only resolve objects above a certain minimum size: below this size the distance between the edges of the image cast on the retina is less than the average distance between the receptor cells and so the object is perceived as a dot, and so disappears as an object, becoming, in the case of a non-radiating object against the sky, as a ship retreats across the 'horizon' the apparent quite invisible. space between the lower parts of it and the surface of the sea, as seen by an observer on the shore, decreases below this minimum resolvable limit and so all features in that space become invisible. Increase the difference between the ship and shore and the amount of ship that is unresolvable increases until the entire thing vanishes. The effect is the same as that which would be produced on a curved world, with one difference; alter the resolution of the eye and the horizon effect should nove. And it does! Dogs, animals with less accurate eyes than ourselves, are notoriously shortsighted, not in the sense that they see objects out of fecusy but that they are unable to see to the human horizon at all. A canine curved world would therefore have a radius of only a few hundred miles. Increasing the resolution should move the horizon further out to sea, so what do we find on every promenade to allow holidaynakers to see ships invisible to the naked eye ? Telescopes! A telescope could not possibly see over a curved horizon, but that is just the effect observed. Ergo, the horizon is not curvedo

rich side should

we land on

Consider also that the horizon at sea is not curved, but, waves excepted, is geometrically level all round. On a curved Earth, the horizon should curve too. Similar observations on land require greater heights to cancel the greater altitude of the hills compared with the waves, but reports from aircraft, ballooms and parachutists repeatedly show that the Earth is not a sphere, but a plane whose almost infinitely distant edges appear always level with the observer. This again, is an effect of parallax. An infinitely distant object on a flat plane, no matter how far below or above the observer, will always subtend a negligible angle with the observer if it is far enough away, and

so will be interpreted by the eye as being level with it. It is only when high altitude aircraft and rockets leave the atmosphere behind, that the refraction of light caused by gradients of air density high above the Earth produce the illusion of curvature.

In extremes, this results in those beautiful but totally nisleading photographs taken from Earth 'orbit'. Direct observation under more normal conditions reveals the true state of affairs.

For far-wandering colleagues, other proofs are available. Polaris can be seen

South of the equator, although because of the amount of air in the way. it is not visible from the fir South. The reason for bizarre magnetic effects found by early explorers trying to find the South Pole is, of course, that there is no South Pole. When satellite navigation systems are set up using a curved world model, these will be similarly unhelpful.

The list goes on, but I must stop. No doubt the percentage of the geotopically ignorant will continue to be more than 99 percent as at present; but at least, you know better.

Don't You ?

#### 

seattle IN '81 is the slogan. WESTWIND is the superbly produced fanzine produced by the bidding committee. Currently to hand are issues for May/June..28/29 and July 1979, No.30. Jam-packed with artwork, articles and convention news..plus of course details of how to become a pre-supporting member for Seattle in '81. Send a dollar to Lauraine Miranda C/O NWSFS, P.O. Box 24207, Seattle, Washington 98124. UK supprters can send money orders, etc. If you want WESTWIND (which is actually the NWSFS mag. Write to NWSFS PO Box 24207, Seattle, WA 98124 and ask to join.. the annual dues for the Northwest Science Fiction Society are seven dollars.



ALAN BURNS 19 The Crescent Wollsend NE28 7NE

Definitely one of the better ERGS, but please don't ask me

why. It might be the presentation, or the articles—with emphasis on your scholarly book reviews. However, I do take exception to your wasting valuable ERGitorial space on answering that idiot who seems suspiciously like the current neos who replace brains with ordure ((No, it was not Joe Nicholas, but actually a fan of pre-war standing)) and think that they are manly when they use dirty words, with a snigger like schoolboys which is probably all they are mentally.

Michael Banks has gone through the

mill much the way I did, if you want to destroy your scul, try selling encyclopedias! (((Most of today's neos are OK Alan..it is only a small minority which give the rest a bad tame. As for their use of four-letter words..be patient, they'll eventually learn to spell longer ones )))

Cover - the front one isr!t bad either. Of your Ergitorial, full marks for straight speaking and to say much more would be to repeat what you've said, but with added vituperation. At times I think the only explanation for the daft things supposedly intelligent people say and do is that they are the unwitting victims of a form of cultural insanity which is destroying everything which once made for stability and security. How else to explain the 'Alice In Wonderland' illogic, the gobbledygook and claptrap which now passes for informed opinion? It's the Decline of the Roman Empire all over again, but this time it's happening in decades instead of centuries - and the barbarians are already within the gates. ((Yes, and dressed as 'protestors', 'Civil rights supporters', peaceful (he heh) picketers and all that ilk)))

2 Maxwell Close Buckley Clwyd ERG 68. How can they say ERG never alters (((Easy, They shut their eyes and flap their lips as the hot air comes out))) This is a damn' fine issue for me. Great front cover, clear layout and artwork from other than Jeeves (((Er, is that a compliment ??))) '/ho wrote your ERGitorial

letter - your 'alter-ego' ? (((Nope, a genuine, now Gafiated fan of many years standing))) I agree with all your points, even the ones on India. Interestingdiscussion going on here...Yes or No' for Muclear power stations. Reflections of 'Three Mile Island' and all that. (((Well, (a) we need power, and (b) Ignoring the press and 'protestors' hoo-haw.. the facts are that the nuclear power industry as the best safety record of any power industry!)

Roger Waddington 4 Commercial St., Norton, Malton. N. Yorks Point.1. surely expertise can't be channeled, and that most of the great discoveries (or at least, most that you would consider advancing the human race) weren't made with their particular effect in mind, that like

most of us, they were happy accidents... Oh there's research going on daily into the inescapable problems of living, into cancer, into aging; but there is no way that you can devote the whole researches of a nation to this end. If we were all robots, if we were merely relays in a circuit, why, it

happen; but living in an all-too-human world, such things cannot be ... and even when they have been tried - the Cultural Revolution in China, the various Five Year Plans in Russia - they too have faltered and failed.

Point 2. The last time the Third World was exploited was when they built the Pyramids...well, there have been the more recent evils of the Slave Trade; though contrasting the present state of independent Africa compared with the lot of the American Negro, are there any that wish they had been born free?

