

APATITE #1, aka Fandiary Amateur Press Association. February 17, 1979. Contents include: Coverts end to califorateMarc Schinmeister1Table of Contents:Dan Goodman2GILRAVAGE #1 of the califorationLee Gold2 AND ALL THEY EVER FOUND WERE SOME BONES Dan Goodman [Later-arriving zines specifically for APATITE will be inserted here. Those which follow are multiapazines or overruns from other apas.] CLEAR ETHER! V.4 #2 Sam Konkin 4 THE HORROR OF THAT MOMENT I SHALL NEVER, NEVER FORGET V.A #2Dan Goodman10PIZZAS OF EIGHTAlan Winston8THE ONLY GROOD...Dan Goodman4 THE ONLY GROOD... Dan Goodman INTENTOAL IS MISSPELLED Dan Goodman 2 IT'S ONLY A SMALL DOMESTIC... Dan Goodman 3 THE BEST OF CELIA CHAPMANDan GoodmanTHERE IS NO SUCH THING AS...Dan Goodman 2 2 NASA BULLETINS Andruschak 14 2 Back Cover Andruschak

Next mailing deadline: March 17, 1979. Thereafter, till further notice, 2 pm on the third Saturday of the month. Copy count for #2 will be 20, for #3 not established yet.

tine is

Rules, such as they are:

CONTRIBUTIONS should be two singlespaced 8 1/2 by 11 pages or equivalent. Paper size should be close to that. Overruns from other apas cheerfully accepted. (I hope to reduce the percentage -- but by getting more material specifically for APATITE, rather than by barring other-apa material.)

Contributions may be excluded at the Warden's discretion, which will be exercised sparingly. Reasons for excluding contributions include:

1. Paper impregnated with human semen.

2. Illegibility above and beyond the call of eyestrain.

3. Publication under a false name, if the Warden consideres this likely to cause undue friction.

4. Excessive liber.

5. Included bulky objects, like syringes and pebbles.

Contributions may be held over till the next mailing if 1)There are more contributors than copies to go xxxxxxxxx around or 2)The added material would put pagecount over 150.

If contributions must be held over, those done specifically for APATITE will be included ahead of those done for other readerships.

Copies go first to contributors. Then to those who contributed last time, those whose zines were held over, buyers.

COST: Contributors (including those who only contribute a page) pay postage if it's needed -- plus cost of envelopes, if needed. Those who contributed two or more pages the previous mailing also pay postage. Others pay 25¢ per 25 pages. Credit will be hard to get. VOTING: Any contributor may call a vote by stating at the start of their zine (just after the colophon) that a vote is being called. It should be clearly stated what the issue is, and what a yes or no

Votes will be taken in the following two mailings, from those who put their votes at the beginning of their zines,. A motion will carry only if a majority of those contributing to the two mailings vote yes.

vote will mean.

If the vote is to replace the Warden, the replacement must be named and must have agreed to xxx serve.

The Warden may designate any vote as a Vote of Confidence. That means if it goes against his wishes, someone else will have to take over.

PRINTING: I can't do it, but may be able to arrange it. Ask first.

I will operate APATITE for a minimum of six monthly mailings. If I'm not satisfied that it's worth my continuing after that, I will first see if someone else wants to take over and then fold it if no one else can be found. One of the theories on which I'm working is, if an apa appears frequently and on time, it will be viable.

What I'm hoping for is a high degree of communication. Exchange of personalities and information. I can do without ingroupishness and cleverness for their own sake, and am hoping they will be at a minimum here.

A few words about covers: I don't care about them, and would cheerfully do without them entirely. I will not pay to have them printed, or do anything else to encourage them. I will accept covers, as I accepted these. A cover artist who does a one-page cover will get that mailing, while one who does a two-page cover or a one-page cover plus at least one other page of material will get two mailings.

For an LA-based apa, this is almost as heretical as not arranging zines by paper color. I'm that kind of heretic also. Zines will be arranged in whatever order I feel their contents call for, with those arriving earlier tending to be first and those specifically for APATITE near the front.

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Cories of first to copy list or . The second of the sour finites is time, those where size: were build and the constants.

Contributors Vision three should be build a taye) as a set of if is new solar cost of envoices, if needed. Thus is contributed to some press the new rule motifier clac pay provises. Others of the part of the true of the bard to get. GILRAVAGE #1 February 7 1979 by Lee Gold 3965 Alla Road. Los Angeles, CA 90066 391-3636 a xeroxzine done in the days of the paper strike for Dánzápá Apatite.

It's always strange starting off a zine for the first issue of a new apa. Not only are there no mailing comments to make, but one doesn't even know whom one is addressing. (this spot inserted for Alice in Wonderland reference ...) Normally I start off a new apazine by introducing myself, but chances are all of you out there think you know me.

For those more wary of generalizations (or more removed from LA fandom), I am 36 years old and pubbed my first fanzine in August of 1967. Currently I'm editing an apa for Fantasy Role Players (D&D, et sim.) called ALARUMS AND EXCURSIONS, which has the dubious distinction of having circa 40 contributors per month--and eirca 600 non-contributing buyers. I have also been or now am: a dental assistant, a check casher, a college English teacher of Exposition. a translator (amateur) of Japanese comicbooks, a secretary for quality control in an engineering company, a door-to-door magazine salesman, and a juror. I have numerous $\frac{1}{1665}$ interests (even science fiction) and look forward to a chance to chat about them in a new environment (and hopefully with a few new people).

On the next page you'll see five results of something I've been meaning to do RealSoonNow ever since I heard my first filksong session in 1968. I can't sing on other people's tunes at all, though I'm marvelous at remembering the words to a song--and even occasionally perpetrate a filksong or two. On first hearing "The Orcs' Marching Song" it occurred to me that it could do with a few more verses to fill in various of the major episodes of LotR that the filksong as it stood left untreated. But the words just didn't come...until two weeks ago, when I happened to drive home in the rain from the currency exchange a couple of weeks in a row and found lyrics suddenly coursing through my head with the window wipers beating an accompanying rhyhtm.

It's always been a popular fannish amusement to attempt to add new verses to Young Man Mulligan, but It's already got so many that it's hard for a new verse to catch on, especially since the song has no internal order so there's no special place to put a new verse but at the end, when the singer is already weary. I think turning talents to filling out the Orcs' marching Song would be much more productive. Now if I could just think of a zippy verse about the Demise of the Nazgul King...or Pippin and the Palantir....

Anyway, best luck, Dan, with your new apa. May it flourish and grow and grow...but not before the paper strike ends.

SOME SUPPLEMENTARY VERSES TO

THE ORCS MARCHING SONG

Gandalf had a nasty slip when the Balrog cracked his whip, And they gave him up for dead and took to flight; But a later diagnosis shows he reached apotheosis And he changed his dirty clothes for robes of white.

Oh Gondor's mighty walls lie far from Rauros Falls But they still could hear the horn of Boromir, For he could not grab the ring, 'cause of Frodo's vanishing, And the waves of orcs were getting awf'ly near.

Peregrin and Merry of the Orcish brew were wary And had dark suspicions of what might be in it, But went on an Entwash trip, after just a little sip And soon started growing taller by the minute.

Grima told Theoden King, "You are old and weakening," But could not hold out against Gandalf the White. He soon lit out from the court, for the day was getting short And he had to be at Isengard by night.

Gollum's solemn oath doomed the Ring and Gollum both, So he jumped with it into the Crack of Doom. Sam and Frodo felt quite nervous, 'till the Eagle Taxi Service Picked them up just after Barad-dur went boom.

--Lee Gold

As I write (on the third), the material which has come in so far for APATITE's first mailing is all material which most of the contributors will have seen elsewhere. There is my fandiary and overruns of Lzines, Konkin's multi-apazine, Andruschak's NASA stuff. I expect this to be less of a problem as APATITE develops its own character and as I recruit people from outside LA who won't be familiar with the Lzines at least. (I will want some help with that, by the way, from people with more out-of-town contacts than I now have.) But I thought that, for the first mailing, I should provide some material not likely to be duplicated and a second

Now, it happens that the songs I know the words to are, some of them, songs few other people seem to know. So, after explaining what the name of this apa means, I'll print a few of them.

Apatite is a mineral. Roughly speaking, it's a calcium compound which, among other things, is a major component of bones and teeth. The chemists here can probably provide more information about it.

Now, I'll start off with something I wrote myself, and which I think has appeared once before -- in MINNEAPA:

I've laid around and played around this old world to long Sumer's almost gone and Rome is coming on I've laid around and played around this old world too long And I've around to be drifting along.

Mother writes to Grendel, but Grendel can't come home No, Grendel can't come home, no, Grendel can't come home. Mother writes to Grendel, but Grendal can't come home He's been eating at Heorot too long.

Next is from MORE RUGBY SONGS. I have no compunction about violating their copyrights, because 1)I figure folk songs of any kind are in the public domain and 2)the first book in the series has a notice that anyone whose copyrights have been violated should get in touch with them and they'll settle out of court.

THE ANCIENT OLD IRISH FRENCH LETTER

I was up to my ****hole in turfmold, At the peat contract down in the bog, When me slinnie struck something hard sir, Twas a stick or a stone or a log.

Twas a chest of the finest bog oak sir, And I wondred just what it might hide, So I chanced my luck with the fairies, And took just a wee peep inside. droot #11 arts 2 402 504 1710 (.f?) drow .8 2 2 Now I know that you'll never believe me, col iTwas almost too good to be true, for a fight application Twas an ancient old Irish French letter, A melic of Brian Born.

A relic of Brian Beru. Yes, an ancient old Irish French letter, Made of elk hide and just one foot tall, With a wee golden tag at the end sir, with his name and his stud fees and all.

And I cast my mind back through the ages To the days of that hairky old Celt, Granwaille on the bed lay, And Brian Beru in his pelt.

And I heard him remark rather sternly, "Now listen we must get this right, Just as sure as you had your lay last night, 'Tis the hairy side outside tonight."

Note: A slinnie is a shovel for digging peat mold, as you might have guessed from context. I presume either everyone knows what a French letter is or can figure it out.

Next one I heard around 1960, when it was a popular for a bit in folk circles. Originally from Jamaica, I think.

LINSTEAD MARKET

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He told me to meet him at Linstead Market, at the hour of ten. He told me to meet him at Linstead Market, at the hour of ten. Oh, what a night, what a night, <u>state office</u> Oh what a Saturday night.

2. Everybody goes to Linstead Market, at the hour of ten.

3. I waited and waited at Linstead Market, till the hour of twelve.

4. He sent me a message at Linstead Market, at the hour of Twelve.
5. Sorry not to meet you at Linstead Market, out the hour of ten.

7. I was getting married at Linstead Market, at the hour of ten.

Meet me tomorrow at Linstead Market, at the hour of ten. Meet me tomorrow at Linstead Market, at the hour of ten. Oh, what a night, what a night, Oh, what a Sunday night.

Information gleaned from various sex manuals pried

595 The man always knows more than the woman. This is true even for things that "nice girls" do, like kissing. (This not found in some of the newer books.)

An icecubeapplied to the scrotum during intercourse adds to the sensation. is a voting no

It is highly impolite to askx for what you want. It is, of course, quite polite to indicate it without saying anything aloud. Polite methods of indicating one's preferences include moving a part of one's body nearer a hand or mouth, making pleased (or unpleased) noises, leaving a sex manual around opened to the relevant page.

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e tress In the newer and less marriage-oriented books: If you are in a threesome where one of the other two is of the same sex as you, or in a group-sex situation, and you get ix kind of involved with someone of your own sex and enjoy Hell a out of it, that doesn't mean you aren't completely heterosexual. Derev die sidt

istake. (Sudttediv, this f' One book wixis meant for men advises doing fairly strenuous exercises to keep in shape for intercourse. Apparently, however, If there is no need for the woman to have any strength at all.

VIXOON MIT Meanwhile, there are people who learn about sex from conversations with friends and neighbors. Some of this information is also rather interesting.

For example, I learned from overhearing a conversation between two female co-workers that oral sex weakens a man . Whether in the active or the passive role, I was unable to determine. And I didn't quite have the nerve to ask.

so ni so SVEN Back to books: one has an interesting exercise for men who want to engage in oral sex in the active role. Cut an orange in half, and for about half an hour lick up any and all juice.

This being a British book, one might speculate that British women have genitals which taste like oranges. Alternatively, any man who is turned off by cunnilingus might do well not to drink orange juice in Britain. in the too the back

stasamoo geit. There are, of course, any number of books which contained equally interesting information but which I haven't yet read based For example, Rona Barratt's HOW TO LOOK RICH AND ACHIEVE SEXUAL ECTASY. That title is extremely promising.

Personally There are also, of course, more specialized works. Like GOOD VIBRATIONS. Among other interesting information, it seems that there are now people who collect "antique" vibrators. (Preferably in working condition.) waitlisters vel age miner

the Greet Day There is also at least one paperback edition of a Christian (that is, fundamentalist or conservative Protestant) sex manual. Presumably, there is an Orthodox Jewish sex manual and probably also a Conservative Jewish sex manual. are convince

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when whit leastop THATA IN SECTION Why I started APATITE: I was getting a bit tired of not being able to figure out what harebrained idea the person running an apa would come up with next, and not being able to do anything about it when I did know. Running the apa myself, I wouldn't have such problems.

Other contributors don't have quite the same assurance, but I can provide some guarantees. There is a voting mechanism, which APA L, SCAPA FLOW and LASFAPA has had one vote in its history -- and when the results didn't come out as Marty Cantor wanted, he reran it till they came out porperly. Till which time, he operated as though it had gone completely his wax way.)

I will guarantee that certain things won't be changed. This will remain an open-contributorship apa, and will not be converted to a membership apa. (Unless a majority of contributors vote otherwise, in which case someone who wants to run a membership apa will have to take over.) I will not raise the pagecount past 150, though this can be voted upward and I may include a few extra pages by mistake. (Admittedly, this first mailing will almost certainly not reach anywhere near that limit. But later mailings very well may.) If and when APATITE starts regularly having zines held over, I will consider making it more frequent -- biweekly to begin with, but no more than weekly.

It's my feeling that an apa should be run with a minimum of avoidable fuss. I'm going to try to run APATITE that way.

To some extent, APATITE is already in competition with both LASFAPA and SCAPA FLOW. SCAPA FLOW because of my timing -- I could probably have gotten a few more initial contributors if I'd started it before SCAPA FLOW was launched. And also because I think APATITE is, in some ways, better suited than SCAPA FLOW to perform the task both SCAPA FLOW and LASFAPA were originally intended for -- helping ooties keep in touch with LA fandom. With people free to put through zines from other LA-based apas, there's more information available \star to the otties.

LASFAPA is competing with APATITE because Marty Cantor feels it is. He was kind enough to frank a flyer through LASFAPA, and send it out to the waitlist with the official organ. But among other comments in the official organ, he pointed out that it would be difficult for the waitlisters to contribute to two monthly LAbased apas, and that any waitlister who opted for APATITE would be missed.

Personally, I don't see why contributing to two LA-based apas is more difficult than contributing to one based in LA and another based in, say, the Twin Cities -- as several LASFAPAns already do. And considering the length of the LASFAPA waitlist, I can see some waitlisters using APATITE as an interim apa while they're awaiting the Great Day of joining LASFAPA. (If I try running another flyer through LASFAPA I might try exactly that pitch.)

APATITE competes in another sense: Both Cantor and Andruschak are convinced and apa open to all contributors is much less all practical than a membership apa, on a monthly basis. I think the example of ALARUMS AND EXCURSIONS shows otherwise.



PART TIME LOVE #1

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a zine for Dan Goodman's new apa, by rita prince winston

I'm not exactly a big Elton John fan, tho' Dan owns many of his albums, but I do rather like the song whose title I swiped for this zine. But more important in its choice as my title is how apropos it is for a second apa. (Whether this is my second apa or my third is a matter of definition.) As of the official date of this disty, I will have been in APA-L some 130 weeks, doing zines for most of them. APA-L is my first and favorite apa. I was in LASFAPA for a while (over a year), but I found the 'mellow and considerate apa' to be full of obnoxious and vicious types, and too much of a pain to continue. I never had any craving to be an omniapan, and I'm mainly joining this apa to read more of Dan's lovely writing. If my brother should happen to join, that would be a double advantage---he isn't even in 'L, so I NEVER get to read his zines.

I probably should do something in the way of introducing myself to any strangers who may be out there. My name is rita prince winston. My brother is /the famous/ Alan P. Winston, known as Wol. (I use the convention that words or phrases proceeded and followed by slashes are to be considered slashed out, since I can't do overprinting using the text editior.) I live at 3608 Keystone, Apt. G, LA, CA 90034, (213)557-5265, with Daniel Deckert, who is an engineer (*ugh*), a fanartist, a member of the LA in '81 Worldcon bidcom, head of programming for Mike Shupp's Loscon-com, and current President of LASFS. I /obviously/ work as a computer programmer-operator at a company named Medic-Aid. I dropped out of Bryn Mawr /fast before I flunked out/ halfway through my junior year---Spring '77. (I am finally getting my A.A. from Santa Monica College after a mere five years of college.) I have two boofle cats, Lucinda Felicity Cat-Winston (Cindy), and Peregrine Cat-Winston (Pippin). Cindy is a beautiful, elegant lady in a gaudy black and white fur coat. I guess she's three years old now. Pippin is an aggressive, destructive, dirty, loud, cuddly, cute, gray tabby tomkitten (seven months, now). I want an orange cat as well, but Dan says no.

I always have a hell of a time trying to think of original natter without even other people's previous natter to inspire me. Not even knowing whom I'm speaking to doesn't make it any easier. The most I can usually do is a list of unconnected little remarks, collected over several days, and usually reeking with self-pity---one of my main vices, I must confess. I've rotted my brain with too much fanac, and can no longer write more-or-less well connected essays on 'The Relationship between D&D and the World-View of Gordon Dickson' (my first, second and third LASFAPA zines). I can still do okay writing comments to people's comment hooks, but comments seem out of place in the first disty of a new apa. I nonetheless may yet fill my minac with APA-L comments--the APA-L and FAPA comments in the first disty of LASFAPA (really, I'm not trying to pass as an old-timer) started a fair amount of conversation.

>>>>By the way, do you know what 'conversation' really means? The Latin root: 'to turn together' has been taken to mean 'to face each other', so that 'conversation' is another name for amorous congress. <<<<

P.O. Box 64700, Los Angele

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Gee, I've finished one page. I wish I remembered whether minac is two pages or four. That's OK, tho', I don't remember the copycount, either. But I do remember the deadline (Feb. 17, right?), and the rest can be checked.

I remarked in APA-L the week before last (or the week before that, as I write this) that it is difficult to first draft typer-character decorations on a video with a different typeface than the printer one will print them on. It is even more difficult when the line length one will print them with is longer than the width of one's video's screen. Still, I believe I have designed this one successfully.

If this gets printed successfully, it will be a miracle of no small order. The system has been down almost all of this week----the operating system got hung up and I had to reboot and run disccheck just the other minute, so I lost this paragraph here which I had in my text editor's text buffer but had not output onto the disc. We have been having terrible troubles with all the hardware and all the important software all week, to the point where it really doesn't matter that our printer is practically non-functional and the loaner printer is almost worst. Our printer eats ribbons, which would be OK if it also printed with them, but it prefers to put one immense smear on an otherwise virginal page *sigh*. The carbons come out just fine, tho'. The loaner printer at first wouldn't print at all and they had to work on it for about an hour. Now it has taken up eating ribbons, too.

The above was first-drafted last week and the week before, altho' with the text editor it is subject to improvement up to the very instant of printing. This in Monday the twelfth, 9:40 a.m., and so far things are better than they were last week. Knock on wood. We are at this very moment re-establishng all the programs, presumably to use a new version of the resident library, presumably fixed over the weekend. They were supposed to call me to work this weekend, but thank Ghod they didn't. I was a able to spend my time as I chose--Sunday I helped my brother move from a storage locker to his new apartment, where he has been living without a bed or any furniture but a typewriter for several weeks. Then I accompanied Dan on his regular weekly visit to his grandfather---I see more of Dan's family than of my own, and not entirely because I like them better. I would never insult them by calling them no more likable than my father and stepmother, but mu mother is a very nice person and I just never get around to visiting her. /Note my use of the classic literary technique known as irony./

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THE EXTEMPORAL SELF #1

Another zine by Mike Gunderloy, 930 N. Bushnell Ave., Alhambra, CA, 91801; phone (213)-284-0940. This is Pretzel Press publication #72, and is intended for APATITE #1.