Point 3. surely progress is an escapable part of living, that curiousity is built into the human animal, and if a society loses this gift, it grows stagnant and dies...certainly, if your correspondent wants to opt out of living this way, with the rest of us, the way is always open; that is, if as I take it, he's living in a country where he has the choice, instead of being forced to work for the glory of the state.... ((( Roger had several other good comments which space prevents ne from including..but the thing which has surprised..and delighted me, is the fact that so far every letter has taken a similar viewpoint. I was beginning to think I was a lonely supporter of the views expressed in ERG 68)))

Mike Banks', 'Thoughts That Go Bump In The Night' is the DAVE GRIFFITHS kind of anecdote/informal type piece that I'd like to see Hale Rd more of -- same goes for his follow up to it. I thought Erith, KENT the Ergitorial was superb. Frankly I'm sick of all these 20th Century Luddites constantly pointing at technology and the decadent West as the sources of the world's problems. I wonder how long these people would continue carping about our screwed-up priorities if they had any conception of the allernatives. If it were left to them, we'd still be getting about in large wooden galleys rowed by slaves. ((Presumably they would be enancipated slaves ??))). Progress is not only necessary, but it is inevitable. The idea that scientific research must produce results with an immediately practical and beneficial application is just not facing reality. (((Since when did that stop Luddites ?))). The number of ultimately) beneficial discoveries that come apart by accident as a result of related or unrelated research must be staggering. My attitude is, "If you want to be in misery and poverty with people who won't help themselves - fine, here's your plane ticket. Just don't try to make it like that here, because for the most part, I'm pretty dann' well happy with Western culture." (((Dave also pointed out that I incorrectly labelled the original aero-space concept as 'Dynosaur'. when it should of course have been 'Dynoscar' derived from 'Dynamic Soaring'. Sheer carelessness, I knew better, but fell into the spelling trap)))

PAUL RYAN The views in your Ergitorial certainly made my little 10 Springwood Rd neurons flow (((Neurons don't flow do they ? .. I thought it was neural currents which flowed along 'em. quibble))) Calculood Leeds LS8 Strangely, I found myself to be a middle-man in the two opposing factions. I agree with most of your level-headed comments, but find that whilst I stand with you, my aims and ideals are light-years apart. You mentioned briefly that a century ago, mankind was living in intolerable conditions, no medicare, transport etc. But I think to see that such conditions were caused by the Industrial Revolution in the first place. Go backwards in time and you find the nedicare of herbalism which is basically the same as today's medicare. ((( Sorry, can't agree. The Black Death Filled thousands..bet it wouldn't to-day. As for conditions...pity the poor dweller in the area where William built his New Forest. or where anyone killed the King's deer .. or had a hand chopped off for stealing bread .. etc)))

(PAUL RYAN Contd.) Let me state that I am not against progress and technology. yourself, I believe that it should benefit Mankind as a whole, but I sadly turn my back on the dangerous way it is handled. The childishness of all Government policies and the conceit, selfishness and lust for power, never ceases to anaze me. (((Agreed..Personally, I summarise all political policies as.. "What the Part wants, first. Second, individual MPs (if that doesn't conflict with iten 1), then 3, What the Unions will let us get away with. 4. What the Country needs.. if we can fit it in. 5. Must remember the Common nan..if we happen to be near an election.))) I'n afraid I'n one of those patiful chaps from the Nuclear Brigade. To be perfectly frank, I'm scared of the whole thing. I feel the decision for nuclear power has been far too hurried by government officials. (((Will you say that when we have NO power in fifty to a hundred years time ?))). A hole in the ground and a glass block, is not my idea of a satisfactory method of ridding ourselves of such an awesome and deadly power. (((Now there, I agree wholeheartedly..but there are other methods...such as dumping 'en in the Sun..the wastes I mean, not the politicians...H'n. must think about the latter.)))

Michael Banks is in great form—just think if he'd started earning \$300 a week, he'd never have got around to putting down those entertaining thoughts... My own experience with encyclopedia salespersons is from the other side of the fence. Some years ago, Wendy and I decided to buy a set of encyclopedias. We bought (and are quite happy with) a set of Colliers. Several years later, we'd neved houses and a knock came at the door. Two people stood there. They made some pitch, to which I replied, "What are you selling?". "Oh no," they said, "we're not selling anything — just carrying out this survey... can we come in ?". In a genent of weakness I said yes. In they came, and as I expected, before long the survey led into a discussion of knowledge and encyclopedias... and out popped their sample. At this point, Wendy nearly gave the

game away. but I averted that and had a pleasant half hour being coerced into the position where the inevitable sales form was produced and I was asked how I could

not want their set of encyclopedias. I said I agreed wholeheartedly, that I thought their product was good, was as up-to-date as could be expected, but I didn't think a second set would do ne much good...then I showed them our set. They were very annoyed (obviously thought their commission was as good as in the bank). WHY, they asked, had I let them waste their time? I pointed out that I'd asked them if they were selling anything and they had answered no. I therefore considered I'd been as honest with them as they had with no..... (((Which is the kind of story I love to hear..the biter bit, or hoist with his own bootlaces()))

Won't say much about the main ERGitorial as you're preaching to the converted in my case..but you appear to equate India (solely) with the third world. As you (and the person you quote) have personal knowledge of India, it's probably fair enough. ((Well, as you say, the writer cited India as a classic case..as do so many others..and having experienced it myself, if tended to concentrate on that particular place...but did you see a recent newspaper bit about a woman who resigned from Oxfan..because of the fiddles by the Indians at the receiving end?)))



# CAPCOM

on the ground, so the growing chill in the morning air is being greeted by me with somewhat less than wild enthusiasm. The same can be said of the growing uncertainty surrounding the Space Shuttle.

Already its launch schedule has slipped from March of this year to June, then to September and to November and on to mid 1980. Technical problems have been responsible in part for these delays, but I imagine there are few of you who don't realise by now that funding is the major hitch. The coel attitude from those responsible for NASA's budget-

ary position is fairly irksome when you consider that for want of what amounts to an insignificant increase in funding (in terms of gross national product) the space shuttle

Columbia could easily have been aloft by Christmas.

This would seen to be a good time to recall the adage that those who forget their history are doemed to rope it. At the IAF Congress back in 1956, the Soviet delegates were continually dropping thinly diaguised hints about the possibility of them launching an artificial satellite in the near future. I'm sure it's not necessary to remind you what happened the following year. Now, at the latest IAF Congress they have been dropping hints about their shuttle programme. It is not at all inconceivable that with the smaller and less sophisticated Space Transportation System they are credited as having under development, they could just possibly beat NASA's Shuttle into space.

Remember how their Tu-144 supersonic airliner despite being started later, beat Concorde into the air? It wasn't the result of superior engineering, simply the result of a rush. Subsequently the aircraft crashed twice, was withdrawn from service and forced the Soviets into publicly asking the West for technical assistance in correcting its flaws. If the Soviet Shuttle gets into space first I have no doubt that a great deal of fanfare will accompany it. The media has a short memory and has chosen to forget how convincingly NASA demonstrated its superiority ten years ago. Admittedly, it probably won't matter too much in the long run if they do succeed first, it's just galling to see an inferior product taking most of the acclain. It's by no means too late for Columbia to fly first, but a definite chill is in the air and the steady pounding of pursuit is growing stronger.

Neil Armstrong, should be the development of a permanent manned space station. Armstrong believes that it would be affordable, productive and comparable with the Shuttle. In addition it would provide the practical experience necessary for future manned, pla. tary expeditions. Recalling the events which eventually condemned the orbital workshop SKYLAB, Armstrong said that its problems could have been solved if the U.S. had a more active space programme. America, he said, needed a new commitment to space, adding that it would take something significant to reverse the disenchantment the general public feels towards space.