씅샦쑭쑦샦

So here we are starting yetanother APA. Well, this time I refuse to do another capsule biography--I'm sick of that sort of thing. Instead, a few random thoughts and suchlike, to perhaps give those of you who don't know me (if any) some vague idea of what I am like.

Did you know that there is a company, apparently headquartered in LA, called APA Trucking? I don't know what the initials stand for there, but their base is on SOtc street, down by the Hoffy hotdogs factory.

Having to ride elevators quite a bit during the day, I find myself grasping at straws to find things to do while in them. One thing I have been doing is reading the inspection certificates. I have noticed that 90%+ of these have expired, leaving us with the question of just why The State bothers to inspect elevators at all, if they don't have the time to do it right. In any case, I suggest that you cut out the certificate on the back of this zine, and tape it over the next expired elevator certificate that you come across. Perhaps this will even cause one or two people to wonder about governmental overregulation.

Current Reading;

THE MISTERY ON THE SNOW, by Kenneth Robeson (another boc Savage story)

Doc Savage story) DOOMSDAY: THE SCIENCE OF CATASTROPHE, by Fred Warshofsky

MORE ADVENTURES IN TIME AND SPACE, Healy & McComas, editors

REVEILLE FOR RADICALS and RULES FOR RADICALS, by Saul D. Alinsky

PSYCHEDELICS ENCYCLOPEDIA, by Peter Stafford HOW TO KEEP YOUR VOLKSWAGEN ALIVE: A MANUAL OF STEP BY STEP PROCEDURES FOR THE COMPLEAT IDIOT, by John Muir

THE DARK SESIGN, by Philip Jose Farmer

RED BLUEPRINT FOR THE CONQUEST OF AMERICA, by Joseph H. Wherry

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AND OF COURSE THE STANDARD CLOSING:

HALL ERIS!

TRANSCRIBED.

15/297.51 NO ONE IN PARTICULAR Sec STRAIGHT THIS ELEVATOR HAS NOT -----HEREBY CERTIFIES THAT SINCE THE DECLARED INSPECTORS WERE TOO DRUNK TO LSYJ COUNTY 6100 00 000 BEER INSPECTED IN THE CNSAFE CONSEQUENTLY LOS ANGELES and and the the time the and was and and and 23 5 - OONE 720 Novas. ------いていたいこうの JEPA ETMENT NOT THE at all. Colored and 0

CONFESSIONS OF A CHILI-HEAD, A ZINE FOR APA-TITE #1, WRITTEN BY GEORGE JUMPER, CURRENTLY RESIDING IN THE CITY OF VAN NUYS AT 7107 WOODMAN, APT #16, ZIP 91405. PHONE #(213)-994-5061 I am trying to do this on my computer at work. It has no text editor, so I have built a very simple one. I am not certain of the results, but if you're reading this, you will know that I have had some success. I thought that the title would be particularly appropriate for a zine in an APA called APA-TITE. My only hope is that Ed Buchman doesn'tcome with some particularly putrid title. I suppose that he will.

I wish to direct the rest of this discussion toward some mention of that commodity which comes out of the American Southwest, known as <u>chili</u>, which is a shortened form of <u>chili con carne</u>. When I was a lad in Montana, my mother would fix a form of chili which I remember with great fondness. It was particularly good when the temperature outside was on the neighborhood of -30F or below. A good bow! of chili really warmed you up. She would also put dill pickles on the table, and I formed a a taste for having my chili with good chilled dill pickles which I have to this day. My (ex)-wife also made a good form of chili. I took her basic recipe and warmed it up a bunch as those of you who were at LASFS last spring can testify. Actually, the version (which I also took to Jim and Stasia's 4th Saturday parties) is a little too hot for my own preference, and I have since toned it down to a nice chili that is reasonably hot and which gives me no trouble at all eating, although those who are

The idea behind chili, of course, is to have a plentiful supply of a tasty and nourishing meal which you can heat up in a short while and eat to your heart's content. If there's some left over, that's all right-chili is something like a good wine. It tends to improve with age. This is of course true with most things which are of a 'stew' type nature. The spices and different ingredients have to be given time in which to blend immediately. It always tastes good. The only difference between a bowl of chili one day and a bowl of chili the next is that day-old chili almost always tastes better. When I make chili, I make a big pot which then lasts me for the better part of two weeks. I always feel a little sad when I finish the last of my chili, because then I have to go through the effort of making it again.

But enough of such talkt. I have no idea of who will be in this APA. I already belong to APA-L and LASFAPA, and the activity there is starting to take its toll. We shall see what will happen with this APA. Who knows? Perhaps it will become as infamouse as LASFAPA. It makes one want to think, as Albert used to say in Pogo.

CLEAR ETHERI Personal-genzine of Samuel Edward Konkin III for distribution in Amateur Press Associations (with companion commentzine ... AND ON GREEN!), for trades, locs, artwork and even subscription. Address all correspondence to New Libertarian Enterprises, Box

March 1979

STFNAL

FUTURE SOCIETIES: LIBERTARIAN ALTERNATIVE

Suppose you are writing a Science Fiction story set in the future. You want one or more model societies to use as background and possibly contrast. One you consider is libertarian. What should it look like; more importantly, what should it *not* resemble.

1748, Long Beach, CA 90801; Personal: SEK3.

Libertarian-like societies have been presented by Heinlein, LeGuin, Russell, Kornbluth, Anderson and others. None were written in light of the recent "explosion" of libertarian theory (since 1969); they were the author's idea of a free society independent of the new scholarly literature and movement debates. Circa 1969 even my own Rann Gold Series is obsolete. One has the extreme of Larry Niven's "Cloak of Anarchy," which resembles libertarian thought just close enough to evoke howls of "smear" from the positions attributed to the anarchists not in fact held by radical libertarians.

WHAT DO LIBERTARIANS THINK?

If you're going to write dialogue for libertarians, you should have some ideas of their precepts, jargons and obsessions. I'm not going to explain the philosophy here, just the *character* traits. Naturally, as individualists, libertarians have a great deal of variety and a great deal of differences between them, but there are some salients in common.

Libertarians are morality-conscious. Although a free speech, laissez-faire society is a result of libertarianism, libertarians are strongly concerned with morality. Usually their libertarian position derives from some higher precept: Natural Law, Objectivism, Christianity, or, in the case of the Stirnirites, denial of universal morality. Thus you could easily show a group of libertarians in a saloon or around a campfire or in a drawing room vociferously challenging each other in heated debate—but turning as one in scorn on any intruder who dared suggest resolving a disagreement by force, then happily returning to their strenuous arguments. Of course, some libertarians will disagree about this, and sit outside the talk sessions attempting

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Volume Four, Number 2

to achieve a mellow state.

Libertarians are voluntarists. While a libertarian army is conceivable, and would probably be organized as a highly efficient business company with highly autonomous units using a high degree of independent judgment down the "ranks," it would exist as anything more than a rudimentary appendix only if a clear and present danger (large State nearby) also existed. Some fans suggested in their fanfic a "libertarian police" pouncing on non-libertarians, exiling them, jailing them, or at least cutting off business with them (including feeding and sheltering). This is as absurd as a portrayal of a Christian medieval society with a "Christians for Satan" club. One might portray an "ex" libertarian society which has been taken over by statists and corrupting the name, but they will be recognized by many of the character is your society (probably from the underground).

Libertarians are marketeers. Even in the very "Left" anarchy of Anarres, Ursula LeGuin was forced to introduce a private press for her rebels to dissent from the collectivist anarchist line. The vast majority of libertarians today, even of socialistic leanings, expect a free trade society. Most see a highly commercial and technological organization in a libertarian society and view the very existence of government as grit in the gears and highly inefficient (as well as immoral).

Any attempt at business interference would strike your characters as counter-productive, competition would be exalted, and crime against life and property would arouse the populace immediately.

Libertarians are varied. While libertarians have many rigid ideologies as well as free-form positions, there is no monolithic party line...which brings us to the next section.

WHAT KINDS OF LIBERTARIAN SOCIETIES ARE THERE?

In principle all libertarian societies are alike. Culturally, however, one may not only conceive of many different libertarian societies but every libertarian society by its nature will have numerous subsocieties. From an SF author's point of view the use of a libertarian society for a setting offers the widest latitude to the imagination. Invent any non-coercive philosophy or religion and there's no reason why you

[Continued on page four]

Page 2

CLEAR ETHER! IV/2

March 1979

SKYLOCS OF SPACE

Dear Sam:

December 23, 1978

I enjoyed muchly your con report, even though it's difficult to find comment hooks. I did, however, find your comments on Doc Smith vs the feminists interesting. It has always amused me to watch perfectly rational, intelligent people attempting to judge a work of art produced in a particular age by the standards of another, usually radically different age. Tis one of the reasons I defend films like War of the Worlds, Forbidden Planet, Them and The Incredible Shrinking Man so strongly. For their time, they were all incredibly good films, but not all that great when compared to "modern" stuff. Or the work of C.L. Moore ... whose writing I only marginally enjoy, but when you think of the time in which she wrote, her stories are heads above anything else (if in nothing but style). You are aware, I believe, of my opinion of Smith. I've read very little of his stuff, and find it teetering on the border of unreadable mostly because I consider his style, ideas and development terribly naive-so much so, that I just can't accept them. I can't seem to be able to suspend my belief that far. But I don't think him a rotten writer or anything along that line. I have the same problem with most of the material that was being produced during that time. It's my "fault," not Smith's. What's interesting to note is that his treatment of women is not one of my objections. To tell the truth, I never really ever noticed it. It's not that I'm insensitive either. I recently listened to an episode of Flash Gordon and went absolutely berserk at the portrayal of Dale Arden. I guess it just takes a major "slap" at my womanhood or my intelligence to set me off. Liberal thinking can be a pain in the ass sometimes. And your review of One Immortal Man has me

wanting to read it. Now the only problem is to get my hands on a copy. *sigh of complete & utter exasperation*

Bobbi Armbruster Munchen, Deutschland

Well presented and difficult to pick apart from that position. Alas though, that thou shalt never get that rush of joy I experienced several times in reading the Lensman, especially at the end of Children of the Lens when the Eddorian lookout called "All Highest! Help!" While I dislike the movies you mention, your reasoning sounds too much like my own for defending Star Wars against the Pseudoliterati for me to do much. You seem to have an excellent grasp of the areas where you are subjective and where objectivity is required; one of the rare ones you are. As for Dale Arden, how did vou like Dale Ardor in Flesh Gordon? And far be it for me to take a major slap at your womanhood. *have a straight line* Geis's novel is being published in book by REG himself, if I got my ads straight. I shall investigate getting a copy through the international mail . . .

MY FANNISH WAYS

C.S. LEWIS SOCIETY

Since I don't have a Con report, I thought I'd write a meeting report. Alas, I've been missing so many meetings at LASFS that it would require a refresher for me to do it justice; besides, everyone goes to LASFS. -SFALB (Speculative Fiction Association of Long Beach) has been done in these pages already, and has recently been sporadic in meetings anyways. I may do one on Westmarch, the Tolkien group, but how about one that would very likely never be mentioned in any other fanzine? A CLEAR ETHER! exclusive!

I have been associated with C.S. Lewis Societies since the first year of the first one. Clive Staples Lewis was first brought to my attention in a classroom in Alberta as *The Lion, The Witch, and the Wardrobe* was read to us. Finding out there were more Narnia Chronicles in the library, I read them as soon as they were published and arrived at the library. Later, as I got into SF, I discovered the Ransom trilogy, though not immediately recognizing the authors as the same.

Joining the University of Wisconsin Tolkien Society in 1969, I discovered that a fellow member and friend (Jared Lobdell) was also into Lewis—even more than Tolkien—and that they were both Inklings. Later that year, the New York C.S. Lewis Society was formed, and in August, 1970, I attended a meeting in New Jersey.

After moving to New York that fall, I attended most monthly meetings until the summer of 1975. Originally there were a fair number of SF/Fantasy fans, but soon it was a mainly religious/literary orientation. As an atheist, not particularly literary, I suppose I have been somewhat anomalous in the society, though by sheer longevity of acquaintance I achieved a good deal of acceptance and camaraderie from the more conservative members. Several members whom I brought in or who were fans as well as "Lewis Christians" filled a spectrum between me and the mundane converts and the New York group remained fairly heterogenous and spiced with amiable differences and discourse.

In 1974 the Southern California C.S. Lewis Society was formed around seminar attendees at Valyermo by Brother Peter Ford (now Mr. Paul Ford). Although aware of the New York (and Portland and others by then) group, they were independent. Since I planned to move to L.A., I wrote Ford telling of my coming and offering what I could. I later discovered my arrival was awaited with some foreboding as I had been quite candid about my orientation and the Southern California group was almost entirely mundane and theistic.

I begin attendance in October 1975 and with few lapses, have been a staunch member and supporter since. All it took was an understanding of our sincere mutual love for the thinking of Lewis to engender respect and acceptance among us, through about a year.

March 1979

The Tolkien connection occurred here too, as Bernie and Teny Zuber were fairly regular attendees. (They are founders of Westmarch and former Mythopeic Society fen). Glen and Bonnie GoodKnight and some of their associates attended for awhile, but currently my friends are the only fannish contingent. Interestingly enough, some of the harder-nosed skeptics of my membership and commitment to Lewis have also drifted away, leaving a friendly, affable group again.

What I see in C.S. Lewis, not accepting his Christian metaphysics, would fill an issue by itself, and if I get the demand for it, I may explain it. It has had its hazards, with one atheist friend of mine attending and converting to Christianity, another is currently teetering on the brink. Above all, though, I love Lewis' mind: rigorously rational, entertainingly imaginative, uncompromisingly consistent and winningly tolerant. It's a combination akin (though not exactly) to the character I have sought to achieve myself.

The most recent meeting (January 17) is fairly typical. The third Wednesday of the month is standard, though I have had a running battle with the others not to skip December and the summer months. Last year they gave in as far as June and July meetings —and guess who was chosen to lead the July meeting! Fortunately, Father James Sadowsky, S.J., probably the world's only libertarian jesuit, was in town and I managed to bring him for a well-received coup.

This meeting began (probably, as I was late) at 7:30 P.M. with the usual introductions around the table of the twenty or so in attendance. Paul Ford was there, though no longer on the executive, asking opinions on the illustrations he had for his upcoming book on Narnia. Professor Bill Geiger presided; he, Ken Futch and George Musacchio (*The Lamppost* editor) are a threesome from Riverside Baptist College who have been pretty heavily into the organization and administration of the society. Marilyn Peppin has taken care of membership for as long as I can remember.

The meeting had been moved from its regular second-floor room in Fuller Seminary (Pasadena) to the first floor in the cafeteria room, so as not to conflict with a class. Professor Mary Mahl was guest speaker on Lewis' literary theory, but most of her address consisted of quotes from unpublished letters by Lewis which were avidly received. The usual break for refreshments of cheeses, cakes, cookies, coffee and tea

CLEAR ETHER! IV/2

The Tolkien connection occurred here too, as Bernie came between the talk and the questions rather than and Teny Zuber were fairly regular attendees. (They after introductions, announcements and business be founders of Westmarch and former Mythopeic (more usual).

Mentions of Lewis in the media are always brought up at the meetings; this time a film on his life narrated by Peter Ustinov which was touring the country was the highlight. Plans were made to attempt to get the film for a club showing (probably open to the public).

This time I brought a fairly regular fellow attendee, J. Neil Schulman, who brought a newcomer himself. The meeting broke up early at 9:30 but we usually go out with the more fannish type to a nearby restaurant (often the Salt Shaker on Arroyo Parkway) afterwards.

I'd like to get more fans to come to the meetings and of course attend our aftermeetings. Those reading this outside the L.A. area might consider checking your locale for clubs you can attend. And all might work on getting Lewis the richly-deserved Gandalf Award for Grand Master of Fantasy for which he has been perennial runner-up. (I know the rules of the World Science Fiction Society/Convention have been altered to exclude non-living authors—though Tolkien received the first immediately after he died—but a special exception could be voted.)

Next meeting at Fuller will be an open discussion of *The Screwtape Letters* on Wednesday, February 21, 7:30 P.M., Room 110B. No Watchful Dragons await...

Page 3

FUTURE SOCIETIES: LIBERTARIAN [Continued from page one, column two]

cannot have several practitioners of it in your society.

A perfectly reasonable example would be to have an elite, Dorsai-like group of mercenaries coexisting on a planet (a "free port" perhaps with the other planets state-controlled) with pacifist businessmen, clannish communal farmers, and guildish scientists and engineers. Throw in a libertine entertainment district. some wandering freaks both religious and secular, and a few refugee revolutionaries from the other systems and presto! You've got more interactions. character growth, contrasts and "conflict" than you could possibly use, not to mention ample ideas for humour by juxtaposition.

In one sense, every individual in a libertarian society is an autonomous unit. To know one is to know almost nothing about the rest. In another sense, there cannot be more than one libertarian Society in the sense of distinctly separate units with defined borders or boundaries. Anyone can go anywhere he, she, or it can afford or get invited. Then again, one group may decide to withdraw from the rest and isolate themselves anyway.

NO POLITICS, NO WARS, NO TAXES,

For a writer, conflict is especially important. Alas, a libertarian society is particularly lacking in it. No unemployment since one needs a minimum wage law to keep people unemployed. No wars because you need governments to wage them. No elections or coups because there are no government leaders. No oppression because there are no police. No serious crime 9 because property is protected efficiently as with any other business. No taxes because there is no government to collect or demand them.

Of course there are still challenges to living, overcoming natural obstacles, making money, innovating, personal tragedies and fights, eternal triangles and romances, errors and corrections, inventions and crackpottery. But if you want large scale social ills, you'll have to add a State or two.

There are problems you will have to deal with having a libertarian society bordering a statist one, such as why the State's subjects put up with it when they see the example of a working anarchy next door. But one can be imaginative about such things.

WHAT LIBERTARIAN SOCIETIES ARE NOT

A libertarian society must have come from somewhere. Conceivably, it might have arisen on some alien planet never having known the State and discovering the non-aggression principle early. One can have some obvious drama when this innocent society runs into their first statists-such as Terrans!

But if it arose from our present society, then the people must have developed libertarian behavior modes. Note I did not say libertarian theories. In order for a libertarian society to have developed, the libertarians in thought must have become libertarians in deed. This has nothing to do with signing up, voting, or declarations.

A society becomes libertarian when the populace refuses, en masse, to obey the State, to submit under threat, to pay taxes, to use State currency, or to accept handouts and subsidies. This self-sufficiency will be maintained as long as the society is, and this will be reflected in all customs, transactions, traditions and even the romances of the libertarians.

Thus behavior patterns at variance with an individual self-governance-of children, of parents, even of the "handicapped"-will be tolerated and could be found-but they would be clearly noted as aberrations. ALIEN LIBERTARIAN SOCIETIES

The construction of libertarian alien societies has been about as common (or uncommon) as those of Terran human ones. Asimov had an anarchist society in The Gods Themselves (though I surprised him in an elevator by pointing it out to him); Anderson in Winter of the World (although the aliens were ex-human mutants). Many others mention alien societies in passing but "forget" to give them a government or politics.

Libertarianism is based on individual intelligence (free will) and its interaction with matter (property). Hence any beings with the smarts and material possessions can have a libertarian society. Whether or not they will be more or less likely to than humans are is the subject for a nice long letter or mailing comment debate. For starters, Anderson thought that mutants were more capable than humans to "handle anarchy" (op. cit.).

Since Ursula LeGuin has both functioning human anarchies and alien societies in her Ekumen, it will be interesting to see what she does with the interactions. Other well-known authors currently of libertarian leanings whose future works should be observed for anarchies are Heinlein, Van Vogt, Bester, Wilson (both), Moorcock and maybe even Richard E. Geis.

Pros you would not expect an anarchy from (except inadvertently) are Niven and Pournelle, Asimov, Herbert, and Reynolds. I don't know what to expect of R.A. Lafferty.