Technology exists to develop turbine engines inexpensive enough for light aircraft, according to a study sponsored by NASA. Powerplants of this nature would cost 25% less to operate, 15% less to purchase and would use 10% less fuel than pistone engine equivalents.

In 1985-86, Halley's comet will return to the vicinity of the Earth for a visit that is expected to be one of the least spectacular in its history. At perihelien, when it reaches its brightest, it will be on the opposite side of the Sun and invisible to Earthbound viewers. NASA's Jet Propulsion Laboratory has plans to renedy this situation however. In mid 1985, JPL hopes to laborate an instrument probe into the halo of dust and gases surrounding the nucleus. In addition to this the spacecraft will continue on to rendezvous, three years later, with a smaller and older comet, Tempell 2. Coasting along with the comet for a year or so, the spacecraft will probe its characteristics as they continue around the Sun and the comet fades towards the orbit of Jupiter.

Although still in the planning stage, such a flyby mission holds a number of attractions, not the least of which is the opportunity to see two shows for the prize of one. Tempel 2 will also give scientists their first close look at a conet throughout the majority of its dynamic range of activity. Ultimately, NASA hopes to learn more about conets suring this

ads mining bestegalb whiled ma

mission, than at any other time in recorded history.

======Dave Griffiths 1979

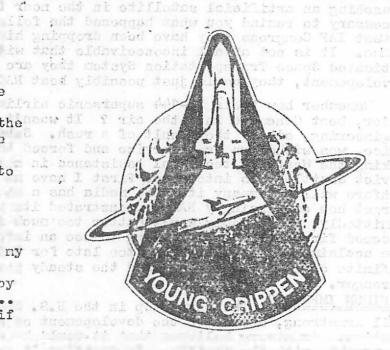
#### NEWSFLASH

The bacover of ERG 68 is
now obsolete as far as
information on the Galileo
mission goes. The 1982
launch has been cancelled
due to Shuttle problems. We
are now scheduled for two
Taunches in 1984, one for the
orbiter and another for the
probe. This will add at
least 150 million dollars to
the cost of the mission.
Things are getting sad at

JPL Harry Andruschak.

P.S. One of these months, my article on the 1985 Comet
Mission will be published by
Stellar Fantasy Newsletter...
you may reprint it in ERG if
you wish. H.A.

(((Ta, Harry...now is there anyone out there can send me a copy of Stellar Fantasy Newsletter ?? T.J.)))



New Shuttle Patch—The official insigna for the first Space Shuttle orbital flight test was recently issued. Crewmen for the Columbia (orbiter 102) will be Astronauts John W. Young (commander) and Robert L. Crippen (pilot).

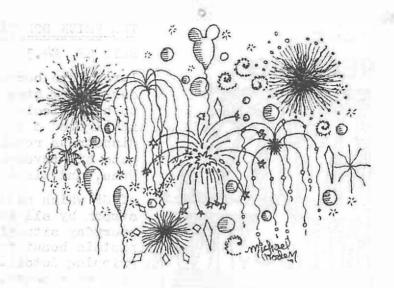
Still More...
THOUGHTS THAT

IN THE NIGHT

by

Michael A. Banks

I've noticed lately that quite a few new organ isations of very specialised types have been springing up; that is, people who have a common interest or situation have been taking the lead of. Fandon and organising, with



newsletters, conventions, and all of the accompanying necessities of organisations. (Of course, they'll never have as much fun as we fen do, not without the Great Fannish Secret!).

There are, for example, organisations for people who are Heft-handed, clubs for those afflicted with colour-blindness, and even a nationwide society of short people. All well and good, but that last bothers me a bit. Why? Well, I have nothing against short people, but I think they have been over-doing the publicity on their problems a bit. After all, how can their problems compare with those of tall people? Being a tall person myself (6.3"), I can well attest to the fact that we have problems of a very special nature.

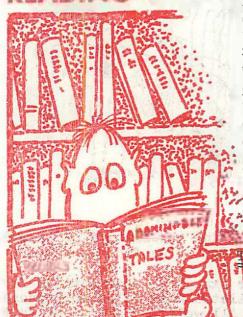
If you're not a tall person, you're probably saying, "Hell, what kind

of problems could a tall person possibly have ?"

Well, for starters, consider the fact that we live in a world that is designed for (and probably, by) people who are under 6 feet tall: Car roofs are too short; beds are the wrong size — a King size is long enough, but too narrow, and a Queen size is wide enough, but too short! Our very existence costs more, because we have to eat more. We bump our heads on chandeliers and other oldments hanging from ceilings which were hung there by those of average height. As if that weren't enough, we have to put up with unprovoked attacks by short drunks who need to 'prove' themselves.

I suppose there are compensations, however. Aside from the short drunks, no one messes with a parge person, and it is nice to be able to reach things without having to climb on ladders. ...And, there is a certain myth attached to height which I won't go into here... But, hell's bells, ...have you ever tried to buy a pair of slacks with 30th legs?

I propose that this natter be looked into by world governments, or at least town councils, and that resolutions be made to create ledislation on matters affecting tall people. Building codes, for instance, need to be revised so that a minimum height of dorrways would be required, to prevent the thousands of head wounds suffered by unobservant tall people each year. Manufacturers should be required to make clothing, beds, chairs, cars, and other affected items in either larger standard sizes, or in special "extra large" sizes. Sadly, I don't think we tall people will get any progress, we are in a minority, and as you know, the minority always gets the "short" and of the stick . . and that's the long and short of it.



THE FRISK DONATION

Robert Hendrie Wilson

SH. 35 Hale SF

Once Robert Frisk has been lured into becoming an AID donor, he finds he is developing strange tastes and phobias. Inknown to him, Nicola Rune, the operating doctor has instigated a side experiment of her own with disastrous results for Frisk. However, Frisk gets his revenge in a most unusual way, on both Rune, and his business partner. This is the type of SF which neatly bridges the gap from main stream by sliding almost imperceptibly from an everyday situation to a chilling denouement. The plot is beautifully intricate and developed in gripping detail, with no annoying loose onds or but what about. " questions left unanswered. Once I began to read, I simply had to keep going to finish the tale in one sitting.

ME PRISONER 2 'A Day In The Life'

Hank Stine Dobson \$4.75 Spin-off from the famous TV series which starred Patrick

McGooghan and set in the artificial Italian village of Portmeirion Thmas Disch wrote the opener in this series (also obtainable from Dobson) and now Stine brings us a second advent-

ure. Once again, the un-named 'Number Six' is imprisoned in 'The Village' because he will not reveal his reasons for resigning from the Secret Service. We follow the placed, slmost idyllic, but fully supervised life of the tiny community. 'Six' refuses to conform, is arrested, sentenced to death and begins another escape attempt -- and must fight to determine just what is reality. More peaceful than 'The Prisoner', but still full of interest and if you enjoyed the former. then this follow-up is meant for you. I must admit to kicking myself more and more for missing the original TV run.