CONCLUDING DETAILS

There are a lot of technical questions one might want to follow up if building a libertarian society in close detail. There is simply no room to delve into all the possibilities. For example, how would a libertarian society fight a state that appeared suddenly? What kind of heavy philosophical debates would members of the libertarian society get hung up on? How could garbage be collected and murder mysteries solved? The answers to all these is that it depends on the context you have developed.

For those of you wanting expert consulting on libertarian technicalities, contact me at NLE. This article was written simply to prevent the most obvious errors and inadvertent smears (all smears of libertarianism will henceforth be assumed advertent!). You may now start writing; class dismissed.

THE HORROR OF THAT MOMENT I SHALL NEVER, NEVER FORGET. VOLCA #2. Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (213) 654-4998. Work: (213) 688-4193. For APATITE #1, APA L #715, SCAPA FLOW #2, and MINNEAPA #115. Also to people whose letters are published, people whose zines are reviewed here who don't get any of the listed apas, and people I feel like sending it to. Persons attempting to find a motive in this narrative will be prosecuted; persons attempting to find a moral in it will be banished; persons attempting to find a plot in it will be shot.

Sat. 11/25: To Lee and Barry Golds', for a moving party.

Dinner break brought the usual ideological split. Tom Locke, bless his soul, vetoed Shaky's Pizza. We ended up at a Japanese restaurant called Mikasa, which has joined my list of worthwhile LA-area restaurants. I had pyoza, which the menu identified as Japanese won ton. They're more like ravioli, and taste like xxxxx neither.

Sun. 11/26: More moving party -- the last session.

Near home, stopped at a small Italian eatery for a sausage and pepper hero. Noticed that their supplies included a bag of yerba mate.

Yerba mate is a caffeine-containing hot beverage. It is not common in Italy. It is common in Argentina. Many Argentines are of Italian descent, and those who come to LA seem to retain a lot of Italian heritage and strong identification as Italians. Hence, this Italian eatery with an Argentine beverage (not listed on the menu, possibly for the family only.) Also two Italian maker markets which sell empanadas, and at least two Argentine pizza parlors. [Not added leter -- all notes in brackets are added XXXX after the first draft, except in letters where they're editorial comments: That place is definitely Argentine-run. They now have a map showing Argentina's borders, with the Malvina Islands included. In case you've never heard of that part of Argentina, you may have heard of them as the British territory of the Falkland Islands. There are a lot of interesting cultural mixtures in LA, like Chinese-Cuban and Chinese-Peruvian restaurants, XXX conbinations of Armenian and just about every other type of food, Chinese places which serve teriyaki. And one political leader in the Chicano community is an Armenian born in Syria -- though raised in Mexico.]

Thurs. 11/30: MAIL: 1979 catalog from The Left Hand (140 W. 22nd

St., NY NY 10011. \$1 if you're not on their mailing list, refunded on first purchase.) Fairly good selection fof lefthanded items. Stant Common Fri F.I

Paid off a debt I hadn't expected to dispose of till at least February. he inst and

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Data bar tom (coq.16

Sat. 12/2: The local library holds a booksale every Saturday. From the two-for-a-quarter table, I got both volumes of Robert Graves's THE GREEK MYTHS. It is, unintentionally, a study in the mind of a fanatic.

st to v

Each myth is told fairly straightforwardly, with references to whitten sources. Then comes the explanation, with everthing fitted into Graves's theories about the matriarchal society of pre--delassical Greece and its goddess-dominated religion. Every myth is 1)deliberate distortion of the matriarchal myths by patriarchal invaders, 20 an account of the patriarchal takeover, 3) a story intail vented to explain a picture whose obvious relationship to the worship of the Triple Goddess was no longer understodd, 4) a disguised is account of an ancient matriarchal rite, or 5) all of the above.

MAIL: DAGON 190+195. John Boardman, 234 East 19th St., Brooklyn, TRZ NY 11226. APA Q zine, available to interested outsiders for

the asking. Rather good book reviews -- better than most I've seen in good genkines recently. Informative, wellwritten and contentious mailing comments. fStreak Gordon -- (office serial originally based on Flesh & Flash, but now containing over references to STAR WARS, They Three Stooges; D&D, Oz, et cetera.

TIME MACHINE 16, John Boardman. Review of 2001, intended to appear in GOLANA soon after the movie came out.

THE SPACE RABBI TURNS SHAMUS (Mark(?) Blackman. Done for APA 0, signy by Boardmany Stefnal Jewish Humor, not to my taste? reprinted

Montol2/4: Called Planned Parenthood to make an appointment for a wasectomy the Saturday Before Christmas. They now give them on FridaysistI scheduled it for the 29th. Ment to United Parcel after work. Shipped off the MINNEAPA to copies of previous issue of attic zine, plus a couple of ditto

masters. Decided to stop at the ARunee (my favorite Thai restaurant) on my way home [1] I tried something new -- '''' pig's offal with chili garlic. The meat was, it'm fairly sure, Hog maws. (The waitress was very careful to make sure I knew what I was in for, but her English had

may have here if the state built for a for the section of (.and interesting cultura) on the section of interesting cultural ones in LA, a said in LA, a said to be the book for the section of the vidences of the book for the section of the section

steady diet. Hog maws have overtones of old sweatsbock, and arenidnoo definitely an acquired taster a sympt was fold, and arenidnoo is the second of the second of the second of the second of MAIL: SCAPA FLOW #1. (Alternate-monthly apa. To join, write:

Beverly Kanter, 6933 N. Rosemead #31, San Gabriel, CA 91775. If you'll need copies mailed, send money and say what class of unit mailer) More mailing comments than I'd expected: One LASFAPAn commenting to another who'd dropped out of LASFAPA of his final LAS-

FAPAzine, comments on WOOF, an instant mailing comment on a zine

Paid of a debt frank explored a for citil at ast

The instant comment was on vasectomy. And I'd barely de-idecided not to run through the previous issue of this zine -- which also discussed vasectomy. I the previous issue of this zine -- which the discussed vasectomy. I the previous issue of this zine -- which the previous issue of this zine -- which the previous issue of the previous issue of this zine -- which the previous issue of the previous issue of this zine -- which the previous issue of the previous issue of this zine -- which the previous issue of th

Letter from Planned Parenthood, giving time and date of the appointment and instructions on preparation. Plus a map.

, Called RTD information, and my some miracle got them on the first try. There would be a 2000 three block walk between buses getting there from home. That didn't bother me. But from what I understood, the walk between buses afterwards, going home, would. I therefore called Yellow Cab and asked aboutk their rates. [As it turned out, taking a bus home would've been a VERY bad idea. Particularly if I'd had to stand, or push through to a seat. But before anyone points out that I wouldn't have these problems if I owned a car -- I wasn't in any shape to drive, either. They're rather emphatic about not driving yourself afterwards, and from my experience that's more than justified.]

Thurs. 12/7: Call from Planned Parenthood. They wouldn't be operating on the 29th. Could I do it on the 22nd instead? I thought it over, then called back and agreed.

Fri. 12/8 APA L 708

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GEORGE JUMPER: "Why a vasectomy?" I don't want to spend twenty or more years raising children. I'm over 99% sure I won't change my mind. Which makes a permanent method of birth control practical, if it compares favorably with less permanent methods.

SUSY SCHULMAN: "I am begining to suspect you may possibly be a triffle cookoo." Well,: maybe.//Yes, that poll question was for real.

RITA WINSTON: I don't consider myself to have much political wisdom.

I do have some ability at extrapolation, and as telling the difference between extrapolation and wishful thinking. As for what the American people want -- both collectively and individually, a lot of contradictory things.

1 in mir T

TOM DIGBY: On the races and issues I was most interested in, I voted with the majority about a third of the time. I voted as I preferred things to come out, given the limitations of choice. (Like neither Victoria Woodhull nor John Lilburnes being among those running for Lieutenant Governor.)

ANDREA ANTONOFF: "I would be much more interested in hearing what you think about as you wend your way through life..." I don't think you're much interested in, for example: the political future of Hodgeman County Kansas, TV reception in Estonia, the brithrate in Daghistan, public transportation in Northern England.

RICHARD CARSON: Planned Parenthood charges for vasectomies on a

sliding scale, based on two factors: income of husband : and wife (assumption is that clients are husbands of two-income couples) and number of people in the houshold. There is also a \$10 donation for a counseling session, required before you're accepted -- the donation is tax-deductible, for what that's worth.//Point is, to many of those answering, not only was that a fair question but the answer which seems ridiculous to us was the "right" one. A majority of the older people polled saw hard work and doing what is expected of you as facets of the same thing. And they chose that OLAD over personal satisfaction and pleasure.

The other of the states of the

Sun. 12/10: Shaved my scrotum, as a dry run for shaving it for the vasectomy. Uncomfortable enought that I don't think I'm

Love, oh love, oh hairless love.

_____ likely to take up shaving my pubic hair as a regular thing. [] have since learned that there's a rather specialized local barber who would do the job for \$20, though apparently she usually trims pubic hair into nice patterns.]

THURSDAY MOIL

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to druge. sither Mon. 12/11: MAIL: Christmas card from the Hertzes.

Tues. 12/12: MAIL: Heffers classical music catalog. Thurs, 12/7 Wed. 12/13: MAIL: Heffers classical music catalog.

Thurs. 12/14: APA L 709

NEETERS: It didn't seem strangely written to me. Maybe it reflects a change in my thinking, more apparent to someone else than to me.//Nena O'Neil's book is THE MARRIAGE PREMISE. Her position is that fidelity combined with a marriage open in all other areas is best. What's usually called "open marriage" is sort of okay, for those who can't hack a firstrate marriage. Since she's co-author of OPEN MARRIAGE, the opinions she expressed later are relevant to anyone citing OPEN MARRIAGE as authority. George O'Neill's views may be different. I've read somewhere that they're now divorced.// I'm aware that having a vasectomy would rule out a longterm relationship with a woman who strongly wanted children. That's part of the idea. I think a child should have two parents who REALLY want children. Not one who wants, and one who goes along with having the the child in order to maintain the relationship.

Sat. 12/16: At the library sale, found BOSWELL'S LONDON JOURNAL on the two-for-a-quarter table. Two things struck me, reading it. First, fashionable London of that time was a very small town. It had the feel, as seen through Boswell's eyes, of a place no larger than Ellenville NY (which has about 2,000 people.) Second, Boswell's sexual escapades seemed to have more to do with vanity than with lust. THE ATT ATT ATT IN d. tore ist reached in bearing what

Sun. 12/17: Call from Nate Bucklin. He'd be moving at year's end. Ministry Address: 1800 14th Avenue South, Apt. 2, Minneapolis, MN 355404. Telephone (612) 871-8610 55404. Telephone: (612) 871-8619. hephist relia

Call from my landlord. Happy Hanukah, and the rent goes up in February.

Amused myself by planning out the main city of an extra-solar colony-world. Streets would be named after elements, avenues after vice-presidents who didn't become President. Avenues would run from Burr to Mondale, streets from Hidrigeno to Torio. the answer of the showed the second state of t question

Mon. 12/18: MAIL: MINNEAPA 111 NW 201

CAROL KENNEDY To consider LASFAPA special requires two con-

ditions. One is to find something valuable in it, obviously. The other may not be so obvious -- to have not found that anywhere else. Those who lack the first condition may reasonably be considered unfortunate -- though by the same token, you might be considered

unfortunate for not appreciating LASFS business meetings. Those who lack the second can't really be considered unfortunate, though they might be considered jaded. Anyone who's been around fandom for five or ten years, and specifically, anyone who's been around LASFS, is likely to have encountered a couple of groups with the same feeling (well, not exactly the same, but similar) as LASFAPA currently has.//"Your anecdote about TOM [Digby] mentioning he'd be out of town, and Channel telling you later that he was going to Greece, sounds just like TOM." Also just like Channel. "Channel didn't know until we # mentioned it that TOM had been invited to be Fan GoH at Minicon, though he had told Channel he would be going to Minicon." Digby dropped some hints on my toes, and I figured out that either he was to be a Guest of Honor on Minneapolis, would be putting on a for-real Worldcon bid. Nate Bucklin confirmed the former. Digby then DNQed me on it. When you mentioned it in MINNEAPA, I figured it was open knowledge and told a few people here. When the official Minicon thingie arrived at LASFS, and I saw that it was now official, I = announced it at LASFS.

FRED LERNER: Economics usually assumes that people, firms and

institutions are omniescent but not * omnipotent (Hi, Marty Helgeson) -- that is, they have all ? information needed to make decisins. One part of the economics of information and knowledge (the part that interests me) looks into what is usually taken for granted, here. Another part deals with the economics of technological research.

Thurs. 12/21: Last day at work before the vasectomy and my vacation.

MAIL: SATELLITE COMMUNICATIONS. They've corrected my address, which shows their efficienty. They're still sending me free copies,

which implies something wrong with their operation. [It later occurred to me that the cost of weeding out the freebie list might be higher than that of sending the copies.]

Shaved my scrotum again. This time, it was a bit of a

Ain't misbehavin', I'm just ashavin' myself for you

relief. The regrowth from the trial shave felt itchy. However, I would advise anyone else shaving an equivalent area NOT to use menthol shaving cream.

Fri. 12/22: Phonecall about 8 am. Was I the Dan Goodman associated with the Dodgers?

I started out for Planned Parenthood's East LA clinic (near the County Hospital) earlier than I needed to. Stopped off at Olivery Street for a bit, and listened to a man play Mexican music on a washboard. (Supplemented by drums and a cassette recorder.)

Planned Parenhood does some interesting recycling. The stuff put on my skin to deaden sensation was in a bottle marked "Lady Clairol." And the specimen. bottle I was given for later use is a pill bottle for Materna 1.60 prenatal tablets.

The doctor asked the routine questions to make sure I wanted this operation. My answerss didn't fit the usual

5

pigeonholes. He paused to read the counselor's report.

tern.d

The operation was easier than I'd thought. It seemed the doctor was taking an inordinate time over the injection -- and add then I realized he was about to stitch up the left side. Other hand, that's the point at which I had a momentary impulse to not go through with it.

Trours In some ways, waiting for the cab was the hardest part. It didn't arrive within the promised twenty minutes, and another call had to be made. The first of the second of the second second

torner sport a stable Besides the specimen bottle, brought home two instuction sheets. One on how to go about bringing in the first specimen, and when (March 13th.) Other on how to deal with discomfort, what common side-effects not to worry about, how to get in touch if I needed to.

Sat. 12/23: Called Lee Gold. Found out a mutual acquaintance of ours had had a vasectomy, and it hadn't taken -- the tubes had

regrown. He hadn't gone back for another. - - w ti "5d TTTTT.

I had to think, then, about whether I would have it done again if needful. I think so. Once more.

Called the party at Lee Pelton's and Carol Kennedy's, in Minneapolis. Most of the people I talked with I knew from MINNEAPA, a few also in person. But I x also talked with John PUrcell. techo

One person mentioned that he'd previously kept confusing me with Greg Chalfin and Hoylman. Now that he'd met Hoylman, he only got me and Chalfin confused. For example, he couldn't recall which of us lived on the East and which on the West Coast.

Tues. 12/26: First day I felt like going anywhere. Went to Dream Masters art gallery. be hi, ber "ben it od

In my opinion, the artwork was the middle range of a con artshow. The low range of sf and fantasy art was screened out. The high range was also weak, except for some Cathy Hill paintings and a few Freas prints from years back. Gail -Selinger later. nont

Note: There was also recent Freas work, but I think Freas has become his own Lin Carter. And Rick Sternbach, but I don't care that much for Sternbach's work.

The gallery could use a proofreader. One painting, according to the label, showed "Thomas of Rhymer." It should, most emth: phatically, have been "Thomas Rhymer" -- Rhymer is an occupational name, not a place name.

Thurs. 12/28: Decided that while I could make it to LASFS, I most likely shouldn't -- mostly because I was still tiring fairly tug easily. Asked Digby to deliver some stuff at LASFS. Clair

日日主王王

When I explained that I didn't feel like going because of getting the vasectomy the previous Friday, the speculated on having i lante 18 op to My swerze to get a vasectomy EVERY Friday. Or else everyone you'd slept with since the previous one would get pregnant.

He then went on to discuss teleportation as a form of birth control. However, among other complications, this might lead to a woman being pregnant without knowing who either the father or the mother was.

Sat. 12/30: I'd been thinking about starting a new apa. Today, I locked to do it. After thinking over several names, I picked APATITE but of the Oxford English Dictionary.

Wrote out a set of rules. Rules based partly on APA L and other non-membership sf-fandom apas, partly on ALARUMS AND EXCURSIONS, and mostly on things I'd seen go wrong in various apas.

From the first four people I called, I got five yesses.

Basic information: no formal membership. Contributions should be the equivalent of two typed singlespaced pages. Monthly, first mailing deadline 2/17/79. Copy count first two mailings: 20.

MAIL: From Heffers, NEW WRITINGS IN SF 25, edited by Kenneth Bulmerx (Corgi paperback.) The series was started by Ted Carnell, who was editor of NEW WORLDS before Michael Moorkcock. Definitely recommended to anyone who shares my opinion that NEW WORLDS was a good przine before Moorcock mucked it up by getting artsy. No outstanding stories, but most are enjoyable.

ACC MUN THE LAND BUILD

Heard, on KUSC, the first operax I've really enjoyed listening to. Why Die Fledermaus? No idea.

Mon. 1/1/79: Call from scmeone who'd agreed to contribute to APA-TITE. He wanted to know what would happen if a particular problem came up. I quoted one of the reasons I'd set down for excluding zines, which neatly fitted that particular case.

Tues. 1/2: Got the likely use of a large stapler. Probably

wouldn't be really needed for the first mailing of APATITE, but it might be needed later. And my own stapler was a small one, of very limited usefulness.

Called another LA-area prospect. He said absolutely not. He was in enough apas already. I pointed out that overruns from other apas were welcome, and beginning copy count x would be only 20. He said he'd see how two other apas he was in went. If one was dead and the other not worth his while, he xx might be interested.

Called Marty Cantor, and asked about franking a flyer through LASFAPA. After explaining that he d decided to stop running thru such flyers, he told me that 95 copies would cover the membership and waitlist. If the copies to the waitlist added to cost of mailing out the official organ, I'd need to pay that extra postage. Since a recruiting thingie for AZAPA was also going out, I'd probably have to pay the extra postage.

444

Thurs. 1/4: LA TIMES had a recipe for salmon cooked in a disherudwasher. The sector of the salmon cooked in a dish-

7

To LASFS, after not attending for a couple of weeks. Two people commented on the vasectomy, both very much in character.

Marji Ellers asked how I was feeling, and congratulated me on having made the decision.

Bill Warren: "Well, Dan, now you'll sit by the fire a lot and drink beer, and you won't go around knocking over garbage cans, now that you've been fixed."

Got several more people for APATITE. Including myself, I now had eleven -- if everyone came through.

The main entertainment of the evening: conclusion of the Favorite Writer Contest. Votes had been collected for a while, at a penny a vote. Now was the final chance to contribute, and people did. They tried to push their favorite writers up the list, or other writers ahead of their unfavorites.

Or they simply tried to have votes come out to a nice number. Someone pushed an author's votes up to 1040. Charles & Curley added a me penny. I happily informed him that there was also a tax form number 1041.

Took out from the LASFS library NINE PRINCES IN AMBER. I'd forgotten how enjoyable the first part was, before Corwin got to Amber. Even for a i bit after that, till he finished walking the Pattern in Rebma. Amber and its ruling family are dull, dull, dull.

Fri. 1/5: GALAXY had the <u>s</u> beginning of a new Fred Pohl novel, JEM. The first half of the first sentence stank.

Sat. 1/6: Found out my parents might be in California in September.

MAIL: SKUG #3, Gary Mattingly, 864 B Haight, San Francisco, CA

94117. Personalzine, irregular. No mention of payment, move monetary or otherwise. Mattingly discusses his move from Detroit, movies, music, and various occult groups he's checked out to see if they're worth his while. Letters of comment on two previous issues (not available.) As with any personalzine, worth getting if you find the editor 's personality interesting and/or comfortable. I can't predict who would or wouldn't, with this one. Mattingly writes well, and there's a good Schirmeister cover, so it's worth taking a chance.

FANTASY AMATUER Vol. 42 #1, 11/11/78. FAPA official organ. FAPA is SF fandom's oldest apa, and when I joined fandom around '63 or 64, the most prestigious. Then, the waitlist was about 60. Now, it's 15. If the percentage of fans wanting to get into FAPA had stayed constant, at a conservative estimate the waitlist would now be 240.

FAPA has four officers. The two best equipped to answer questions on joining are Andruschak (6933 N. Rosemead #31 **, San Gabriel, CA 91775), and Jack ^ Speer (2416 Cutler NE, Albuquerque, MN 87107.)

SOUTH OF THE MOON #14. Guide to sf fandom (and related fandoms) apas. Lester Boutillier, 2726 Castxiclione St, New Orleans, LA 70119. 50¢, current apa information, accepted art, trade. Information here is several months to over two years old, but this is still the best source. (This copy loaned by Andruschak.)

Mon. 1/8: First day back at work. I got a plant. People who've been sick get: plants, and I'd had an operation. So I got in a plant I didn't want.

MAIL: ACLU renewal notice.

Wed. 1/10: License plate seen: KNULLA. As in "Svenska flcka knulla bra." The Department of Motor Vehicles supposedly screens out such things. Maybe they just didn'- have anyone who knew Swedish. But then, they also let through RRGASM.

MAIL: Telephone credit card.

Thurs. 1/11: Changed x work hours again, as of Monday. If I stick with it, I'll be working 7-3 30.

MAIL: Letter from Natalie Andre. Enclosed was a XXX message from Amy Andre. Amy's letter was short and to the point. Not very subtle, but that can't be expected of a four-year-old.

At LASFS, Fred Patten gave me a Japanese comic with translated dialog to evaluate.

Handed at LASFS: HOLIER THAN THOU #1. Marty Cantor, 5263 Riverton

Avenue, Apt. 1, North Hollywood, CA 91601. 75¢, contributions, trade, letter of comment. Quarterly. Most interesting part is the last, where Cantor talks about a daydream in the form of an sf series. worth getting for that, plus Mike Glyer's account of standing in line to see LORD OF THE RINGS. Other material wellwritten but not well enough to arouse interest unless you're interested in the subjects already:

Sat. 1/13: Called Nate Bucklin. Found out he'd be in LA on the 28th, and would stay with me part of the time.

Found myself deciding to spend part of July in the Twin Cities. I would have the leave and the money then, if I didn't use them on the other things first.

Of course, it would mean missing Westercon. However, this year Westercon would be run in by Bay Area people. And that alwaxy, ways, in my experience, means some interesting hassles. I hadn't planned on attending.

Called airlines to find out about fares. Northwest Orient first, since I knew they went to the Twin Cities. Then I looked in the Minneapolis Yellow Pages, for airlines advertised there. Then I XXX looked up numbers in the LA Yellow Pages -- eliminating those with 800 numbers for Minneapolis.

Turned out that Northwest Orient and Window Western had about the same fares. TWA's lowest fare was higher, because they didn't flym there themselves -- there was a connection at Chicago with another airline. MAIL: SN Jeni Burr, USCGS Morgenthau (WHEC 722), FPO San , 1201 ⁹⁰³ Francisco, CA 96601.

11 . 6 11 Thank for the to letter and zine. Us lonely sailors can use all the correspondence we can get.

Once again I'm underway for Alaska. We have a new port stop this time -- Ketchikan. [Which, from the postmark, is . where this letter was mailed.] Supposed to be very pretty. Juneau is also on this trip -- one of my favorites. Also Kodiak. I'll probably be on the boat for another 2-3 months. Weep wail, poor me -- no Eric.

od. Speaking of my favorite subject -- Eric will be in school in New York for another three weeks. From there he'll go to his new tran duty station (looks like Washington or Louisiana) and hopefully I'll follow him there.

The work is a lot easier for me this trip. I'm striking Yeoman rather than being on Deck Work -- basically office work as compared to hard labor. [As applied to naval affairs, the OED defines "yeoman" as "In the British and U. S. navies, an inferior officer who has charge of the stores in a particular department: with of or possessive, as yeoman of the powder-room((andthere's a word whose meaning has changed considerably)), of the sheets (now abolished), y. of the signals, of the store-room, boatswain's y., engineer's y., paymaster's y., ship's y." It's certainly undergone less change in meaning than, for example, "cavalry.]

I'm still fanning in spite of it all. All I read is SF. And I still spend a lot of spare time in bookstores. Speaking of which, I recently picked up an old Gahan Wilson cartoon book whose existence I wasn't even aware of, I ONLY PAINT WHAT I SEE. If you see it, buy it. It has some of his best. ("It's only a tree, junior!")

Anyway, life goes on (and on and on -- does it never end? Eek!)[I hope not. Every year recently has seen an improvement in my life, since around '74 -- though '77 was in some ways the hardest decade of my life. There may be a decline in another I WOUL thirty years, if I'm not careful, though. Or if I'm too careful. other But now that I've stopped pretending I'm an adult, I'm enjoying adolescence a lot more than when I was legally a nonadult.] V Preim and END LETTER year West and a set of run x by

Minicon flyer, a day later than LASFS got its copy. (or MAXXX WITH maybe several days later.)

hailad Heffers catalog of books on Africa south of the Sahara. For only 24.75 pounds per volume, you can get the 12-volume reprint of ATLANTIS: VOLKSMARCHEN UND VOLKSDICHTUNG M AFRIKAS. At lesser prices: THE ROMANIZATION OF AFRICA PROCONSULARIS, PENIS SHEATHS AND THEIR DISTRIBUTION IN AFRICA, and a wide

assortment of other works on varied subjects. the second store for the term we had could be it in the there there there allow the terms it is not state



PIZZAS OF ENHAT * PIZZAS OF ENHAT is intended to Alan Winston's first FAPAsine. PIZZAS OF ENCHT

> Alan Prince Winston 14140 Delano, #14 Van Muys, CA, 91401 (213) PUN-5500/c134 commenced 1-23-79

"It is probably inauspicious to completely elide a word in the very masthead of my first contribution, but so I did. The sentence fragment should read "is intended to be Alan Winston's" and so on. I now realize that changing the "to" to an "as" would also solve the problem.

I seem to have started off by explaining my masthead in detail. I mightas well continue. The title, weak as it is, is supposed to be a pune Apazines are rather like pizza, in that the writers sometimes get cheesed off at saucy comments, and in that their production can take up some dough.

Passing quickly over my name, we arrive with breath-taking speed at my address. This is a two-bedroom apartment, shared with a fanfriend, Charles Lee Jackson IL. This apartment was acquired three weeks age, an event which I had begun to think would never occur. San Fernan: o Valley landlords have a thing about renting to impecunious nineteen-year-olds, and I had been trying to find a place that would accept me for over three months, ever since the elder namber of the three bedroom I was in fell in love and moved in with his lady friend (and with her two children, and with a girl friend of hers).

Over that three months just past, I have been bouncing at a great rate emong family and frien s, with the natural unsettling effect that being unsettled has. This has something to do with my not having contributed to FAPA earlier.

My telephone number is usually referenced as STOnehenge 5500 (Give me a ring sometime...), but there wasn't room for the lower case letters, and making the distinction between 0 (in the prefix) and 0 (in the suffix) by slashing the 0 or the 0 would have been inconsistent with the o's elsewhere in the matheado

"cill" is meant to indicate that this is somewhere around my one hundred and thirty-fourth publication, but that I don't know for sure. Properly, the small c would have a period immediately after it to mark it as an abbreviation for "circa", but there wasn't room. This typewriter (an old manual portable Royal) doesn't have a wavy equals sign for "approximately equal to" or I should certainly use that.

The reason that this writing was commenced until the twenty-third of January is that I earlier had no (to me) sufficiently confortable setup for typing. (Insert a "not" between "was" and "commenced" in the sentence immediately proceeding as an aid to communication. Thank you.) Although I will admit that this apartment has had both a desk and a chair for over a week, I have been in no condition to write during that week.

I'see, I went on Planned Student Leave from California State University at Northridge at the end of September, coincident with the time that the apartment I mention above broke up. I was enrolled in six courses. The authority figure at the Student Information Conter told me that all I had to dom was fill out a PSL application, and would thus fulfill my obligations to the gods of paperwork.

I found out on the 14th of this month that this information was erroneous. I rectived, that Saturday, a grade report indicating that I had failed all six classes, and that I would not be permitted to register in the new semester. Monday found me on the Northridge campus, trying to find out what was going on. Truth was revealed to mes I should have circulated a change of program form back when I went on leave. The only solution was to circulate said form now. It required the signature of every department head, every instructor, and the chairman of my major department.

To collect those thirteen signatures took six days of running around the campus in rain and mud and finally in fever. By Friday I had developed a case of flu that put me in bed that night and all of Sunday.

The job is finally one, and I can register. Huzsahl

That is why I haven't started this thing earlier.

INTROJUCTION, THOUGH NOT FOREMORD

My name is Alan Prince Winston. I was born in the early morning of November 4, 1959. I looked like Winston Churchill. All babies look like Winston Churchill.

I have always lived in Southern California, which probably has had a great effect upon my attitudes and upon what could loosely be termed my morals.

I have been reading voraciously (but not quite omnivorously) since about age six. I read a lot of mysteries, a lot of af and fantasy, a lot of film history and criticism, and a fair amount of miscellaneous stuff.

I an five feet and eleven inches tall when I stand up very straight (this happens rarely) and weigh two hundred and twenty-five flabby disgusting pounds. (Actually, I am not remarkably unhappy with my weight, and am not disgusted by my body. I would like to w igh less, but being fat isn't causing me great loads of psychic trauma. Not anymore, anyway.)

By hair is dark brown and very curly, with a tendency to kink into the "Jawish Afrom that so displeases my eye. Hy beard is not so curly, and has lately surprised me a lot by producing some white hairs. (I'm nineteen, remember.)

I wear glasses, which I have an appointment to have changed later today. (The changing will be of the glasses, rather than af the state of wearing the glasses.) That is, I will be wearing different glasses. I hope I make myself clear.)

I am a stumient at the California State University at Northridge, majoring in Information Systems. This is a suboption of the Accounting major, which is an option of the Dusiness Administration (as distinct from Business Education) major. Information Systems is Computer Science with accounting substituted for the physics and higher math. I have always had something very much like a math block, and the Information Systems major is made to order for ma. I like computers. I've liked computers since high school, when I had access to the Los Angeles Unified School District's IEH 360 under the MISS (Math Instruction Support System) System. That last has always reminded me of the Le Brea Tar Pits (the the Tar Tar Pits) and of the Department of Rechndancy Department. Anyway, the existence of the InfSys major at Northridge is the reason that I'm going there instead of, say, to UCLA, or some other, more prestigious school. This is not to imply that CSUN is no good. On the contrary, its Business department is ranked as being one of the top ten in the country.

I have been aware of fandom since 1972, when I attended LAcono I was the quintessential neo, as seems natural enough for a twelve-year-old, and spent all my time in the film roomo

I went to various LA conventions after that, including the WithGraft and Sorcery cons and a couple of Equicons, but did not make any real constituent to fandom until the summer of 1976, just after Westercon. I heard again about LASFS, and, since I was now well-scheeled I attended a meeting. Then I was hooked. I got into APA-L, and published almost-weekly for over a year. This sparked participation in other apas, especially LASFAFA, and also brought some notice within the clubo

In 1977 I served as film programmer for LOSCON IV, providing nine feature films on a budget of zero dollars. (In fact, the film program even turned a profit of about fifteen dollars.)

The next year found me that enough to do it again for LOSCON V, although this time the con spent almost a hundred dollars for the thirteen features, including projector rental.

Keeping on with LOSCONs, which, now that I remember to mention it, are the proprietary convention of the LASES, held annually, probably in November, I find myself chairman of LOSCON VI, to be held on the second weekend in November of this year. Our guest of Honor is supposed to be A. E. van Vogt, and our hotel is the Airport Park in Inglewood.

The apas on whose rolls I cufrently an are:FAPA, WOOF (Bruce Pola's arnual thing), LASFAPA (to which I have contributed a zine in each and every mailing), AZAPA (the deadline of which I am even now pushing), SFPA (the waitlist of which I must be the top nearing **That that which** and the Shadow apa of which I am an infrequent contributor to), and APA-50 (of which I have just become a member, or will have if I send in dues).

I have also been in CAHADAFA, which was of little interest to me. I didn't mind it being a nest of comics fans (I have %gasp* certain tendencies in that direction myself), and I didn't mind all the amateurish artwork, but the fact that they were all either speaking some kind of secret code or just naturally boring finally made me drop out.

I seem just to have left CAPRA, the Cinema Amateur PBess Association. That had a reasonably high standard of writing, but so small a supply of same as to provide insufficient egoboo return for postage invested. I may find myself back in there eventually.

I have, at their requests, contributed material to two fledgling genzine publishers, Leigh Etaine Victoria Strother-Vien (of AYENONDER and the FAPA waithist) and Marty Cantor (Little Tin God of LASFAPA and publisher of HOLIER THAN THOU). I have so far received only one written response on the material from a non-fened, and that, while negative, was so vaguely phrased as to make it impossible for me to determine in what manner I had sinned.

There we are. All up to date on my academic and fannish careers, what funo

Now how do I fill up five and a half more pages?

THE NAMING OF HAMES

Most of my names have been externally applied, and the internally recognized. I shall list here those namesI have been called and like, with a note on who has called me that and upon who is allowed to call me that. The names follow, in the order in which I think of them.

Alan Prince Winston

Conferred by my parents upon the occasion of my birth. My mother thought that my name would be impossible to misspell, managing to forget about Allan, Allen, and Allync

APN

Just grew. I first became conscious of it as a name around age thirteen, and it had existed for some years at the time.

Loung Winston

Granted by a file buff chun in junior high school, I do not generally answer to it. Wol

I did this myself, then it occurred to me that I could use an animal totem. The most acceptable to me and acceptable to others animal type (those last were really two separate criteria) seemed to be the oul. Only were, however, taken. Bobbi Armbruster is and has been The Oul since beyond the memory of this mortal man. Solutions the oul in the Pooh Fooks, who was named Oul, couldn't spell, and signed his claurescrauled notes Wol. I have certain affinities of character with said Owl, and I was at the time playing the sute-furry-animal bit for all it was worth. Therefore, the name, which remains my primary nickname.

The Wis

This was granted by the inhabitants of the recreation room (read "pinball arcade") one night after I had uon thirty-eight consecutive free games on the CAPTAIN FANTASTIC machine therein. (This was a combination of luck, skill, and the fast that if I hadn't been playing pinball I would have been studying for finals.) The CAPTAIN FANTASTIC machine portrays Elton John's Pinball Wizard character from the film TOPEN. After the twenty-seventh consecutive free game, there was some jostling in the ranks, and then three of them commenced to sing "He's the wizard, he lives in Oz" from the play THE NIZ. After that, I was Wiz or The Wiz around the dorm. I still answer to it, and like it, relishing its incongruity with my usual character. (I may be a bit like O. Z. P. I. H. H. E. A. D., but I resemble in no wise The Wizard of Oz.)

Prince Alan

This was first applied to me by Elena Pirov (pseudo) in LASFAPA, along with a declaration of royalty. Since then, various people have independent willy thought of it, mostly female types. I don't mind it at all, and, indeed, rather like it. Nonetheless, this name doesn't strike any deep resonating chord within me, and produces no shock of recognition. Pity.

Produced by Susan Leigh Fox for comments in AFA-L. Only she

APWol Produced by Celia Chapman for comments in LASFArA. As its creator, she is the only one entitled to use it.

Molan

Winniepoch

is entitled to use it. Created half maliciously and half affectionately by a group of my friends (lucky me), noting my resemblances both to Winstom Churchill and to Pooh Bear, and even involving my name. This makiname is not something I usual have chosen for myself, and, indeed, not something I allow to more than a very select few. If I am addressed that way by anyone else, I don't get mado I don't scream and shout. I merely don't answer to it. (I will now get comments from 6k people, all addressed to "Win-

Captain or the Captain

In I have an alter-ego, a costumed hereof the old school. I, or my analogue in the conic universe, need merely speak the name of the old mixard Hoohah, and a bolt of magic lightning will streak from the Meavens to transform plain MILLY MALENA Alan Winston into that defender of truth and freedom, Captain Wol! (The Captain is a seven foot owl in a red suit with a bolt of lightning across the front.) Anyway. I an comptiment called after bits.

niepooh." .. hat's a faned to do?)

A NOTE ON THE PAGE-NULIBERTIN SYSTEM

When I started writing this sine, I was unawave that it would have front and back covers, so I numbered the first page I wrote 1 by implication, and the next 2 by statement in the upper right-hand corner. (Read "uniting" as "writing". The letter "I" is being used in this zine entirely too much, and I was trying to cut downo No lucko)

In any case, if this zine has six pages of text and front and back covers as well (as I am planning), then the cover is to be considered page 0 and the back cover page 7. This should preserve the already typed numbers of the already typed pages, and not cause toox much obfuscation or confusion during collation.

Thank you for your kind attention.

SMOKE GETS IN YOUR NOSE: : : A SHAGGT*CUT STORY

I have just amazed myself by being given a job. ("Being given" is used to draw a distinction between what happened and the concept of "finding a job". One came looking for mao)

Four days age (two days after I convenced this zine) I got a phone coll from Marty Cantor, Marty is the Little Tin God of LASFAPA, and publisher of the fledgling zine HOLLER THAN THOU, He also manages a tobacco shop in Glendals, a drive of a mere half hour from this apartment. He was in need of a part time assistant, as he had just found his last clerk stealing and was forsed to fire himo Would I take it, and could I start the next day?

Just to make sure it was understood, I explained to him that I know nothing about tobacco, nothing about pipes, and nothing about clerking.

He felt I was smart enough to learmo

I am now working twenty-three hours a week at a pipe store, doing various miscellaneous things including blending tobacco, some of which muells quite nice and some of which rather with definitely doesn't. (I'm talking about their aremas as they sit, rather than as they burn.) Latakis smells a bit like mildewed mud, and has about the consistency of compost, Burley smells rather nice.

In any case, I have just finished the manuscript of Marty Cantor's unpublished magnum opus, a book designed to tell people all they need to know about pipes. Forty-seven thousand words on pipes and tobaccon and those words of lower literary quality than the contents of his apazines. This was the fifth draft, and he had gone over the typescript in pencil, changing words and phrases to the end result of making it rather worses

On wello It's amazing what I'll put up with for three dollars an hours There are a couple of nice things about the job. It's varied, and thus not boring. In addition, it's not ditchdigging, or anything else very physically demanding

I can only hope that next year, when my primary source of money runs out, I can get a standable job that will let me complete school withing the immediately foresceable future.

UP. UP AND HEY-HEY-HEY 8: SENOT A REVIEW OF SUPERMAN

I am indeed going to talk about SUPERIAN THE MOVIE, but this is not a review. I wish I knew the origin of the bit about a review being designed to make seeing the thing unnecessary. To fully understand my later mumblings, it will be necessary to see the film, or to have seen the film. Seeing the film is recommended even if you don't read the rest of this zine.

To start with, I liked the film a lot. The climax seemed tremendously well done and exciting, and the whole movie left an afterglow of good fealing that I had not felt since seeing STAR WARS. Only the characterization of Lathor and his benchpeople bothered me while I watchedo

Later, though, I began to think about it. (I believe it's Elake who counsels

APW

against anima analysis of emotions, saying "we murder to dissect." I have found this to be untrue in this case. The thought of the movie still produces the same glow, although the passage of time has naturally somewhat reduced its intensity.)

The interesting thing is that SUPERMAN THE MOVIE has no excuse for being as enjoyable as it is. While the effects are very superior, and all the acting quite acceptable, everything else shows the innate lack of a single aesthetic sensibility guiding the production. The film is a wild melange of styles, and drips loose ends and sillinesses in a manner that the comics never have.

The scene before the credits is a black and white film of what is not an issue of ACTION COMICS, narrated by a shild reading what is not a SUFEMUAN story. We are told how the DAILY PLANET was in 1938, for no reason.