THE HORDE Joseph Green Dobson 84.25

The Shensi have a tri-nother, hive culture with telepathic overtones. When Leo Volz and his wife/partner encounter them on a new planet, Misty is captured and shipped back to the home planet. Aided by one of the Shemsi, Leo sets off

to rescue her and makes one of those long 'journeys against all odds', first across the new planet, then through space, and finally across the Shensi world. The ending is rather 'deus-ox-machina, but otherwise one goes along for the ride. Incidentally, the Shemsi..although described in detail, never seemed really plausible...particularly the segregation of developing stages and the largely off-stage revolt against the nothers. There are some similarities to a de Camp, 'Viagens Interplanetarias' tale..or maybe even John Varley's 'Titan', but without the former's humour, or the latter's scope of imagination.

THE TRIUNE MAN Richard A Lupoff Dobson 54.25

Light years from Earth, on the artificial memory-bank world of Sravasti, the synthetic beings the Yakshi have observed a strange phenomena slowly destroying the whole universe. Their machines and computers single out and snatch one being who can halt the catastrophe. They collect comic-strip

'Buddy' Satvan, a multi-phase schizophrenic, currently institutionalised for a murder committed by another of his personalities. These include Roland Washburn, would-be Nazi fuhrer and the engineering genius Auburn Satro. All these alternate without warning with the added problem arising when they get duplicated. and triplicated by the Yakshi machine. On top of this, Satvan's top strip, 'Diamond Sutro' is being considered for TV; provided Satvan can be eased out. Things may seem confusing at first, but gradually Lupoff brings all the threads together so that the universe. and Satvan are saved.

Once again, Peter Weston has assembled nine original stories

Ed. P. Weston without once sirking into the mud left by the 'New Wave'

Here you will read of the killing of anyone connected with
the discovery of FTL; why matter transmission needs suppressing and a battle between two kinds of city dwellers. There are oppressive
aliens killing intelligent apes; an adultere and his punishment. You meet
time roversed, a leap in time and extended time via FTL, and finally, the
life forms on Harlan's world. As Peter says in his introduction.a critic
wrote.."send all your good, solid, well constructed, tightly-plotted,
grammatically correct..... etc. to Peter". He meant it as a slur..but
what an indictment of 'modern New Wave'? Nevertheless, it sums up the
contents...real stories. Long may Andromeda continue to print 'em.

SPACEWRICK Latest in the 'Terran Trade Authority Handbook' series. It is large-sized (24 x 30 cms) and crammed with superb paintings Stewart Cowley of space and spaceships in various states of repair by a Hanlyn £3.50 variety of artists. There are numerous line drawings giving 3 view plans of some of the craft..useful if you want to scratchtaild a few models. The text takes the form of authentic accounts of each disaster and the circumstances surrounding it. The whole package being presented as a historical record of past events in the development of space travel as seen from a viewpoint in the remote future. The attraction for ne, is the artwork, and I would prefer less text and nore paintings..with details of their origins. Quibbling apart, the format makes for easy and interesting reading, and at the low price, an ideal present for anyone with an interest in SF or space travel. Incidentally, Hamlyn clso issue 'The Space Shuttle Handbook in similar format ... an utterly invaluable collection of articles, photographs, drawings and facts for any modeller, space buff, Shuttle follower etc. .. and at the low. low price of £2.95.

ARENA

Julian Jay Savarin Hale. 24.35 Basically, this is a three-vignette story with the parts tenuously linked by the background of a Galactic observer and Earth as a sentient planet. Each section deals with conflict; a Dawn Age man against a beast and

his environment; an educated slave against a brutish master; and finally, guerillas against an oppressive, anarchistic State in Britain. Individually, each part is well-written, gripping and brings its theme alive and capable of standing on its own. However, despite a very tenuous 'racial-memory' and occasional notes by the 'observer', the gestalt never really merges into a complete whole. The moral of the tale. if one stands out, is that mankind refuses to learn from history, and will continue to thwart, speil and struggle his way through life. Britain/The Empire comes in for a bit of bashing...but were we any worse than any other country? Personally, I feel we were quite a bit better...and by dropping this angle and building up the Galactic supervision I feel this would have made a winner.

THE GUARDIAN AT SUNSET

Alan Braclay
Robert Hale £4.35

Colonists settled on Caria, some 4,000 years ago and their society has become decadent. Janar, half-brother of the King, (who sees him as a potential usurper) survives an assassination attempt and accepts the aid

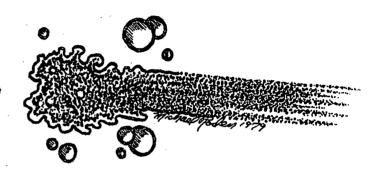
of an unusual robot mentor. Janar changes his lifestyle, rises in Carian society and tries to guide the people through an impending energy crisis. At this point a counterthread is introduced, leading to a minor 'twist' ending.

Unfortunately, we never see Carian society in any detail. Despite the duelling and plotting, this is essentially a gently-written tale in the very credible style made popular in Jack Vance's alien yarns. Pace is smooth and steady as we follow Janar's career. Not a block-buster, but a pleasing, entertaining story which also manages to point up the real problems in our own energy crisis.

TRIPS IN TIME

Ed. R. Silverberg. Hale £4.35

A collection of nine, time yarns. Priest tells of the 'freezers' who petrify critical incidents and people. Sheckley describes a hardware 'pinching demon; Peter Phillips' gem from Asf is here. the monks who haunt a food factory. Anderson tells of the penalties of time-hopping nad its converse comes from Zelazny as he related a second chance arising from



time-reversal. Silverberg appears with an innocent caught in a time loop. From Marta Randall comes a space/time hunt for a lost love and to wind up, van Vogt's 'Seesaw' sees a reporter doomed to oscillate through time.

Each brings a new twist to one of SF's oldest themes, with the variety and pace keeping it fresh throughout. One of the better recent anthologies.

THE TOLKIEN SCRAPBOOK
Ed. Alida Becker
Running Press \$7.95

The paperback version of Grosset & Dunlap's superb hardcover and still boasting 190 large-size pages, packed with illustrations and 8 terrific colour plates by Tin Kirk. The written part consists of a series

of collected articles (including one from 'Triodo'). The first half gives a Tolkien biography and examigntions of his work and aims. Next you drook over the Kirk portfolio before moving on to examine Tolkien fandom via fmz. puzzles, writings, poems and even Hobbit recipes for you to try. There is Elvish writing (Do people really use this for communication ?); lists of societies, fanzines and books. The layout is clear, attractive and the book simply exudes enthusiasm. For Tolkien lovers, a real treat. and made easier on the pocket by this self: cover edition.