The scenes on Krypton are deadly serious, in a manner appropriate to scenes on Arisia in a filmed production of the Lensman bookso

The cinematically superb Smallville scenes are a mixture of Grant Wood, Andrew yeth, and a bit of Edward Hopper.

The Fortress of Solitude is sheer Irwin Allen, and the prevailing mood is nonexistento

Suddenly, after forty-five minutes or so of literally deadly serious, including the deaths of both our heros father and of his foster father, we're in Hetropolis and doing Super-schtick with Clark Kent and Lois Lang. After the very serious treatment accorded the deaths of Jor-El and Pa Kent, a police detective is killed with a gimmick, and we are invited to laugh at the man who did it.

In fact, although the film commences with the tragic death of millions, and proceeds to the more personal tragedy of the loss of a single loved one while life goes on, its main approach is comedy.

The ingredients mix badlyo

What saves the film? I don't think it's the marvelous coullience of "Superman's First Night", nor yet the genuine excitement of the missile fighting, dam building and Earth healing, although all of those contribute. I think it has more to do with the depth of emotion Cristopher deeve is permitted to display, although the writers made (I think) a bad choice with the method of finalx resolution. I think, too, that it is the writer's fidelity to the root (though not the flower) of Superman's heritage, the contention that truth, is justice, and even the American Way (which I take to mean the traditional virtues of the country, rather than the foibles into which we have somtimes fallen) can and will be preserved.

Still, even after all that, I wish that this magnificant movie were a better filmo

"Don't thank me, Warden. We're on the same teams

TAKE ONE AND PASS IT ON SEARCH FOR PALMA DAYS

When I was running about the halls of CSUN doing monacademic stuff, I noted the presence of a press release from the Canadian film magazine TAKE ONE. This said that their January issue contained a treatment by Brian De Palma (who directed PHANTON OF THE PARADISE and CARDE), and a contest affiliated with that treatment.

I rushed right out (two days later) and finally found a copy of the magazine in a bookstore in Hollywood. Since the magazine is Canadian, the January issue came out in January. I turned to part about the contest, which had as its grand prize collaboration with De Palma on the feature based upon his treatment. To enter, one was to work up a few of the scenes into full screenplay form and submit them.

One problem, and that insurmountable. The treatment was terrible. Not only was it dramatically poor, but the plot hinged on a great deal of technical detail about film and tape, all of this detail erroneous.

I took a shot, but I couldn't write that piece of shit, something I'm sure I shall long regret, as the contest, if won, would have been entres into screenwriting, something almost impossible to get. #SIM# On that typical note, alchases



ON THE WHOLE, I'D STROTHER-VIEN PHILADELPHIA	#3	Leigh Strother-Vien 7107 Woodman Av. #10
For LASFAPA 29 & maybe Apa-L 718, 1at mage only I don't remeber the Madleigh Pub. #.		Van Nuys, CA 91405 (213)785-1613

Lust is an interesting phenomenon. I was in fandom 1¹/₂ years before I developed a fannish lust list. Which is not my complete lust list, mind you. Regard:

B.- Movie stars.(& TV) (Celebrities.) D.- Hormonal level only. A- Mutual interest has been indicated.

- C- "Mundanes" (actually just not in fandom.
- E. For some reason or other, Not A Chance (I think). (Sexual bias is a major factor.)
- * I lust after, but if given opportunity, would not do anything, because

I don't touch other women's males (w/o permission). (*)=approx. equiv.*for female. ** - Uncertain if claimed; if is, see *.

In no particular order:

Tom Stern-A Allan Trimpi-A Jim Duke-C&A Alec Williams-C&A Rex Harrison-B Richard Anderson-B** Christopher Reeve-D*(No, not B) Lilli Palmer-B (*) Laurie Reinecke-E Bruce Pelz-* Thom Digby-Unclassifiable.

"Thin" R. Plunkett-A Beth Schwarzin-A Charles Curley-A Fred Astaire-B Barry Morse-B** Leonard Nimoy-B* Danny Miller-D Richard Chamberlain-B&E Ed Ames-B** Kate Jackson-B (*) Mohammed Reza Pahlavi-B*

Fannish:

Tom Stern, Allan Trimpi, "Thin", Beth Schwarzin, Charles Curley, Laurie Reinecke, Bruce Pelz, Thom Digby.

Faskinatin'. To me, anyway.

I Reserve The Right to change my mind. (too do the 'A's.)

If I had a working Time Machine,.....

TM Lust List, Class A (can only visit 'em): Julius Caesar, Alfred the Great, William of Normandy, Lao-Tze, Richard III, Henry VIII, Sir Isaac Newton, Copernicus, Pope Alexander Borgia (Lucrezia's pa), Lord Nelson, Will Shakespeare, Adam Smith (the 1st one), John D. Rockefeller Sr., Albert Einstein, Robert Goddard, J.R.R. Tolkien.

TM Lust List, Class B (Can Bring 'Em Back Alive): Julius Caesar, Will Shakespeare, Adam Smith.

Hmm. Not one female. Hmm.

Fairly putrid, but it filled up a page. (And I could have gotten a fot more putaio.)

OTW, IS-VP #3, pg. 2 --

Well, that was fun. And now, 4 hours later, I have a spare 5 minutes to $\sharp \not p \not l \not t$, $\not p \not p$ type a 2nd page. Aren't you thrilled.

The past 2 months have been, uh, complicated. I quit GBMR&F, became a toner phoner, had the Russian flu, quit being a toner phoner, became a Kelly Girl, went on interviews, quit being a Kelly Girl, became the Accounting Secretary at Wrather Corporation in Beverly Hills (for lots more money than GBMR&F), registered at L.A. Valley College, enrolled at same, started at Wrather & Valley the SAME WEEK, went to Vegas for the Xmas weekend, went to parties (including the LASFS New Year's Eve Party, which is where I suddenly realized I had developed a fannish lust list), read a couple of books (weel, maybe more than that), got further behind on my correspondence, had a minor car accident, and etc.

AYEWONDER #2 has not been mailed to anybody. I have not been able to afford the postage to even TELL people I can't afford the postage. First Wrather paycheck is due Feb. 15th. At the moment, I have approx. 50 pages worth of material for #3.

My new job means I can afford to publish at least a couple more AYEWONDERs, and.....I'M DEFINITELY GOING TO BRIGHTON!!!!!

Unless I drown in my correspondence 1st.

Eeek. 5 minutes are up.

Danny Miller is the Xerox representative in Beverly Hills. He comes, uh, enters into the office about 1ce a week. YUMYUMYUMYUM. A hunk. He blushes cute, too.

Wrather Corp. is a financial holding co. The corporations it holds include the entities that own the Disneyland Hotel, The Inn At The Park (also in Anaheim), and the rights to The Lone Ranger, Sergeant Preston, and Lassie.

Supposedly, there is going to be a Lone Ranger motion picture made soon. Yeah, RSN.

I have my very own office here.

At Valley, I'm taking Economics 1 (GREAT teacher!), Computer 3 (Intro. & BASIC), Computer 32 (Timesharing BASIC), & Health 10 (A.A. requirement).______ That's 9 semester hours.

.

Maureen's covers have gotten 2 months extension by now, but when you see them, LASFAPA, you are gonna be imPRESSED. Blessings upon Allan Trimpi for getting this month's covers to me early. They're kinda impressive, too.

SUPERMAN is a marvelous movie. Hell, the titles are pure entertainment, and it goes uphill from there. //

Blessed Be. (And how's that for a disjointed zine?)

I LIKE TO SNIGGLE

by Harry J.N. Andruschak 6933 N. Rosemead, #31 San Gabriel, cal. #1778 91775

A zine for the 166th mailing of FAPA, 10 February, 1979

No mailing comments this time around since I've no copy of the last mailing. UN What happened was that we only had 65 final complete copies. The leftovers got ripped off #/ from my car the next day while it was parked in the JPL parking lot. Than Lester started whining about getting a copy, having changed his mind about resignation. He got obnoxious enough about that I sent him my own copy to shut him up.

Hence no mailing comments.

So what I've been doing these last three months???

I. JPL has been \$1, with the Voyager mission drawing to a climax. The reast of this zine consists of Voyager Mission Status Bullitins that can give you just about every idea of the mission except one...the actual feel of working on this greatest of all MMM spaceprobes. Someday I hope to be a good enough writer to convey those emotions.

II. Beverly Kanter has been having a hard time with school and her medical problem. Her shrink has put her on Lithium Carbonate, and it seems the best long range solution to her problems. But a lot of short range problems remain.

III. I have severed all ties with LASFAPA, the monthly apa I founded back in 1976. The antics of Marty Cantor are just too much, and I wish now, much too late, that I had not turned the OEship over to him after that automobile accident that Shhook me up so much.

IV. I have become a director of the NFFF. Enclosed is a membership application form. How can you go wrong in joining an organization with me in the leadership?? Yes I know, you cam. Try it anyhow.

V. I thinks about FAPA a lot. I have several ideas on making the apa better than it is now, but hold off doing anything since I understand that the overwhelming majority of FAPA members tend to be a wee bit conservative about the organization. And yet....

VI. O yes, I am also putting into this zine a report of mailing costs broken down exactly. Please read it carefully. Like it or not, the next constitutional amendment may have to be a dues raise. After all, book rate did go up 50%.

I have decided that the order of zines in FAPA, as far as Toc and all that goes, will be by page size, with large size zines at the front. No real reason except that I think it looks better. Also, the genzines go to the front ahead of the 8 page per year crudzines. Looks better to new and prospective members.

Feel free to write me on anything concerning FAFA, via seperate letter or postcard, and I promise same day answer. I am here as OE to keep this organization running as smooth and as enjoyably as possable.

Only

THE ONLY GROOD OFFICIAL COLLATOR... Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (213) 654-4998. Work: (213) 688-6154 For APA L 713, 1/12/79.

I'm starting another apa -- just what LA fandom needs, fx of course. First mailing: February 17th is the deadline (the TOC may be typed up a few days earlier, so won't claim to be intersection complete.) Copy count will probably be 20 to start. No formal membership. Kerk Copies of the mailing may be bought, if there are any left over after contributors get theirs. For other details, see me.

APA L 711

SHUPP: Fanrelated programming? I'd like to see a panel on the XXXXXX

trink of as heing

"secret" apas, from APA X through A BOY'S OWN APA.//Thank you for defending those of us who want the copy count lowered against Fanning. I'm somewhat annoyed that you were the only one of those in L who favors keeping the copy count at least where it is, who saw fit to do so. (Of course, if it turns out the others simply didn't read Fanning's zine, that's another matter. But Susy Schulman, at least, DID read it -- or at any rate, comment on another subject.) //Nicolai Shapero is supposed to be starting a fiction apa, and you might think about running your story through there -- or there also. However, that's likely to be mostly D&D-oriented, at least at first.

WARREN: Semi-seriously, I think a kissing booth might well raise some money for LASFS. And from watching Pelz, I think he would be a good choice as one of the people participating.// Chalker is a fairly good storyteller, though I don't think nearly as highly of his work as Maureen does. He writes well enough that a couple of people who would hate his guts if they thought he had any like his fiction. (What's labelled as fiction, that is. There are those who say his allegedly nonfictional fanwriting is also fictional.

GUNDERLOY: Deviation from the norm is encouraged in fandom? Not always. I've gotten flak in LASFS for underdressing, and Jack Martin has been sneered at behind his back for overdressing. I've seen, in one LASFAPAzine a few months back, a sneer at one male fan for being a virgin at an advanced age out of religious conviction.//You can handle it? That's what they all say, and most of them are wrong.

RITA: Other hand, if you go shopping with a female friend, that doesn't increase the chances of Deckert getting VD. (Not unless you're friendlier with the woman than you've indicated, anyhow.)//To me, a fan is someone who has a fair number of xxx and the contacts (in person and/or by mail) with sf fandom.

JUNE: I wonder if perhaps there aren't people who would be attracted to a religion which promised that if they joined and were

faithful members, they would spend eternity in Hell?

ROTHSTEIN: No, I wouldn't take on that task in Bill Warren's place. But then, I'm not among those who voted to give Jeff Siegel special parking privileges.//"..are you volunt bering?" Depends who's auditioning volunt eers.

WHETEIN I ALETTACH CON HOP OF INC I COMPETI'LS FORM

2 SUSANOCHKA: You may not see a pattern. However, seems to me the two I'm sure of have a good deal in common.

LEE: I can easily see a just and good God giving people the choice iof reincarnation. You might not want it, but others would.// Seems to me there are FEWER non-Communists with a Communist perspective. The people who consider that Communist methods are so obviously superior that they're the only ones which can be used with any hope of success are losing power. If you're referring to the outcries against "excess profits", that's merely a reversion to the Medieval viewpoint.//MOst fans my age, I find I think of as being about ten years older. Mary Jane Hertz I think of as being about five years younger. Hmm, I notice from the Pelz birthday, list that Mike Glyer and Matthew Tepper were born the same year I began reading the prozines.//I've found some fans with very low imagination -- Drew Sanders and David Schlosser come to mind. Neither bugs me -- at least, not for that reason. Some fans turned pro bug me because of low imagination, but that's another matter.

GLYER: There IS Spam that's kosher, if you're not too the fussy about rabbinical certificates. Spam made of beef rather than pork is made for sale: I in Moslem countries. I saw it in a supermarket in Italy.

ANDREA: But it's not a string of numbers -- every group of digits has a pattern. More than one pattern, if you have the proper turn of mind.//You've never found a group where you think you "belong"? Interesting -- I've gotten some lectures recently on how much of a closeknit Family LASFAPA is.//"Some traits are more desireable than others." Every society has chosen a different set of traits as being more desirable -- see Ruth Benedict's PATTERNS OF CULTURE. For example, one kind of person much admired (though sometimes preferably from a distance) in our society was literally in danger of being hanged for witchcraft - among the Hopi.

DIGBY: If you were to disguise yourself as Jewish, it would take only a couple hours of boning up on Jewish holidays to know more than a lot of American Jews know these days.

CELIA: I thought you knew -- she isn't really my wife. It's a long story, but it all started when Glyer decided he preferred her sister and kicked her out.

RITA:

that broise of APA L 710 APA that

RITA: How else can one meet people? In bookstores, in lines, on the bus, in libraries, on the street, at political gatherings, at dances, in bars, in restaurants.//If the perfect woman is looking for a vasectomized man, my chances go up sharply. Turns out that most men who get vasectomies are married or shacked up.//Actually, I DID decide I didn't want the operation. But at that point, it was literally halfdone. And it was only a momentary impulse, anyhow.

JUNE: J imagine Neeters objected to Buchman's suggestion that The Adventures of Mikey should've ended with the hero putting the pork to the girl. But I didn't know Neeters kept kosher.

ROTHSTEIN: An apartment alone? Hope you find a compatible rommate.

CARSON: "..the world needs more Carsons." Now all you have to do is find one or more women to help you produce those additional Carsons, earn enough money to support the kids, and all that. At any rate, I'm pleased to see someone making a decision. Too many people, I think, don't decide whether or not they want kids till they're either too old to have the ones they want, or want to be childless and already have unwanted kids.

MAUREEN: Quite welcome://I've been doing Lzines since March of '69, with one gap of about a year in '71 and various shorter gaps." So I don't know how many Lzines I've done. Before that, I contributed to APA F -- the first local and first weekly apa. I've also done zines for: two "secret" apa (one of which I can't recall the name of), TAPS, RAPS, VALAPA, FAPA, MINNEAPA (still active), LAS-FAPA (dropped out about the time it became definitely what it is today), SCAPA FLOW, the Cult II, and maybe a few others.//1. I doubt that there are Communists in high positions in this country. For that matter, there is reason to doubt that there are r Communists in high positions in the USSR. 2)First, establish that moral standards are decaying. Which is simple, once you establish the criteria for judging moral standards. 3)Don't know.

CELIA: I'm familiar with the bit about dating (or whatever) =

he/she has consented to an exclusive relationship with me. I can see where an open relationship with the people not living together might not give sufficient protection against this. But I think there are other ways of solving the problem. (I hope there are, for the sake of those who don't want permanent or semi-permanent relationships at the moment.)

SHUPP: But publishing apazines used to take a lot less time and energy than it now does. There used to be only quarterly apas, and then maybe a few bimonthly and monthly ones (and one triweekly one +- the Cult, which I understand began as biweekly.) There were also fewer genzines, fewer and smaller cons, fewer as readily-available femmefans, etc.//Apparently, Gail Barton is thinking of a situation where one fanclub dominates the local Alter fanscene. However, I started in a local fandom (NYC) where there was a multiplicity of clubs: At one point during the Sixties, there were at least three biweekly clubs (plus maybe ten others which were monthly or whatever, plus some regular parties), and two of them had largely-overlapping membership. There were also people in both who at least occasionally attended meetings of the third. I occasionally attended meetings of a solution two clubs in one night, and I wasn't the only one. Even where the domina nt local club meets less to often than once a week -- the Twin Cities, where Minn-Stf meets every three or four weeks, has about two fanparties a week. This serves to keep it fairly closeknit./ whereas the state of the state of the state

DECKERT: I think I can guess who mailed that letter: I expected better of him. Saying Jumper is the most incompetent *** ever to be OC, indeed -- these neos don't know about the Bad Old Days, do they?

PAULA: I think I'd like to see a panel with you and Pournelle, on what the military of the future is likely to be like.

area selven) more than and where ther con Cherles Karts

raha. J'dob yoY :00

FANNING: You say you'me "being completely honest in your"

evaluation of the situation. I might find that a lot easier to accept, if you didn't make it obvious you considered everyone who claims to have reasons for wanting the copy count lowered other than those you've attributed to them dishonest. As it is, I think you have the theory of a dogpoisoner.

VARGO: You don't understand. One world each for the ecofreaks and for the exploiters means a whole lot higher investment. It means finding a lot more people i And it also means that the people on each world have a better chance of getting along, at least for a few years. I And you can't have a profitable arms to business if people are neally getting along, dan you? Out of conts are (ovide 11:te) At 100 ASAT ASATA PAR 2001 (to om

GRAY: One problem with thermal sterilization -- it's experimental. And I presume you know what that can mean in terms of un-

expectedly high failure rate, at least by analogy with experimental aircraft. (Though at least, there isn't likely to be a problem with parts falling off suddenly in use.)//Okay -- Tet's

look at your description of those who want a lower copy count, checking it against the seven you name. 1) "Highly skilled typists" --well, reasonably accurate as of present time. Six at least of the seven have earned money by typing. "Highly skilled" is a Mi matter of definition; for example, I'm a clerk/typist; which a means I only had to prove I could type about 45 words per minute. However: I began contributing to L at a time when my wordnate from wasn't high enough for me to get a typing job. I suspect that the people you name mostly became good typists (relatively) because they wanted to set things down on paper. 2)"Good physical con- tage dition." Bill Warren and Matthew Tepper have health problems which they've discussed in L. I have some which I haven't discussed, But -- you have problems with ONE finger. I have trouble with all of mine. 3) RElatively young -- balderdash. You name people in their man Twenties through middle Thirties, which is a lot older no late than the LASFS average.

ANDREA: Internal Revenue.

JUMPER: In some ways, you've done a good job. Other ways, not I think you've gone out of your way to avoid really listening to complaints, have evaded making certain decisions AND you should it

Maye you've just never slept with the right x. gerbils. //But Marxism isn't the only quasi-Newtonian brand of economics. Most Adam Smith's brand of economics -- which definitely predates Einstein and Heisenberg. f Joir bol

BETH: Of the "open marriages" I've seen break up, in most cases

there were various strains having nothing to do with sex on Ved the marriage. Same for the monogamous and pseudo-monogamous relationships I've seen break up.//Bob Cohen can't be blamed on Alba' Scientology. Ask those who knew him pre-Scientology. He can't be blamed on Libertarianism either, any more than can Charles Korbas. INTENTIOAL IS MISSPELLED. Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (213) 654-4998. Work: (213) 688-6154. For APA L 714, 1/18/79. The first American politician to make a 180° Turn in his policies, so far as I've checked, was Roger Williams.

APA L 712 (Determined of the second s

ter - aona. Chaile

JUNE: I think that a fish trapped in the microwave oven would be in some ways harder to deal with than most of the other hassles of having power off for a week. A refrigerator, for example, can be emptied and left open. (I once encountered one that hadn't been...)