EEASTS OF GOR
John Norman
Wyndham 'Star'
£1.50

The barbarian world of Gor is Earth's counter planet round the sun. Its men are bold, strong-willed and masterful, its women, beautiful sex-slaves. The alien Kurrii prepare to invade and their advance agent sends a challenge to Tarl Cabot, a mercenary. He sets off to prevent the attack and

meets an assortment of adventures as he leaves a trail of raped (and therefore, utterly abject and sex-craving) maidens along the way. The author's premise is that women need and want subjugation and sex. Smoothly written and a hilarious 'courting' incident. Any chauvinist, male sex-fiend out there will be delighted with all the nude and nubile, tastefully chained females.

JUPITER LAUGHS

Edmund Cooper Hodder & Stoughton £5.50

A 15-story collection in a variety of styles ranging from the lyrical nd serious to the flipp-

antly comical. Those familiar with the author longer works will be surprised to know that no one gets raped on stage, even in the barbaric, Biblical, baby-killing off the title story. We hear of the off-beat fate of alien visitors and the trials of a BMEWS operator closely followed by the 'death' of a puppet named Plunk Goo. There's a new use (in the far future) for Nelson's column; the invention of peace-bringing Doomsday weapons and a return to the pyramids of Mars. Cooper ranges from deadly butterflies, via star-travel to the problems created by a computer-taught profigy.

There are a few 'unsecured endings', but also a sufficient number of neatly rounded-off yarns to ensure that this collection elicald got down well with each and every breed of reader.



A CIRCUS OF HELLS

Poul Anderson Hale £4.35

Lieutenant Flandry is bribed to check out a rediscovered mining world. Partnered by beautiful prostitute Diana he soon finds himself involved in a deadly chess game in a warren of hostile robots. Then, betrayed into

encmy hands, Flandry finally escapes by virtue of Djan exercising mental powers developed under the tuition of their Merselan captor. and with greater depth and insight than the average Kinnison, Rotlei, er, Flandry, the brave lieutenant is often off-stage while other aspects of the backgr and are filled in. We also get a more detailed look at the Mersians themselves, so that although the plot is flimsy, we get a more richly rounded yarn...with Djan winning more sympathy than Flandry, and even the Mersians coming across as nicer and more honourable characters than the humans.

HALLIWELL'S FILM GUIDE Granada 'Paladin' \$3.95

Over 1,000 pages, jam-packed with details of some 8,000 English Language films. Directors, actors, producers, companies, gauges, special effects men,

music, etc, plus a brief plot synopsis, and in many cases, critics' comments. There is also a listing of alternate titles for those films which acquired a second name, and a refreshingly candid look at the changes in the cinema, its standards, and the posturings of certain critics.

Next time you want to settle an argument over when a film was made, who directed it, or who did the music...or even when booking films for a Convention, simply look in the 'Guide'. This is fascinating if you only want to browse or perhaps indulge your nostalgia; but, beyond this, if you have more than a passing interest in films, then thisis one of those utterly indispensable books which you must have on your shelves. Highly Recommended.

ADD SOUND TO YOUR MOVIES

I couldn't resist buying this one. If like me, you Mike Kent get a kick out of adding sound to your own movies. this Papermac £3.95 well-illustrated book is for you. It covers basic, nonsynch sound, and on up to multi track, lip-synch and

single sound systems. How to make your own sound mixer, striping, editing, commentary, effects, wiring, home shows and many other items. I've been adding sound for years. but I still learned a lot from this one. Another good buy.

THE RINGS OF TANTALUS

Edmind Cooper Coronet 85p

A re-issue of this second tale of 'The Expendables'. The team of seven misfits (which includes four replacements) explore strange rings on Tantalus. heightened, as one of the seven is a saboteur. They

locate a derelict ship orbiting the planet, and once down, their camp is attacked by simian-like robots. Plenty of hectic action, blood and thunder before it is all sorted out. All good clean escapist fun. This time it is issued under the author's real name, rather than 'Richard AveryI.

SEX IN THE 21St. CENTURY Ed. M.Parry & M.Subotsky Panther 95p

The editors have assembled a dozen items bearing on SF and sex, opening with a teenager who craves it and develops psi powers. There's a neat yarn about a man who can make clothes vanish; a robot device

which falls in love; group sex by remote control, and even heterosexuality as a crime. There is an alien breeding attempt plus many others including a section of 'small ads'. I'd rate it ten hits out of 12. with the two under par being the 'ads' and the implausibly constructed 'Vana'. Good stuff!

EYE TEASERS C.H.Paraquin

Dragon 50p

A juvenile collection of optical illusions which amply demonstrated the truth that. "Things are not always what they seen". Close on 100 pages of line drawings guaranteed to doubt your own sensos. Certain types such as which is the

longer?, appear in different guises, but there is still plenty of variety. This is a book ideally suited to capturing the interest of any bright youngster, at home or in school..so why not make it a surprise gift for someone ?

ROADSIDE PICNIC

Aliens have made a brief landing and left behind Arkady & Boris Strugatsky. a strange, deadly area known as 'The Zone'. Red Schuhart is one of the 'stalkers' who venture in Penguin 80p searching for weird gadgets left there. How he

and others brave the 'witches jelly', the 'black lamps' and high-g traps makes for one of the most gripping yarns that I have had come my way from the Strugatskys. Both they, and their translator are to be praised on a masterly job of menace and suspense.

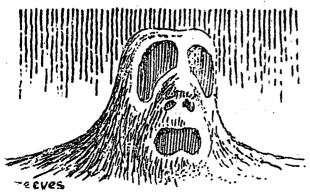
Fred & Geoffrey Hoyle Pengain 85p

The year 2087 (which sounds exactly like the present. right down to petrol-driven cars), the wandering sun, Helios -- half as large again as Sol, together with its planets, is passing through our Solar system.

(Swallow that, and the rest is easy). Two expeditions are mounted to the

planets, one Russian, one American. On landing, strange events and hallucinations are exprienced on the apparently uninhabited world...and then the survivors return to Earth.... 1

Someone should tell the Hoyle's that the Russians put a woman (Tereskova) into space years ago. they seem surprised when it happens in 2087. Otherwise. once you get into the yarn it moves along at a rattling good pace and holds one's interest in good old, 'what-willhappen-next style. Apart from the quibbles, it's the best Hoyle I've read.



SEARCH THE SKY Pohl & Kornbluth Penguin 80p

Ross, a bored shipping clerk on a decaying world accepts the job of flitting round the Galaxy in a FTL ship to find out and halt, the cause of the creeping decadence. He meets an age-oriented society, a matriarchal one, a world of Joneses, and eventually an Earth populated by morons. The tale is

Hightweight but amusing but never really comes alive as have previous yarns by this team.

THE CHRYSALIDS John Wyndham Penguin 80p

A post-atomic-war tale, back to nature and the ruthless elimination of any form of mutant. Young David Strorn, son of the local, bigoted preacher has a secret mutant friend.. until she is doscovered. David too, has his differences,

How it all works out, makes for another of Wyndhman's he can read minds. slowly developing and chillingly worked out epics. ignore the irrelevant cover, just enjoy the yarn.

THE EARTHSEA TRILOGY

Ursula le Guin Penguin £1.75

Containing, Wizard Of Earthsea', The Tombs of Atuan' and 'The Farthest Shore', each a highly acclaimed novel of magic and heroism in the community of islands which makes up Earthsea. The thread follows the rise of the

young goatherd Ged, as he discovers his own magic and rises in power and authority to become a Master Magician and battler against powers of evil.

A blockbuster of a book..both in story..and in size, with close on 500 large-sized pages. If you haven't all ready encountered 'Earthsea' and are a lover of the ancient magics, then rush out right away and snap up your own copy. At this price, they'll not stay long in the shops.

THE FATE OF THE PROENIX

Sondra Marshak & Myrna Culbreath Bantan 85**79.** 

Being a sequel to 'Price of The Phoenix' makes it difficult to find what has gone before in the mis Star Trek novel. purple prose and vanVogtian introspection

of the opening doesn't help. Omne, enemy of Spock and Kirk, has been killed once, but has been re-born to plot against them and the Foundation. Kirk has been duplicated; one persona staying to run the Enterprise, the other accompanying a Ronulan Commander as her lover. Complicated rituals form a counterpoint to Onne's plots in a yarn which should be a delight to all ST fans, although there is little 'Star Brek' activity of the kind we all know.

THE MASTERS OF SOLITUDE

Methuen Magnum £1.50

Another post-atomic-war setting, this time Marvin Kaye & Parke Godwin populated by a bucolic, agrarian society in which both 'magic' and telepathy are everyday facts of life. There is also a 'City' protected

by a 'Self Gate' which kills enjone unfit to enter. No communication exists between city and country, but when plague threatens, Garick, the King/God appeals to the City for help. When he is ignored, he sets out to raise an army to gain his ends. A delicately crafted yarn, with touches of Earth Abides . It is all the more powerful for the slow, steady build up and an absence of the stereotyped sex, sadism, blood and gore so prevalent these days. Read it and savour.

Not SF, but just Dick writing from beneath his main-stream hat. Jack Isidore is a believer P.K. Dick in Shaver caverns, Mu, and a first-rate schmuck. Methuen Magnum £1.25 His story intertwines with those of his sister, her husband, and Claudia Hambro, a UFO nut. Each has problems, sister has eyes on a young student and her husband wants to kill her for making him do her

shopping. No crises, just everyday events seen from varying viewpoints.

DREAMSNAKE Vanda McIntyre Pan 95p Sometimes I wonder what SF authors would do without a postholocaust world for their stage. Here we have 'Snake', a healer who uses a trio of snakes to aid in her cures. When one of them is killed, she must go in sparch of a

replacement...Not an easy task on a dusty world of nonadic peoples who fear the Healer as much as they respect her. Really a tale of people and their reactions to the strange. Parts of the yarn originally appeared in Analog and here is the book length version which is a Nebula and Hugo Award winner into the bargain.

THE HITCH-HIKER'S GUIDE TO THE GALAXY Based on the radio series, Arthur Douglas Adams Dent is opposing the denclition of his house to make way Pan 80p for a by-pass. Then the Earth gets denclished as a FTL route comes through. Dent is saved by Ford Prefect (an alien in disguise) who is researching a new 'Guide'. Together they embark on a serendipitous tour of the Galaxy, aided..and hindered by quotes from the original edition. Entertaining throughout and extremely funny in parts..I found the book version for more emusing than the radio show.

Jack Williamson with all of them centring on Eron. which therefore has a lovely tax setup. Then adventurer Horn accepts the job of assassinating the head man and is immediately involved in a power struggle and an uprising. Something on thelp wondering just how many permutations on 'Star Thingys' we may expect to see in the future.

THE CITY AND THE STARS

Arthur C. Clarke

enjoying a hedonistic life and a thousand year life—

span followed by repeated rebirth. Machines answer

the lightest thought in this veritable but enclosed Utopia...but

newly of age Alvin wants more and sets out to escape the city. He reaches
the telepaths of Lys, the fortress of Shalmirane, then on to the stars and
an encounter with an entity of pure thought. A classic of SF, still one of
Clarke's most poetic works possessing a strange, dreamlike quality which
lures you throughout. If you haven't read this before..grab this chance
with both hands.

GET OFF THE UNICORN

Anne McCaffrey

on the 'speculative' side, and often downright tales of romance. There's interstellar transport by telekinCorgi £1.25 esis and an alien attack by mental power. Future farming, a homosexual wanting a son; some soft porn, a spot of male maternity and a boy who 'finds' lost things. A child criminal telepath, another youngster's first dragon, even Helva is here with her singing ship. Feminists may howl over Ms. McCaffrey's frequent assumption that most women want metes and mating, but overlook this (and a support for homosexuality which miggles me) and you have as good and varied a collection as ever came down the road.

HOFFNUNG'S HARLEQUINADE
Gerard Hoffnung
Dobson £1.25 hardcover
95p paper.

Rather a slim little book, but packed with those delightfully off-beat Hoffnung cartoons which twist reality just enough to produce a laugh from just a little more than the everyday. If, like me, you go for a good cartoon collection, try this. and for

the price difference, make it the hardcover. (My own favourite is the one about the robot tea making machine...lovely stuff!)

Andre Norton

Second in the Dan: Thorson series of the adventures of a young cargo apprentice on the trader Solar Queen. This Methuen Magnet 70p time the traders set down to deal with the Salariki and find a rival Inter Solar team horning in. The poachers

are seen off by the honest traders, a good trade is effected, but as the 'Queen' journeys home, a strange plague begins to strike down the crew..

All good, standard adventure stuff with baddies v goodies and perhaps a bit more gory detail than the average juvenile/teenager tale. I must admit I much prefer Dane's black and white escapades to the posturing of that other fictional trader, Nicholas van Rijn. This one would make a good post Knas present if you're too late for the 25th

THE GLITTERBALL

Howard Thompson

Another juvenile, this time the tale of a melon-sized starship which crashes on Earth. Its pilot, a steel Mothuen Magnet 65p narnle hunts for fuel and is found by a youngster named Max. There are plenty of incidents to keep the pot

boiling with plenty of aircraft and bike, name-dropping. there's even a nasty villain in the form of a smelly old tramp. Suitable for the lower age range, easy reading and nice clear print ... also some illustrations.