HERTZ: Sounds like the same turkey recipe which appeared in the MKX HERALD FXAMINER. If so, it's originally from a novel titled JOE THE WOUNDED TENNIS PLAYER.//Writers dealing mostly with one emotion: occurs to me that STurgeon's characters run on curiosity. When they experience anger, for example, what it does is make them even more curious. Same with love. Clement's characters also operate on curiosity. To a large extent, Anderson's characters operate on a sense of responsibility.//Safe Laws and Safe People -- but also Safe Customs. That India holds together politically and economically better than Argentina, for example, when Argentina should be able to do better because it has more resources per population (and a largely literate, and otherwise fairly sophisticated in modern ways, population), seems to have a lot more to do with customs working than with anything else working.//What about students picking up teachers?

PAULA: You'll have done it or not by the time you read this, but I would say going to Europe on your own is a great idea. You won't be lonely except for whatever loneliness you bring with you. It's quite easy to meet people, especially if you want to.//Just for the Hell of it, how do you go about turning down a proposition?

LAURA: "...since it was the first disty, I couldn't make an error with the personality of the APA because Iwas one of those creating it." Sorry, but things don't always work that way. I was one of the first contributors to LASFAPA, and contirbuted fairly steadily till I decided to drop. And I was definitely not x one of the people creating the gestalt.//As for not making mistakes when you start in L -- the only way of seeing whether your comments will fit in is to see how the feedback goes.

WARREN: All understandings based on hearing what people say are also approximations. Same probably goes for telepathy, if it exists.

DIGBY: I thought everyone knew that Neeters was a breakfast cereal during the early Sixties.

MAUREEN: I didn't attend the New & Years Eve party at the clubhouse mostly because I couldn't be certain either of a ride home of of the party lasting till buses started running in the morning.//I don't think anyone is obligated to invite someone they normally DO invite to any party, either.//So which of Carter's actions bug you? I must admit that I think defending the just-defeated Cambodian regime AND the Shah of Iran seems to lack something in common sense and concern for individual entitwlements. HOwever, when I voted for Carter, the realistic alternative was the man who had pardoned Nixon.

INTENTIONL PE MISSEDIED. Dan C. Mag. 2041 N. Curson C.

LEE: I find most descriptions of LA to be downright false. Like the one about LA not being considered to have ethnic groups be-cause the ones here are nonwhite. Even if you consider all Latin Americans nonwhite (and I understand some would be rather miffed at that), I thought Armenians, Greeks, Italians, Irish, etc. were white. Of course, LA is simple to describe -- if you take a limited area. Just as NYC or Chicago or San Francisco is easy to describe.

BEA: "They were originally custom made and mine came back a little tight." Seventeen "tight one" references deleted from comment.

CARSON: I was fourteen in '57. I didn't like the music of that era much then, and don't care for it now.

BETH: "I'm extra glad I'm female this week." Since I don't Know what choice you made THIS week, I won't comment.//Bob Cohen is unlikely to have been kicked out of Scientology for selling vitamins. For one thing, Scientologists seem mostly to be in favor of large doses of vitamins. (Though not like the people who claim that all MEXXXX mental illness is physical in originx and can be cured by heavy doses of vitamins day after day.)

SLANDERCREW: 1) You want LASFS business meetings to be Serious and Constructive. Go ahead two spaces while your wife XXXX laughs at you pungently.

2) You assured Celia Chapman that Slandercons weren't about any kind of nastiness at all, at all. She's not that gullible, so lose one tern.

3) You've had a lot to do with making LASFS what it is today. Go to Petards, and ask for XXXXX sanctuary.

For the most part, I'd have to class your xxxxx schticks as "almost funny." However, I did note one rather clever reference to me which I suspect most readers will miss. Wonder how you found out about it? I thought only Mike Shupp and Leigh Strother-Vien knew about it (except for the Cleveland fans directly concerned and the -- well, never mind.) Tepper probably knows enough to figure out most of it, but I don't think any of you are exactly in close touch with him. Oh, of course -- Fred Haskell probably mentioned something at Loscon, though he SHOULD know only part of the story.

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Exa. and gainet

IT'S ONLY A SMALL DOMESTIC GOD, BUT YOU MAY BE AMUSED AT ITS PRE-SUMPTION. Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (2] 3) 654-4998. Work:(213)688-6154. For APA L 716, 2/1/79

APA L 714

CELIA: I expect LASFAPA to change considerably over the next couple

years. I think the honeymoon period is over. What has to happen now is, either the hard core has to do something new beyond finding each other, or there has to be an infusion of new blood.// And they wouldn't even let him watch?//"..all the other governments made decisions on the basis of what would work best to achieve the desired economic aim." I wonder about that. I'm thinking of the Japanese and European agricultural subsidies, the policy of running nationalized industries so as not to lay anyone off rather than for maximum efficiency, various tariffs, very much etc. &

all that. And for the British government, your source conflicts with my source -- someone whose job with British Steel involves economic forecasting. "We praise other and more distant monasteries, describing them as more helpful to one's progress, more congenial to onex's soul's health..."

JUMPER: To me, one of the more interesting aspects of the McCarthy

era was Hank Greenspan's valiant fight against witch-hunting. Greenspan is the newspaper editor who, outraged by all these smears, spread the word that Joe McCarthy was a homosexual. //A. J. P. Taylor has pointed out that the division of European spheres of influence after WW II, while it gave the USSR client countries which wouldn't have gone Communist of their own volition, also gave the US client countries which might easily have otherwise turned Communist.

WARREN: On cardplayers being banished to the back building if anyone complains -- has anyone tested that lately?//Several months ago, I read (in LASFAFA, I think) that the '77/'78 Niven New Years Eve party had a lower percentage of LASFSians attending than in past years. If so, and if that trend has continued, then in a few years an official New Years Eve party may not effectively have to compete against the Nivens' party.

DECKERT: Glad that Fanning is expressing himself more moderately. That bit seemed a bit out of character, from what I knew of him. Which is why I toned down my comment. Twice. (This isn't'a joke.) //How about TWO gift exchanges? One for gag gifts, the other for "real" gifts.//I suspect that what really defends this country is, 1)no one really WANTS to run it -- they have enough trouble at home, and the needed troops for a longterm occupation would divert military strength needed elsewhere, 2)There is no such thing as a reliable puppet government.

RITA: Actually, two LASFSians have criticised the way I dress. One you can guess -- and he was genuinely trying to be helpful. The other was Greg Chalfin.

SHUPP: I think you need a bit more excitement at the beginning, as a hook. It's compelling once you get into thing HAPPENING, but at first all you have is this guy working on his thesis. (Which, come to think of it, is the beginning of Heinlein's "Dy His Bootstraps," which for that reason you might want to study.)//Which arm does Tim Harper have trouble with, and just exactly WHAT are the effects? What limitations are there? And as I recall an earlier draft, the handicap is no longer present later on. I suggest you either make a lot more of it and keep him slightly handicapped, or eliminate it entirely. Or maybe have a big scene where he gets cured.

LEE: Luckily, I've adjusted my hours so that I now have time to go to the downtown Self-Help one or two days a week. Which is good, because the purpose for which I changed my hours hasn't been accomplished. It was supposed to give me more free time.// "Anyone stupid enough to choose reincarnation probably deserves it." I think the TIBETAN BOOK OF THE DEAD says something similar.

DIGBY: Richard Carson didn't specify that the additional Carsons had to be human. In any case, I don't think he could sire enough children to make much difference in the population statistics. A one percent margin of error is considered wonderful, so a few thousand more Carsons wouldn't affect the statistics at all.//Yes, I was about as involved with Melvin as anyone except those running it.

SUSANOCHKA: The idea of Prince/Princess Charming lists, for me anyhow, is that they give one a better idea what to look for when seeing people in person. Matching of such lists, to see if you fit each others' lists, before you meet in person doesn't seem very workable to me either.

FARKASH: After hearing about various side-effects of the female Pills (and that was supposed to be VERY safe, when it first reached the market), I'm leery about any male Pill.

CAT: "a certain gentleman" is a good description of Marty Massoglia.

APA L 713

I tossed a coin to decider whether I'd comment to Mike Farkash. Heads I'd comment, tails I wouldn't.

RITA: "a touch of arrogance, an air of keeping his real emotions private, a few elegant intellectual ' neuroses" -- that lets me out, on that last one. My neuroses ain't elegant.

JUMPER: You seem to be worrying a lot about LASFS. The things you see wrong are of fairly long standing, though the particular effects that bother you may not be. Get laid. Regularly. You'll feel better.//I don't find the clubhouse very partylike, for some reason. If there are a lot of others who feel the same way, then parties at the clubhouse are unlikely to be successful.

JUNE: What would Dumas have done with a word-processing system? About a novel a day till he got the hang of it, I imagine.//Okay, so no Spam in the Gift Exchange. How about Treet. Treet is imitation Spam, in an easy-open can. Opens so easily, it can open several for days before you decide to put it in the refrigerator.

WARREN: My father's up in Sing Sing, My mother's at the ****
 track, only one to mind the baby is the monkey on its back.//
"Most male fans are open to the point of nakedness; those who
aren't stand out somewhat." Which category do you include me in?
//People who don't talk about being depressed are, it seems to me,

particularly likely to be depressed.//Yeah, but howcome ALL S&S artwork seems to have the characters staring into the camera? Even if they're all traced from photos, surely there are peop&e around who can pose models so they don't look into the camera so obviously?

MARJII: Sounds like good advice. This kind of thing is an example of why I would like more LASFSians to be in APA L -- no one but you could have contributed that, and everyone has something unique to contribute.

LEE: I didn't say that I considered Le Guin a "hard science" sf writer. What I said was, she pays more attention to hard science than some "hard science" sf writers. Look in the second ANALOG ANNUAL (the LASFS library has it) for an article which, among other things, gives a table of correlations between liking for hard science and for various sf writers. Gordon R. Dickson scores high. The last ten years of his work probably contain less hard science than any one book by Le Guin.//What's this about the economy getting wrecked? The WALL STREET JOURNAL pointed out recently that the economy has expanded as much as we can stand, that all this recent prosperity is dangerous and a recession is needed to bring things back into balance. (Sorry I didn't save that piece for you, but my stomach was weak that day.)

DIGBY: I find all-letter numbers easier to dial on a Touchtone, because the patterns make more sense in terms of physical movement.

MARJII: The way to build up political support for the space program is to give people the kind of benefits that bring votes. If there were a lot of jobs in Wisconsin directly dependent on NASA, for example, then Proxmire wouldn't be likely to publically claim the space program was a waste of money.

LINDA: Married? That's probably a better idea than crossing the US by bus -- though having tried only the latter myself, I can't say for sure. Done it twice, and there's nothing like it to help one appreciate airlines.

PELZ: I'm not worried about it not "taking ". I will scream if it turns out not to have, but meanwhile I'm not worrying about it.//When I made that comment, I'd just had to deal with a situation where someone tried to spare my feelings -- and hurt them, where not trying to spare them wouldn't have.

TRIMPI: For music schedules, try the LA TIMES on Sunday and HERALD EXAMINER on Friday.

BUCHMAN: Naked guys on APA L covers? I think Humbaba (from the epic of Gilgamesh) might be appropriate if this bit from Jongo

of Gilgamesh) might be appropriate, if this bit from Jorge Luis Borges's THE BOOK OF IMAGINARY BEINGS is accurate: "he had the paws of a lion and a body covered with horny scales; his feet had the rise claws of a vulture, and on his head were the horns of a wild bull; his tail and male member each ended in a snake's head." (Doesn't saywhether he was circumcized.) THE BEST OF CELIA CHAPMAN. Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (213) 654-4998. Work: (213) 688-6154. For APA L 717, 2/8/79. Comments are on APA L 715.

APATITE #1 will bem collated on the 17th. Deadline is 2 pm. I've discovered that at least one person assumed collation would be at the clubhouse. It will be at my place, which I find easier to reach from home than the clubhouse. Infinitely so. I don't have the facilities for collating most efficiently, but I don't figure on being very efficient the first time anyhow.

JUMPER: Considering the district Bella Abzug used to represent, I strongly doubt that she didn't at least make some token statements about Soviet treatment of Jewish dissidents. Of course, if you've read every word she's had in the CONGRESSIONAL RECORD, I'll bow to your superior knowledge.//Let's take the paranoia one step farther. The worst thing that could happen to Soviet power would be a Marxist USA -- and espectally a Marxist-Leninist USA. Every time the CPUSA begins to do something effectively, new orders come down from Moscow which **xx** cripple it. Meanwhile, it has effectively made it more difficult to get an independent Marxist party going in this country. Of course, there are those who claim that the Bolshevik Revolution was masterminded by the Rockefellers and other American capitalists. Van Vogt, anyone?

CELIA: I've burned out on the word "love" in the past myself. Been thinking about how to recognize love when it happens/happens again. One strong indicator, I think, would be a greatly diminished need for privacy.

GUNDERLOY: That alternating aspirin and Tylenol was recommended by an RN makes it sound better -- though even so, your using it instead of bed rest is uneasy-making.//So you're against government? Fine -- what are you willing to give up, or find alternate sources for?//You can write at least a few lines about the chemistry of apatite -- though I suspect no one except Sam Konkin is likely to comment on it.//On the differences in the way minds work: I recommend Charles Tart's STATES OF CONSCIOUSNESS. Note: your explanation seems to seriously underestimate the divergences of mindworkings. It doesn't account, for example, for k the great difficulty most people have in seeing sounds while a few of us have no trouble at 🔭 all.

LEE: But remember, the Communists first came to power in the wrong country. So who knows how inept they may be?

JUNE: Neeters hasn't denied having been a breakfast cereal, and therefore it's almost certainly true.//The spohisticated politimcoes haven't been doing so well either. Which is why Carter and his crew are in the White House, and they aren't.//Come to think of it, I liked both PURPLE PEOPLE EATER and MY FRIEND, THE WITCH DOCTOR. Both by the same man, I think.//One tern to rule them all, one term to gull them. One tern to rule them and, and

BJO: "Craig Miller is wrong..." That's plausible, but I don't offhand recall his menfioning you and John not still being around.

HERTZ: I gather Chicago had snow.

in the darkness shoal them.

ENEY: "..greedy or insane dictators.." That's good news, if you really mean there aren't any both greedy AND insane.

2

LAURA: How Communism works seems to depend a lot more on past history of a country than anything else. There are some surprises -- one wouldn't expect the comparative freedom of Yugoslavia. But I suspect that a Communist Britain would be as inefficient as ever, a Communist US would have a legislature with a seniority system, etc.

BETTY KNIGHT: Keep in mind that, in many ways, government acts to maintain privileges. Among the forces for inequality which would vanish if anarchism came: immigration laws, agicultural price supports, restrictive licencing, zoning laws.

LINDA FLUDE DANIEL: I believe the idea of kissing, Pelz has occurred to various fans at one time or another. As for the kissing booth idea -- he's presumably read about it in L.//Nonbelievers would go to heaven. They would lead an exceedingly dull life. If there were sex, it would be completely free of the sadistic elements needed to make it exciting. Card games would be completely friendly -- and where's the fun in that? There would be no good arguments -- only intelligent discussion.

SUSANOCHKA: The REAL trick is to be honest with YOURSELF. Few people manage it, even of those who try.

MOORE: You misunderstand. I don't try ot have a new title every time. I simply use a title as long as I still x like it. Which turns out to usually be only once. I would love to find a title for a fanzine which w would be as nearly perfect as, for example, the title of Murray Teigh Bloom's book about counterfeiters: MONEY OF THEIR OWN.

PAULA: What amazes you about Chalker's descriptions of his characters' sexual behavior? At least some of it, like in WEB OF THE CHOZEN is presumably well outside his experience no matter what that experience might have been. For example, I doubt way that a single act of intercourse lasting about ten days is usual for him.

ME: Turns out Nate Bucklin isn't coming to LA, at least as of now.

A State State of

Go and tell my baby sister Not to do as I have done Until we get the union in at the House of the Rising Sun. THERE IS NO SUCH THINC AS A DPY XX X SOCK. Dan Goodman, 1043 N. Curson #7, Los Angeles, CA 90046. Home: (213) 654-4998. Work: (213) 688-6154. For APA L 718, 2/15/79. Comments are on APA L 716.

BARNABY isin the LASFS library, if anyone's interested. (Or even if nobody's interested.)

GUNDERLOY: On whether FArlash has the entitlement to get stoned every day or not - that depends. If it puts him in the höspital, I for one will end up paying for it indirectly in several ways. (If the hospital is "private , both it and its dostors probably get some kind of government money.)//It was stated that a microvave oven couldn't le opened during a power failure. Since I have never needed to bake a microwave, I didn't know enough to know whether that as accurate.//Peligion doesn't kill people. People kill people.//In an anarchy for at least the first generation there would be some unfair advantages. You would have the benefit of whatever support the government has given your parents in main-taining their position in the class structure.//Oh. I think at least one of the Founding Fathers would have LOVID the Interstate Conmerce Commission. Alexander Hamilton's main criticism of our day would probably have been that the Secretary of the Treasury had too little power.//Comments on your comments to the diaryzing will be in its next issue.

LANGDELL: 'Being like that would make me so different from how I am now, it's scary!" I understand the feeling. I strongly advise you not to let xxx it stop you from making small changes which can develop into larger ones.

atte

CELIA: If you're talking about the Dvorak keyboard - one of the points raised in its favor is that the now-standard typer keyboard puts too much of the work on the left hand. Since I'm lefthanded, this doesn't incline me to try the Dvorak keyboard. Mohow.

JUMPER: I don't know whether the Rosenbergs were guilty. I am, tho, fairly certain they didn't get a fair trial.//I think you xxx would find kissing Bruce Felz interesting. For one thing, I don't think you're used to kissing anyone who has a ixi beard. You seem to be confusing "interesting" and "enjoyable.

JUME: F. A. Lafferty did a story in which we all had ESF, but didn't realize it. A mad scientist built a machine which blanked out ESP for the a whole city. Arong other effects, no one then knew what traffic lights were for.

WARREN: It's possible for waitlisters to contribute to LASFAPA.

And L wouldn't We surprised if the waitlist shortens suddenly. That happened in TAFS, for example, which went from a long to a d negative waitlist. Incidentally I suspect LASEAFA has a long waitlist partly because it has a long waitlist. The 'They've struck oil in Hell" effect.//Surely you've known-people who could get through any ONE day without -- for example - alcohol, and yet were alcoholics?

SHUPP: I rather doubt that the future will use lefthanded rather than righthanded screws. Even if there's been a Elowup, I think screws are simple enough that they would survive rather than having to be reinvented.

THE TRACE IN THE THE PLANE

(uprau)

2 and 100 methods (012) DIGEY: Actually, Lindar Daniel used to be Dan Alderson.

HERTZ: Yeah, sex can make one feel nourished. It can also give the effects of having ** overeaten something you didn't like anyhow. Note: just what do you mean by "sex here? XXXXX Ve may need to separate out the effects of 1)orgasm and all that, 2) touching, 3) being with someone with whom you want to be close (or don't, as the case might be.)

LAURA: Nitpick time: a disty is a distribution of an apa. A disty (aka distr

ibution, disty-wisty-pooums, mailing, umpkin, chicken salad sandwich) is the thingie you get one copy of. The apa is the continuing string of them. //Nope -- it's my observation that the personality of an apa can get established rather fast. Sometimes it takes a while, as with TAPS -- it was called the Cult 45 for a while because it was so flavored with the Cult and APA 45. But it can also be awfully fast. For example, I think I see a shakeout already in SCAPA FLOW, a settling-down of people who fit the style it's beginning to develop. And anything out of character will either be ignored, or commented on as if it fit.

PITA: Drugs react differently on different people. For example, I've read that there are a fair number of people who get no

PAULA: A "safe at last" party is an idea worth considering. It has two problems. 1) The LASFSians I would most like to invite might insist on bringing their boyfriends. 2) It's a bit early to hold such a party. It will have to wait till I've been tested twice, and both tests turn up absolutely pegative.

DECKERT: Oh, let Gunderloy put his political views up for comment. He deserves to have then commented on, and the mental exercise of replying will do hin good. anin'i

LEE: I think your father might be well-advised to figure out the top rate he can afford to pay a nurse, and then advertise a

job at that rate. If it's more than he's been paying, he might get a better class of nurses that way.//Famela acquired Rodney's mother's clothes by robbing her grave, of course. //The Communists are not all playing on the same side of the board. Matter of fact, one of my current worries is that we might find ourselves sucked into a war between China and Russia.

*In the past, several ellers have included their Lust Lists in their zines. These lists have been in codes which could be broken with varying degrees of difficulty. t. if tirst

I am now going to do the xx equivalent of a diagramless crossword puzzle. See if you can guess, without any such clues, which female LASFSians are . on my Lust List. (It also contains some non-LASFSians, but that's a little TOO difficult.) I'm interested in seeing how close whose answers come to the truth.

Note: I may very well not give any information on whether your guesses are correct. Have fun anyhow.

is, in case this is not immediately apparent to you drooling hacks, the second APA-H gine from Finster T. Grimes and Elrond Haberdasher. No address available -- send mail c/o Elst! (Not that he"Il forward it, but his parakeet might appreciate it). This is Greech Publishing Production #19b.

Actually, this is just Elrond righting (even writing) now. Finster is gone, missing -- probably knocked off by those damn Illuninati agents that keep hiding outside of the front door. I am writing in a state of semi-mania, waiting for Zimmerman to appear and drag me away, kicking and screaming, for another fix--in the meanwhile, there's nothing more illegal than beer in the House (Yeah, it's still illegal for me, but see if I care:)((Oh, by the way Erichsen, I am not Dan Gordan. I can prove it: Dangor is a hoax and you know it. P.QE4. There-ask David the Schloss. He knows). Damn, rambling again. This calls for another beer.

awshit, the tap's run dry again. Oh, well. Look, folks, this ain't a hoax. The only reason it's going through APA-H is that those damn Illuminati can't track me down--unless the Official Fruit is one of their agents, and I don't think he is.

Damn, start over, Look: Holmes was right. "I cannot think why the whole bed of the ocean is not one

solid bed of oysters ... " Yeah, that's it, the orsters. I think the crawfish are in it too, and probably the lobsters ... but mostly the oysters, the shock troops, breeding in the steam pipesm I can hear them crawling around the radiator, making their soft, squishy, loathesome sounds

Hell with the bad of the ocean, they're getting ready to take over the land....If they can breed a type to resist live steam, the airbreathing ones can't be too far away I know where they got the knowledge -- that tample in Atlantis, they must have learned to read it, or maybe it was the foul emanations from Yog-Sothoth that did it. In any case, they've grown smart, cunning, they're probably on to me by now, Ohmighod

Deep breath. Calm. Must tell people before they get me ...

Look, if I stop writing, tell Hlavaty, tell him they got the

Popesse

I'm rapidly running out of room to maneuver. My diplomatic immunity papers from Botswana have expired, and I don't dare approach the embassy for new ones.... There are these two things in trenchcoats lying in wait by the door, their faces lost behind the hoods, and smalling of fish

The cash flow is getting acute, too. My agent in Switzerland is dropped out of contact, he won't answer my cables, they just come back all wet and smelly. I think the trutt got him, poor bastard. I hope it wasn't too painful, that he got to the cyanide tablet before they could do him in

They can't stop me this easily! Where's Zimmerman, we have to rob a bank or something, quick ... before they realize how desparate I am. That's it, if I act on impulse, they won't have the chance to read my mind-I wish the lead shielding was thicker ...

"ia: Ia:...Shub-Riggurath ... Ugh! Cthulhu fhtagn !... Ia: Ia! Cthulhu! "

I can hear then chanting, out in the hall ... trying to get me to come out, fight them on their own ground. Well, no way. The wards are up. I should be skay in here, unless

DISLERS DEER 4 THEFT F2

Ow, whit, I here Linnersan can make the climb up the trellis without attracting to much attention. We're on the fifth floor, but he know the job was dangerous when he took it... Where is he, anyway?! This is guiling to be a desperate situation, I may have to hight my way out...

No. that's just what they want. The microwaves must be getting to me, or mayor in starting to believe in the ghost of Patton (he's sitting on my bed, stoking one of these damn smelly cigars, mutilating a poyed gerbil with his carenomial sword...). No, they won't get he this easily. Jone in and get me, you dirty yellow fairles! I know you're out there, I can hear you breathing and slithering! Answer me, ghoddanni;

Nothing They're trying to wear me down, to break my spirit. Forget it I'm poing to fight them to the last...

Which sight be dann scon. if something doesn't happen to break this deadlock. I've been up for about 117 hours straight, and I can't take it much longer. If only Finster was here, he could spell me...But I haven't soon Finster since he snuch out the window on fuesday, trying to draw off the Pterodactyls. He was a brave man, I'm going to miss him. When you get disgusted with the human race, think of Finster T. Grines, and kill an cyster...

Shit! What was that? There's something coming in under the door, it's sliny and ... Excuse set ...

Get it! They don't like fire...But getting it took a lot of the air in here. I may have to pry open one of the windows scon, and I don't want to do that because the Pterodactyls are back...Just let one of them get his beak in here, and it'll be all over. But I have to breathe scietime..

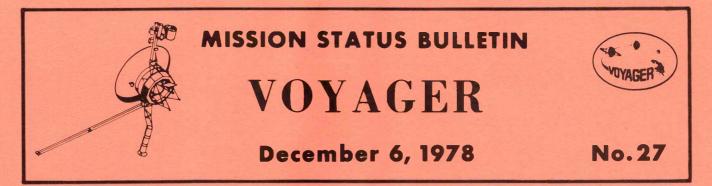
Ah, a break! They haven't found the old steam pipes yet, and ther's still a bit of air left inside, stuffy as it is. Still, I'd better keep it covered in case they start cozing out of it...That's the worst part, if they could walk I could almost accept it, but they just coze: It's not natural!

Oh, Cawd, new there's howling out in the hall, and I can hear some screams from the next room over...The werewelves must have shown up, and they've finally get to that poor pothead next door. No more communication by Morse code on the water pipes with himthey're just picking us off one by one. We need a common front: Discordians of the World, unite!

And get me out of here!!!!

I wonder what's next after the werewolves. This constant waiting is getting to me, I've already mixed all the thermite I can, and the Cocktails are sitting in a neat row on the desk near my left hand, the Schteisser is on my right and the gas flame to light from is already going. They have to cross the room to get to me. I'm secure in the corner babind the sofa and 1V table, I should be able to take quite a few with result they attack before I drop off. That's what it is, of course, they're waiting for the typing to stop, and then they'll ruch is when I'm down...

In, Beatles on the stered, time to crank it up real loud and watch the window ratile, maybe it'll disrupt the bastards cells or consthing, just relax and lot the waves of music wash back and forth across me, crasting or the walls of the room...



Mission Highlights

A flurry of activity in early December will conclude the flight team's test and training period, and will be followed by a 2-week period of low activity on-board the spacecraft to give flight team members a break before Encounter Operations begin in earnest with the Observatory phase on January 4, 1979.

Most of the activity will center around the encountering spacecraft, Voyager 1, while the cruising spacecraft, Voyager 2, will continue its routine calibrations and housekeeping chores.

Near Encounter Test

Highlight of the spacecraft activities in Voyager 1's final month of the Earth-to-Jupiter cruise phase will be the Near Encounter Test on December 12 through 14. This will be a thorough preview of the 39-hour period on March 3 through 5, 1979, when Voyager 1 will make its closest approach to the giant planet Jupiter.

The Near Encounter Test will put the spacecraft, tracking stations, and flight team through their paces in a scenario as near the real thing as possible. Instrument pointing will be restricted during the test, however, as many of the instruments must not point within 20 degrees of the Sun. During closest approach in March, the Sun will be blocked from the instruments' views by the planet and satellites, but during the December test precautions will be taken to protect the instruments.

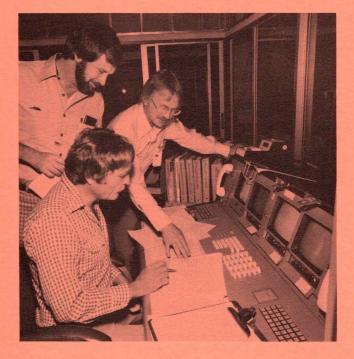
Assessment of the Near Encounter Test performance should be completed by January 5.

Test and Training

The Voyager Project acquired a new spacecraft in November, but this one is a phantom and all of its activities are simulated, since it is used for test and training. No data from this spacecraft ever appears on a controller's display, but detailed timelines of its activity are always within reach, and its data conditions are passed by voice or slips of paper.

Why the elaborate "game"? The problems of the phantom spacecraft stimulate utilization of recovery procedures and the tactics of applying resources to problem solving. Anomalies of all sorts are simulated: antennas begin to drift off point, high winds suddenly force the stowing of simulated stations imperiling critical data playback, key personnel become mysteriously incapacitated. All of this could happen for real, at any time of day or night, and so the flight team is geared to cope with any contingency. Nothing must go wrong during the critical encounter period in March.

The three key encounter sequences to be transmitted to and executed by Voyager 1 in early March have been tested under real pressures and real schedules, while the two cruising spacecraft have provided practice in real data analysis. And although a fine line is followed between impacting on-going operations and the requirement to train for Encounter, one never knows when the emergency could be real...



AFTER A PHANTOM – Keeping track of simulated spacecraft events during test and training are (seated) Wayne Henry, lead mission controller, and (standing, from left) Gerry Stillwell, deputy mission control team chief, and Rod Zieger, mission control team chief.



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Readiness Reviews

Prior to the Near Encounter Test, a series of readiness reviews will be conducted to assess preparations for Jupiter Encounter.

On December 5, the ground data system (GDS) will be reviewed, with reports on the tracking stations, computing facilities, data lines, and procedures. Also on December 5, the imaging review will assess the status of the imaging system and the plans for imaging during the Encounter phases.

The Encounter Operations Readiness Review will be held on December 7, with reports on the readiness of the flight team, the Deep Space Network, the mission control and computing center, and the public affairs office.

Finally, on December 11, the final cruise-phase meeting of the Science Steering Group will brief the scientists on Voyager 1's Jupiter Encounter preparations status and the science investigators will report on the status of their respective instruments aboard the craft.

Imaging

Voyager 1 is expected to return Jupiter images this month which will exceed the resolution of all previous Earth-based photographs of the giant planet. Beginning December 10, a 20-hour "movie" of the planet will be taken, with shuttering of the cameras every hour. This period will cover two rotations of the planet, and will provide 3-color coverage of the planet every 36 degrees of Jovian rotation. The movie to be taken in late January will involve shuttering the cameras every 96 seconds and will provide 3-color coverage of the planet every 3 degrees of the planet's rotation.

	Distance from Earth	Distance to Jupiter	One-Way Light Time	Heliocentric Velocity
VOYAGER 1:	618 million km (384 million mi)	90 million km (56 million mi)	34 min 24 sec	50,706 kph (31,500 mph)
VOYAGER 2:	574 million km (357 million mi)	154 million km (96 million mi)	31 min 49 sec	46,090 kph (28,639 mph)

The Voyager Spacecraft

(This is the ninth in a planned series of brief explanatory notes on the spacecraft and its subsystems.)

Part 9 - Radio Science

The same radio system that provides tracking and communications with Voyager will be used to explore the planetary systems and interplanetary space.

Measurements of Voyager's radio communication waves will provide information on the gravitational fields and atmospheres of the planets and their satellites, the rings of Saturn, the solar corona, and general relativity. Science Objectives

Changes in the frequency, phase, delay, intensity, and polarization of the radio signals between Earth and the spacecraft provide a wealth of information about the space between the two and about the forces that affect the craft and alter its path.

For example, the gravity fields of the planets and satellites will pull on the spacecraft, altering its velocity and thus changing the radio frequency. The mass density of the satellites and the internal structures of the planets can then be calculated from the observed effects on the spacecraft.

When the spacecraft moves behind a celestial body, as viewed from Earth (called occultation), the radio waves coming from the spacecraft will pass through the atmosphere and ionosphere of that body on their way toward Earth. Changes in the signal characteristics during these periods will give information about the vertical structure of the atmosphere, ionosphere, clouds, turbulence, and possibly, weather.

As Voyager 1's microwave signals pass through the rings of Saturn in 1980, the nature of the rings will be investigated. Rock particles would affect the signal differently than would water or ammonia ices. Various sizes of particles will also be evident and scattering of the radio waves will provide a measure of the total amount of material (and of what sizes) in the rings.

Occultation measurements will be made at Jupiter, Saturn and its rings, the Saturnian satellite Titan, and possibly Uranus (by Voyager 2 in 1986).

Voyager 1's radio waves will pass by Jupiter's equatorial region, while Voyager 2's rays will pass near the south polar region. As the radio signals pass through the planet's atmosphere, profiles of the relative temperature and pressure of the gases at various distances from the surface will be compiled. This and other data can be used to determine the amounts of the various elements in the atmosphere as compared to each other (the abundance ratios).

Except for the first months of their journeys, the two spacecraft appear close together in the sky as seen from Earth by the Deep Space Network's antennas. When the Earth moves to the opposite side of the Sun from the spacecraft (superior conjunction), as will happen several times during the mission, it will be possible to see changes in the radio signals as they pass near the solar corona regions on their way to Earth. In the fall of 1979, a unique alignment of Earth, the Sun, and the Voyager, Pioneer, and Helios spacecraft will allow an intensive study of the Sun's properties because the ray paths from each spacecraft will probe a different region of the solar corona, making possible nearly simultaneous measurements.

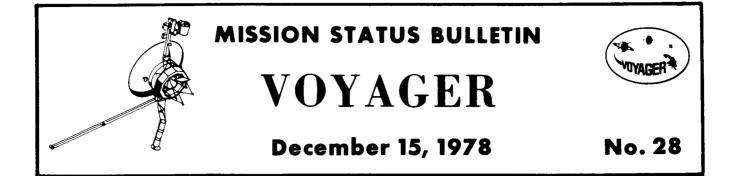
Instrumentation

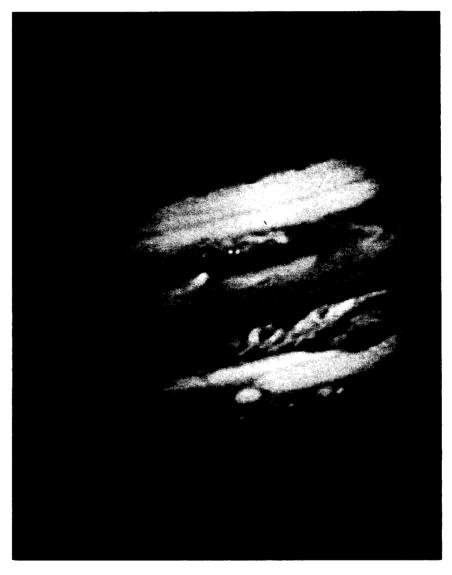
Voyager's radio equipment includes several improvements over previous planetary missions, both for engineering and scientific purposes. These include coherent, high-power 3.5- and 13-centimeter wavelength amplifiers, increased antenna size [the 3.66-meter (12-foot) diameter antenna dish is the largest of its type ever flown], an ultra-stable oscillator, improved phase and group delay stabilities in the spacecraft transponder, and an attitude control thruster design which reduces spacecraft accelerations along the Earthspacecraft line-of-sight.

The radio science instrumentation uses a new onboard stabilized frequency reference, known as the ultrastable oscillator (USO). Compared to previous spacecraft radio systems, the USO makes Voyager less sensitive to thermal and electrical changes, as well as to radiation effects. The USO is designed to give maximum frequency stability for periods from 1 second to 10 minutes.

Investigators

V.R. Eshleman of Stanford University (California) is the radio science team leader. Team members include G.L. Tyler (Stanford), T.A. Croft (Stanford Research Institute, Menlo Park, California), and J.D. Anderson, G.F. Lindal, G.S. Levy, and G.E. Wood (JPL).





DYNAMIC JUPITER – Revealing more detail than the very best groundbased telescopic photographs, this Voyager 1 image of Jupiter, taken December 10 from 83 million kilometers (52 million miles) shows the Great Red Spot (lower right) surrounded by a colorful and turbulent atmosphere. The entire visible surface of Jupiter is made up of multiple layers of clouds, composed primarily of ammonia ice crystals colored by small amounts of materials of unknown composition. Near the center is a bright convective cloud and an associated plume which has been swept westward (to the left) by local currents in the planet's equatorial wind system. This same atmospheric feature was seen prominently in the Pioneer 10 and 11 spacecraft pictures of Jupiter taken four and five years ago this month. Below and to the left of the Great Red Spot is a white oval cloud, one of three which formed nearly 40 years ago in the south temperate region. This picture was taken with a slow-scan TV camera equipped with a 1500 millimeter focal-length telescope. The color image was recreated from three TV frames, each taken through a different filter – green, orange and blue.



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The Voyager Spacecraft

(This is the tenth in a planned series of brief explanatory notes on the spacecraft and its subsystems.)

Part 10 – Plasma Investigation

Deep space has long been characterized as a cold, dark void. In truth, it is none of these. It is filled with planets, stars, dust, and clouds of low density, high-speed, ionized gases called plasma, which originates from both the Sun and other stars.

Travelling at supersonic speeds (averaging 400 kilometers or 250 miles per second), plasma streams from the Sun in all directions, forming the solar wind. When the solar wind interacts with the earth's magnetic field, many interesting phenomena result, such as the northern lights and large geomagnetic storms. Similar effects have been observed at other planets.

Voyager's plasma experiment, one of the array of fields and particles investigations, will measure plasma properties including velocity, density, and temperature for a wide range of flow directions in both the solar wind and magnetospheres.

Interstellar Ions, Solar Winds and Donuts

As are all of Voyager's fields and particles instruments, the plasma experiment (PLS) is designed to explore a range of environments – interplanetary space, planetary systems, and interstellar space.

During interplanetary cruise, the principal scientific objective is to study the properties and radial evolution of the solar plasma. A complete description of plasma properties in this region requires detailed information not only about the speeds and directions of plasma ions and electrons but also about the direction and strength of the magnetic field. For this reason, PLS data reduction is being carried on as a joint effort by the plasma and magnetometer investigators. Analysis of cruise data is now proceeding routinely; data from Voyager 1 has been processed from launch to about 4.5 AU and data from Voyager 2 to about 4.2 AU.



A wide, donut-shaped ring of hydrogen partially encircles Jupiter, while thinner rings of hydrogen and sodium trail the path of Io in this artist's conception.

A secondary cruise objective is to search for ions formed from the neutral interstellar gas. This gas is ionized by ultraviolet light from the Sun and by charge exchange with ions of the solar wind. Initially, at least, ions formed from the interstellar gas have different properties than ions of the solar wind: interstellar ions travel in different directions and are expected to have a different energy distribution. It is hoped that tracking of these two factors will allow a separation of ions from the two sources.

At Jupiter, the PLS experiment team will study the interaction of the solar wind with Jupiter; the sources, properties, form, and structure of the Jovian magnetospheric plasma; and the interaction of the magnetospheric plasma with Jupiter's Galilean satellites.

The second satellite from the planet, Io, is known to be a source of neutral hydrogen, potassium, and sodium atoms which form an incomplete donut-shaped ring (torus) close to the orbit of Io. In addition, there is an ionized cloud of sulfur associated with Io which has been observed by ground-based telescopes. Although the PLS cannot observe the neutral atoms in these clouds directly, the neutral gas is eventually ionized and becomes part of the Jovian magnetospheric plasma. The PLS has been designed to detect ionized sodium and sulfur close to the orbit of Io.

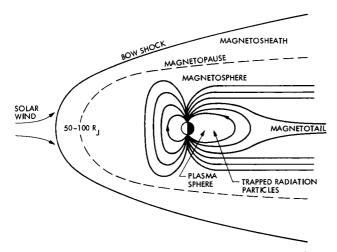
It is possible that Ganymede, the fourth satellite from the planet, may also have a ring of neutral particles which serve as a source for ions in the Jovian magnetosphere. If that is the case, the PLS should detect some of these ions when the spacecraft is close to the orbit of Ganymede (closest Ganymede approach will be from about 120,000 kilometers).