A HERITAGE OF STARS

C.D.Simak Methuen Magnum 95p 50th. Century Luddites have destroyed every vestige of technology and left a back-to-nature America. Tom Cushing reads of a "Place Of Going To The Stars" and sets off to find it, on the way acquiring companions

in the form of Rollo, the last robot; a 'sentient', a man who talks to plants, and a mindless girl. They meet 'ghosts' nomadic bands, intelligent stones, plants and aliens before reaching their goal. Virtually fantasy and with that gentle 'other days' style which Sinak does so well. and sadly, so of Hen, Therein lies its weakness ... a good read, but like so many recent Simaks

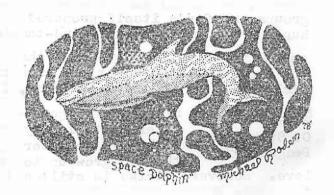
Charl's Forrester, a deep-freeze accident case, is revived in the 26th Century to a world in Frederik Pon . which his million dollar savings are quickly eroded Panther 95p by inflation. Helped by his joymaker (a computerlinked device with enhancements) he finds a job aiding a Sirian prisoner but then fells for. of murder and a Sirian plot, before he manages to pull off

a quick-fix ending. I found Forrester pig-headed in avoiding every chance to learn about his new environment, but otherwise, this is a light hearted and enjoyable yarn....and maybe 'joymakers' aren't that far in the future.

### THE VOYAGE OF THE SPACE BEAGLE

A.E. van Vogt The classic collection of space Panther 75p exploration yarns

from van Vogt's formative (and best) years in Asf. Extra linking material has been added in the form of a neglected expert in the field of 'Nexialism' (the science of joined disciplines). The voyagers encounter alien beasts, and intelligent but malevolent galacy, hypnetic light patterns ans others. I suspect the film 'ALIEN' owes much to 'Coeurl' and Likewise Shaw's 'Ship Of Strangers's



All in all, an excellent 'read'

THE VORT PROGRAMME

Agent Cain of the Atlantic Federation is sent to enrol

John Rankine for a psychology course, but is given no set mission. Then,

Dobson £4.25 an attempt is made on his life and he encounters androids

replacing human beings. Southern Hemisphere agents link

up with master criminal Vort in a bid to infiltrate and take over the Federation. The action is never allowed to flag. It grips you from the start and

never lets go as Cain works deeper into the mystery. The action culminates

with a one-man blitz on Vort underground hideaway. Substitute Bond for Cain,

and this yarn would fit superbly into the long line of highly successful and

spectacular 007 films. If you like a good action-agent yarn, this is for you.

Paul Scanlon and Michael Gross
Wyndham £2.50

Recommended \*\*\*\*\*\*\*

A large sized, beautifully produced paperback collection of stills, pen-and-wash drawings, paintings, design sketches, model photos, production shots together with several descriptive essays giving background detail as to who did what, the problems which arose and how they were solved. The whole package forms a superb account

of how the film grew from the gern of an idea into a spectacular film. The meticulous detail is staggering, no atmospheric or credibility detail being overlooked. If you haven't seen the film, this must be the next best thing. If you have had the pleasure, then you'll want the book as a souvenir and visual treat. Unlike nost 'arty' books with contrived themes, this volume has all its colour, art and expertise channeled into one direction...the film ALIEN...and this makes it a winner. Highly recommended.

THE UNORTHODOX ENGINEERS Fritz van Noon specialises in solving impossible problems by unorthodox means. Here, in five highly improbable and implausible situations he pulls the rabbit out of the hat to build volcane based railways on Cannis, and piezo-electric powered subways on Tazoo. Then he destroys a force wall and a load of aliens; sorts cut a variable-gravity planet and winds up using a black hole as a king-sized lathe tool. His problems are not of Analog calibre, being very much 'straw men' set up to be knocked down. Otherwise, if you suspend your critical faculties the yarns are plain entertainment with no ideas above their station. Good light reading.

Philip E. H.gh first spreading a virus designed to attack brain cells. The plan goes astray when instead of killing off humanity, the virus removes a mind-block installed millennia ago by an even more powerful (and fearful) galactic race. As a result, humankind acquires vast parapsychical powers, contacts other galactic groups and finds itself prepared to deal with the aggressor — and then to go hunting for the original mind-tamperers. Sheer wish-fulfilment, but so smoothly and deftly developed that I just couldn't put the thing down until the last page. No doubt the high brows and notivation-analysis pishers will dislike it, but being a low brow, I enjoyed it immensely.

Sirius, a large sheep dog, is the culmination of many years!

O. Stapledon
Penguir 85p

Trelone's daughter Plaxy, it has human intelligence so that as the two grow up together, their relationship strengthens into closeness brings hostility and suspicion.

A classic of SF and probably the nearest Stapledon has come to a human story in a tale of beauty and pathos.

THE STRAYED SHEEP OF CHARUN In the far future, the churches have prospered and the planets of the galaxy are governed by the J.hn Maddox Roberts United Faith. When the Roman-style planet, Charun Dobson £4.95 is re-discovered, it is an abomination for its slavery, its gladiatorial arenas and above all, for its genetically-warped 'constructs'. Militant Father Miles and gentle Franciscan Jeremiah are sent to change the regime, and are aided by Parma, a warrior who sold himself into slavery to aid his tribe. Essentially a 'near-invulnerable' agent tale against the rich background of the United Faiths. SF seldom tackles religion, Here the theme is handled well and with dignity as the yarn develops smoothly and the characters and background come alive. I fancy it might even get Award nomination..it deserves it, as it's a rattling good tale.

PULSAR 2 Ed. George Hay. Penguin 75p

A collection of stories and articles opening with undersea colonisation, followed by a tale of a casualty of an inter stellar war. Alien mating ceremonies, participation TV and an interview with A.E.van Vogt (saying his first story

was 'Varlt Of The Beast', when in fact three others preceded it). Then you get a future African war, a 'murder' in space and finally an excellent article on atomic bombs and energy. both of fact and fiction. Good value.

APEMAN, SPACEMAN

Harry Harrison Penguin £1.25

more ambitious collection, this time of anthropological Ed. L.E.Stover & SF. There's a spot of verse, a cartoon and an essay which links each tale into the overall theme of humanity, its meaning and possible offshoots. There are more than 20 items, including such goodies as Clarke's 'Nine Billion

Names Of God' and Heinlein's 'Goldfish Bowl'. You will also meet Neanderthal footballers, intelligent apes, dolphins and humans as experimental animals. In short something for every palate and enough variety to make it all interesting...with the co-editor's essay arguably the best item.

When nuclear physicist Cameron travels to Australia to settle THE IMPERINO details of a new radio telescope, he happens to spot a nova in F & G Hoyle the galactic centre. He realises its potential and proceeds to make his own arrangements for survival. Rather slow to get under way, and with as many facts and figures as a Gernsback yarn..but once it gets gping the tale builds into a near-classic of disaster as the nova's radiation reaches Earth. One of Hoyles F & G's better stories.

John Wyndham

Penguin 95p

Another disaster novel, this time a classic re-issued. Glowing objects are seen in the sky, they fall into the oceans and vanish. Time passes and shipps begin to vanish. Steps are taken and the menace oscalates as littoral

villages are cleared of people. After nearly thirty years, this still reads well as tension mounts bit by bit. To be hongst, I enjoyed it better at this second reading than when I first read the tale way back in the fifties.

THE DEMOLISHED MAN In the world of the 24th Century, telepathy and its use Alfred Bester in crime detection make premeditated crimes impossible. Then, Ben Roich sets out to commit the perfect, undetected murder. Penguin 85p How he commits the deed, and how he is traced and caught, make this a classic of the genre. The tale first appeared in Galaxy in 153, and is still as fresh, compelling and top level science fiction as it was then. If you haven't read it ... treat yourself to a treat.

Zach Hughes
Hale & .80

A mining ship from the Ankari matriarchy ("snug in its orbit behind the satellite". sic) has established a base near a small American town. The operations begin to attract attention from a minor big-wig and Toby, one of

the aliens falls in love with a local girl. To complicate motters his partner Jay dabbles in genetic engineering with the aim of increasing his life span. Things come to a head when their discretions are uncovered; racial memory is brought in and also an interstellar quest before all is resolved. The ending tails a bit, but otherwise, good, light escapist fiction with a well-detailed background.

THE ION WAR Colin Kapp Dobson 24.95

Terra is oppressing its colony worlds, and when Major Dam (would you believe), Stormdragon is called for tithe service (just how does Terra rely on tithe space forces from colonies it is oppressing?) he is framed for murder and made

into a superhuman 'ion-warrior'. Trained by the beautiful, sadistic Absolute, his story is paralleled by that of cardboard L.am Liam who is leading the colonists in revolt. Plenty of thirties style action cum space opera with the valiant colonists knocking hell out of the cruel Terrans as Stormdragon survives fiendish tortures to save everything in the last reel. A real potboiler, jam-packed with escapism. If action, high, wide and handsome is your bag, then this is for you.

THE WORLD'S BEST SF 4

A large-sized anthology of ten stories opening with

Ed. D.A.Wollheim Brian Aldiss detailing a meeting and conversation

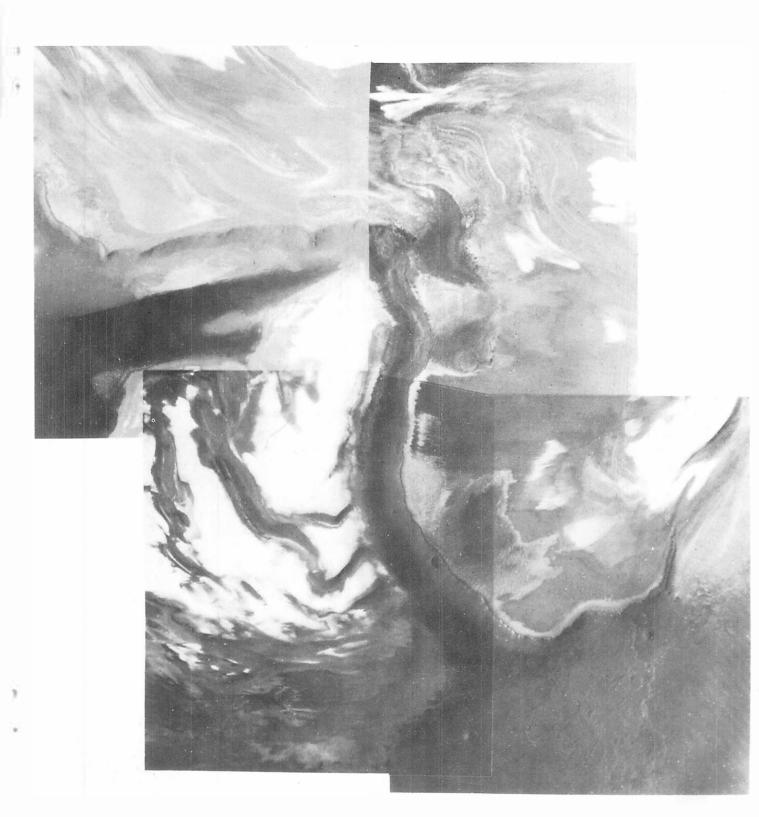
between two holocubes. John Varley tells of a man losing his identity in a computer; then there's a tale of lost youth and spaceship-spetting. A sequel to Wells' Time Machino is followed by a recreation of an old-style alien visit and world saving. Then there's Asimov's superb tale of a robot in search of humanity, Bicentennial Man'. Bayley has an indescribable space romp; Russ produces a story of strange mental powers. Jame Tiptree supplies a New-Wavish and rather heavy going bit of space adventure and the volume winds up with Damon Knight's yarn of the invention of a time viewer. I'd rate this as the best 'World's Best', so far and excellent value at the price.

Trevpr Koyle
Panther 95p

Holy Cross Mountain holds a deep mine neutrino detector and is also a focal point for the Telluric Faith Society..whose members don't take kindly to the scientists..or to writer Frank Kersh. They blame the project for bad weather, strange

babies and earth tremors. Kersh investigates and the mystery comes to a head. This holds you and has you guessing throughout. then Hoyle loses his grip, slips into a heary old SF ginnick and hangs things in the air... but if you don't mind such endings, then you'll probably go for this tale.

By a rare coincidence, I had the very great pleasure of hearing Mr. Fanthorpe speak in Sheffield, the day before this book arrived. Older readers will remember him as the power behind several dozen pen-names and writer of greystoke Mowbray such gens as 'Tales Of The Spaceways', etc. This time, with some seven years of writing and revision invested he and his wife have produced this heroic fantasy in which Mark Sable, ex-con and misfit is transported to the planet Derl, where he had been in a previous incarnation. You will neet barbarism, terture, magic and arch-villains in abundance. Not being a fantasy lover myself, I hesitate to rate this one, but if you like the field, then I fancy this will appeal..and if you can get the author to speak at you club...don't miss the chance.





Viking News Center Pasadena, California (213) 354-6000 Viking 2-39 P-20476 July 31, 1978

A LAST VIKING LOOK AT THE NORTH POLE OF MARS — This four-frame mosaic is made up of the last pictures transmitted from Mars to Earth by NASA's Viking Orbiter 2 before engineers at the Jet Propulsion Laboratory shut it down July 24, 1978. The region photographed is between 79 and 84 degrees north latitude near the edge of the north polar cap, and it reveals a broad plateau dissected by a canyon. The plateau is formed of many individual layers, and these are exposed where erosion has uncovered distinctive patterns of roughly parallel stripes as evidence of the layering. The season is mid-summer on Mars, and strong solar heating has caused winter deposits of condensed, frozen carbon dioxide (dry ice) to sublime back into the atmosphere — leaving behind bright patches of water ice. The ice clings preferentially to flat or slightly north-sloping areas, while slopes with southern inclinations are defrosted by the greater amount of sunlight they receive. A comparison of these recent Martian-summer Viking Orbiter 2 pictures of the north polar region with those taken during the last Martian summer (1976, also by VO-2), indicate that the north polar cap had significantly less ice cover during the 1978 summer than during the previous summer.