At Saturn, particular attention will be given to the interaction of plasma with the planet and its satellites, especially Titan. It is not yet clear if Titan's orbit is within Saturn's magnetosphere plasma envelope, or outside leaving its "wake" in the solar wind plasma instead. Voyager 1's flight path will allow exploration of either case.

Solar Wind - Magnetosphere Interactions

Jupiter's magnetosphere is enormous, extending into space a distance of about 100 times the planetary radius (100 R_I). As Jupiter's radius is about 71,400 million kilometers (44,000 million miles), this places the outer edge at about 7 million kilometers from the center of the planet. These distances are typical for a "quiet" magnetosphere. On two occasions, however, the magnetopause has been found at 50 R₁, and it is likely that this compression is caused by an increase in the pressure of the solar wind. During the encounter of Voyager 1 with Jupiter, the pressure of the solar wind at Jupiter and the size of the Jovian magnetosphere can be predicted from data returned by Voyager 2. In this way, comparison of PLS data from both spacecraft during the first Jupiter encounter will show unambiguously how the Jovian magnetosphere responds to changes in the incoming solar wind.

Voyager's first contact with Jupiter's magnetosphere will be signalled by the crossing of the bow shock, the line of demarkation between the undisturbed solar wind and the Jovian environment. Voyager 1 is expected to cross the bow shock about February 26, 1979, nearly a week before closest approach.



Jupiter's magnetosphere is expected to be similar to Earth's

Immediately behind the bow shock is a transition region called the magnetosheath which separates the solar wind and the magnetosphere. The inner boundary of the magnetosheath, the magnetopause, is the surface which separates the modified solar wind plasma in the Jovian magnetosheath from the plasma of the Jovian magnetosphere proper. Coming directly from the solar wind, the magnetosheath plasma is slowed down and heated by passage through the bow shock. Plasma in the magnetosphere, however, comes from several sources: the ionosphere of Jupiter, ions from satellite surfaces and atmospheres, and the solar wind.

Planetary magnetic field lines physically connect the upper atmosphere of the planet with the solar wind. The Jovian ionosphere is thought to be a source of plasma which travels along these field lines, sometimes being trapped by the planetary magnetic field and sometimes managing to escape directly into the solar wind.

Other probable sources of magnetospheric plasma are the neutral hydrogen, sodium, and potassium atoms, and the ionized sulfur observed near Io; ions from the solar wind, and finally ions from the interstellar gas.

In the inner magnetosphere, plasma trapped by the magnetic field is forced to rotate with the planet. This region of corotation may extend as far as the magnetopause, and the further from the planet, the more the centrifugal forces cause stretching of the magnetic field lines, more or less parallel to Jupiter's equator.

The stretched field lines give rise to a thin disk in which the trapped particles are confined, forming an intense, thin sheet of current flowing around the planet.

At Earth, the solar wind streams around the planet and forms a drawn-out magnetotail on the far side of the planet. A similar tail probably exists at Jupiter as well, and Voyager will make preliminary measurements in this region.

The plasma within the magnetosphere is far from quiet: the solar wind introduces disturbances such as solar flare events; satellites moving within the magnetosphere leave "wakes" similar to ships in the ocean; instabilities build. Global instabilities of the plasma, called magnetospheric substorms, cause auroral displays at Earth as the upper atmosphere interacts with the substorm. Because of the size of Jupiter's magnetosphere, the typical time scale for the development of plasma instabilities should be on the order of days, not hours, as at Earth, thus allowing more detailed study by the Voyagers as they traverse the area.

Instrumentation

The PLS uses two detector systems; one points at Earth while the other points at right angles to the Earth-spacecraft line.

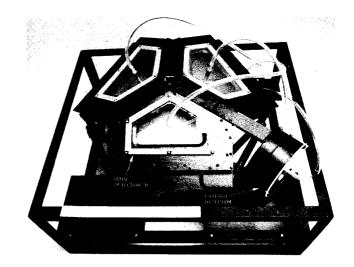
Both detector systems use Faraday cups, named after the 19th-century English physicist and chemist who studied the relationships between visible light and the electromagnetic spectrum. A conventional Faraday cup consists of a collector, several grids, and one or more apertures which define the field-of-view.

The Earth-pointed detector measures positive ions in the range from 10 to 5950 volts, and covers a broad range of possible plasma speeds from subsonic to supersonic flows. Simultaneous measurement of solar wind properties and search for interstellar ions is possible.

The Earth-pointed detector uses three Faraday cups which form three faces of a shallow tetrahedron. In this configuration, each cup views a common region of space in a different direction. This feature of the detector is new, allowing for the first time a full three-dimensional analysis of the velocity distribution function of the plasma ions. In addition, each cup views a different section of space, giving full-sky coverage when combined with spacecraft turns. This detector measures the solar wind plasma during cruise and the Jovian plasma when Voyager encounters the giant planet.

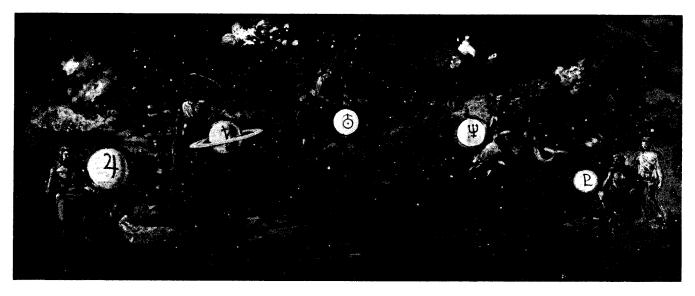
The second detector uses one conventional Faraday cup pointed perpendicularly to the Earth-pointed system and views 1/12 of the full sky. It measures both positive ions and electrons from 10 to 5950 electron volts. As the spacecraft turns, this detector will scan the sky from pole to pole.

Mounted on the science boom, the instrument weighs about 9.9 kilograms (21 pounds) and draws about 8 watts of power.



Investigating Team

H. S. Bridge of the Massachusetts Institute of Technology is the plasma experiment principal investigator. Co-investigators are J. W. Belcher, A. J. Lazarus, S. Olbert, and J. D. Sullivan (MIT); L. F. Burlaga, R. E. Hartle, and K. W. Ogilvie (Goddard Space Flight Center); A. J. Hundhausen (High Altitude Observatory, Unviersity of Colorado); C. M. Yeates (JPL); V. M. Vasyliunas (Max-Planck-Institut für Aeronomie, Katlenburg-Lindau, West Germany); and G. L. Siscoe (University of California at Los Angeles). The instrument was built at MIT by an engineering team headed by R. Butler.



OUTER PLANETS — The ancient gods await man as classical mythology and planetology mix in this rendering executed for the National Air and Space Museum. Jupiter, largest planet in our solar system, is named in honor of the chief god, known as Zeus to the Greeks. A sky god, his weapons are thunder and lightning. The father of Jupiter is Saturn (Cronus), leader of the elder gods, the Titans. Uranus ("Heaven") was an early Greek god, while Neptune (Poseidon), god of the sea, is a stormy brother of Jupiter. Finally, another Jovian brother, Pluto, ruled the underworld and the afterlife.

Update

Voyager 1

In these last weeks of Voyager 1's cruise phase, mission operations have been a whirlwind of activity, interleaving crucial calibrations and tests with reviews assessing project readiness.

On December 10-11, a 20-hour sequence of two rotations of the giant planet returned exciting images which will be used in selecting interesting features to be further explored during Encounter.

A target maneuver was cancelled on December 5 when a timing offset between the two processors of the on-board computer command subsystem was noticed. The 48-second difference between the two would have resulted in an aborted maneuver. Periodic target maneuvers have been executed on both spacecraft and the possibilities of rescheduling this maneuver are being explored.

One of four apertures in the photopolarimeter instrument was tested on December 6. The instrument's aperture wheel was turned to the 0.25 degree diameter aperture to test its field-of-view.

Just prior to the Near Encounter Test (December 12-14), the sun sensors/high gain antenna, scan platform pointing, and imaging optics were calibrated on December 11.

A review of the test and training activities, including the Near Encounter Test, essentially a dry-run of the activity planned and programmed for the 39 hours around closest approach to Jupiter on March 5, is scheduled for December 15.

Two weeks of relative quiet will follow, and then Voyager 1's Observatory phase will begin on January 4, 1979.

Voyager 2

The second spacecraft has been enjoying a quiet month with little activity other than periodic instrument calibrations.

Voyager in the Smithsonian

A museum piece at a tender age, Voyager holds a prominent position in the new "Exploring the Planets" gallery at the Smithsonian Institution's National Air and Space Museum, Washington, D.C.

The exhibit, which opened this fall, takes visitors on a tour of the solar system and imparts some of the knowledge scientists have acquired in exploring the planets via space missions and observations from Earth.

The largest single object in the gallery is a full-scale replica of a Voyager spacecraft, suspended from the ceiling and with all booms and antennas fully extended, including the 43-foot magnetometer boom!

Below the spacecraft, a television screen currently shows an animated film about the project, and will carry the latest information from the planet as Voyager closes in.

Other special exhibits in the gallery include a flight over Mars, a descent to Venus, relative sizes of planetary bodies (from a 10-foot diameter Jupiter to a 1-foot diameter Earth to a 1-inch diameter Ceres, the largest asteroid), computer terminal games, comparative planetology, planetary weather reports, and "Unanswered Questions" – some of which Voyager hopes to answer.

Summary

Eighty days and 78 million kilometers (49 million miles) lie between Voyager 1 and its first objective, Jupiter. While it is currently travelling at a heliocentric velocity of 14 kilometers per second, one-way communication time with the ship is 33 minutes 51 seconds, 609 million kilometers (378 million miles) from Earth.

Voyager 2 has 146 million kilometers (91 million miles) to travel in the next seven months before meeting the giant planet. One-way light time is 31 minutes 10 seconds, while its heliocentric velocity is 12.6 kilometers per second.



MISSION STATUS REPORT NO. 29 JANUARY 4, 1979

Mission Highlights

Voyager 1 Jupiter Observatory Phase Begins

Sixty days and sixty million kilometers from Jupiter, Voyager 1 begins its Jupiter observatory phase on January 4. The events of the next twenty-six days are designed to provide a time history of scientifically important phenomena on Jupiter.

Most of the observations in this phase are repetitive, to provide a data base for all ensuing data. Significant calibration sequences occur between January 4 and 6 to prepare for the Jovian encounter.

On January 6, the imaging cameras will begin to record a series of four, single narrow-angle images, each in a different color. Taken every two hours (every 72 degrees of Jupiter rotation), the series is part of a long duration study of large-scale atmospheric processes. These images will be examined to determine the most dynamic features on Jupiter and to allow retargeting to them during the near encounter period.

Daily "system scans" by the other optical instruments will provide a large-scale look at the entire Jovian system. The ultraviolet spectrometer (UVS) will raster the system eight times each day for two hours, looking for the distribution of ultraviolet emissions. The infrared interferometer spectrometer (IRIS) will collect about 100 infrared spectra of Jupiter in a 1½-hour period once a day, sampling different longitudes.

The photopolarimeter (PPS) scans will search for the edge of Io's sodium cloud, expected to extend as far as 60 Jupiter radii (R_J) (4.3 million kilometers or 2.7 million miles) from Jupiter, nearly 10 times farther than Io's orbital radius.

In addition, the system scans include a search for the bow shock, the intersection of the solar wind plasma and the planetary magnetosphere.

The planetary radio astronomy/plasma wave duo will search for Jupiter radio bursts and perturbations of the plasma once a day. All of the fields and particles instruments will begin an accelerated level of daily measurements to characterize the beginning of Jupiter's influence in the sea of solar wind particles that dominates most of the space in the solar system.

The daily accumulations of data will fill nearly eight tracks a day on the on-board digital tape recorder that consists of one 8-track magnetic tape about 328 meters

(1076 feet) long. The tape will be played back to Earth daily, taking approximately three hours each time.

Only the 64-meter (210-foot) antennas of the Deep Space Network have the capability to receive the daily playbacks. Seven and one-half hours of daily coverage will be provided by the 64-meter antenna at Madrid, Spain, since this station will be in view of the spacecraft during prime shift working hours (at JPL) throughout the observatory phase. The DSN's 26- and 34-meter antennas will monitor the ship during the remaining 16.5 hours each day.

Astronomy Notes

On January 4, Earth reaches perihelion, its closest approach to the Sun during the year. On this day, Earth will be 147 million kilometers (91 million miles) from the Sun.

Jupiter reaches opposition on January 24, when it will be directly opposite the Sun from the Earth. Throughout January, Jupiter will be exceptionally bright and visible all night. Currently in the constellation Cancer, Jupiter will be north and east of the bright star Sirius this month.

The Voyager Spacecraft

(This is the eleventh in a planned series of brief explanatory notes on the spacecraft and its subsystems.)

Part 11 - Photopolarimeter Experiment (PPS)

By studying sunlight scattered by the atmospheres and surfaces of the planets and satellites, Voyager's photopolarimeter experiment will unveil many secrets of the outer planets.

Eight wavelengths in the ultraviolet and visible regions of the spectrum (from 2350 to 7500 Angstroms) will be measured in intensity (brightness) to determine the physical properties of the atmospheres of Jupiter and Saturn (perhaps seeing evidence of lightning and auroral activity), the rings of Saturn, the satellite surfaces, and the sodium cloud around Io.

Scientific Objectives

The photopolarimeter will examine both the largeand micro-scale structure and properties of the clouds of Jupiter, Saturn, and the Saturnian satellite Titan. It will



National Aeronautics and Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California Similar studies will define the structures of major planetary features such as Jupiter's Great Red Spot, zones, and belts. The photopolarimeter will search for evidence of crystalline particles in these features, and will gather data on the effects of scattering and absorption of sunlight by these particles, and the resulting effect on thermal balance. From these data, additional model calculations will be made, providing insight into domains impenetrable by Voyager's complement of remote sensing instruments.

The atmospheres will be compared to two already well-known samples – the thick, hazy, warm atmosphere of Venus, and the more familiar atmosphere of Earth.

At the satellites of the outer planets, the photopolarimeter will probe the density of the atmospheres (where they exist), the texture and possible compositional variations (on a large scale) of the surfaces, the bulk reflectivity, and the sodium vapor cloud around Jupiter's Io.

The spectral reflectivity of a body can aid in determining its surface composition, be it bare rock, dust, frost deposits, ice, or meteor remains.

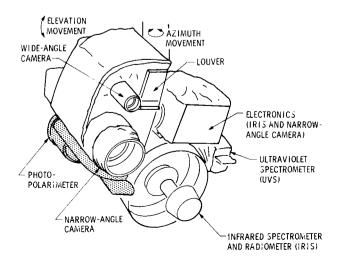
Io's Encircling Cloud

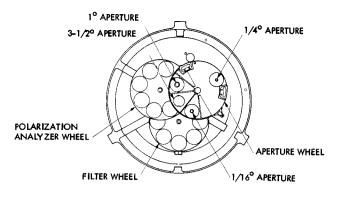
The first suggestion that gases escaping from the satellite atmospheres might be unable to escape from the planetary gravity fields and would thus form doughnut-shaped rings (toruses) around the planet, was made in 1973. Since then, it has been confirmed that such a toroid does indeed exist in the vicinity of Jupiter's satellite Io, and that it is composed primarily of sodium and atomic hydrogen. It extends from about three times the radius of Jupiter $(3 R_J)$ to beyond 10 times the radius $(10 R_J)$. Io, and perhaps Amalthea and Europa, orbit within this cloud, and Voyager will search for it during the far encounter phase as it sails closer to the giant planet.

Io seems to be covered by evaporite salts, including atomic hydrogen, sodium, potassium, and sulfur, and possibly atomic magnesium, calcium, and silicon. These are sputtered off from Io's salt-covered surface into its atmosphere by charged atomic particles (ions) which are trapped in Jupiter's strong magnetic field.

Ring Puzzles

Finally, the photopolarimeter will probe the rings of Saturn, including the size and shape, and allow inferences on the probable composition of the ring particles, their density, and radial distribution. The dynamics of the rings





will also be probed: Why are there several distinct rings, which do not appear to merge? Is there an atmosphere between the rings? What are the lifetimes of particles in the rings? How does the gravitational field of Saturn hold these rings in orbit?

Instrumentation

Mounted on the scan platform, Voyager's photopolarimeter is a combination photometer/polarimeter with filters. Light is gathered through a 6-inch-diameter Cassegrain telescope and passed through an aperture, a polarization analyzer, a filter, and a depolarizer before being converted into electrical pulses which indicate the number of photons (a measurable unit of light) in a particular energy band (color or wavelength), and polarization.

The apertures, analyzers, and filters are all mounted on separate wheels which turn independently of each other and so provide a great number of combinations. Normal operation during Encounter would consist of stepping through a programmed sequence of 40 filter/analyzer wheel combinations every 24 seconds.

There are four apertures providing 1/16, 1/4, 1, and 3-1/2-degree diameter circular fields of view. Eight positions on the analyzer wheel provide open, dark, a calibration source, and five Polacoat analyzers with their transmitting axes located at 0, 60, 120, 45, and 135 degrees. rotation. Eight filters measure wavelengths from 2350 through 7500 Angstroms, each corresponding to the spectral features of specific elements or compounds (for example, sodium D, hydrogen, helium, calcium, magnesium, silicon, and potassium atoms, ozone, and hydroxyl radicals). Some filters measure scattering and methane absorption.

Instrument Status

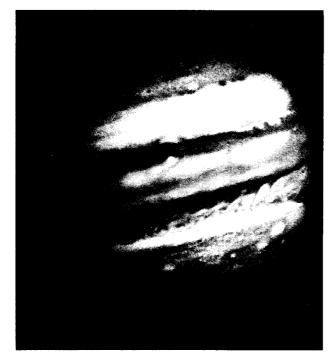
Voyager 1's analyzer wheel has been sticking periodically throughout cruise, and efforts to regain completely normal operation have been stymied. Laboratory tests on the flight spare instrument indicate that a similar problem may occur with the filter wheel. During Jupiter Encounter, therefore, the analyzer wheel will be in the clear position only and the filter wheel will be allowed to step for only 50 hours during the near encounter period. The polarization data will be lost.

Investigators

Sharing the role of principal investigator are C. F. Lillie (cruise) and C. W. Hord (Encounter), both of the University of Colorado. Co-investigators are D. L. Coffeen and J. E. Hanson (Goddard Institute for Space Studies, New York), and K. Pang (Science Applications, Inc.).



MISSION STATUS REPORT NO. 30 JANUARY 11, 1979



ENCOUNTER MINUS 58 DAYS – Voyager 1 took this picture of the planet Jupiter on January 6, the first in its three-monthlong, close-up investigation of the largest planet. The spacecraft, flying toward a March 5 closest approach, was 57.6 million kilometers (35.8 million miles) from Jupiter and 598.2 million kilometers (371.7 million miles) from Earth. As the Voyager cameras begin their meteorological surveillance of Jupiter, they reveal a dynamic atmosphere with more convective structure than had previously been thought. While the smallest atmospheric features seen in this picture are still as large as 1,000 kilometers (600 miles) across, Voyager will be able to detect individual storm systems as small as 5 kilometers (3 miles) at closest approach. The Great Red Spot can be seen near the limb at the far right. Most of the other features are too small to be seen in terrestrial telescopes.

Summary

Voyager 1, 52.9 million kilometers (32.8 million miles) from Jupiter, has settled into its daily routine of imaging observations, system scans, infrared samplings, and playbacks. One-way light time is 33 minutes 18 seconds.

Voyager 2 is cruising quietly, with several routine calibrations scheduled for the next week. At 127.4 million kilometers (79.2 million miles) from Jupiter, one-way light time to Earth is 30 minutes 2 seconds.

The Voyager Spacecraft

(This is the twelfth in a planned series of brief explanatory notes on the spacecraft and its subsystems.)

Part 12 – Infrared Interferometer Spectrometer and Radiometer (IRIS)

Jupiter, with its colorful and distinctive bands of clouds, has puzzled man for many centuries. Why are the bands, known as zones (light) and belts (dark), so welldefined? What determines their colors? How deep is the cloud cover? What lies beneath it? Does Jupiter have a solid surface at all?

Voyager's experiment with the most tongue-twisting name, the infrared interferometer spectrometer and radiometer – usually known simply as IRIS – is designed to probe the atmosphere of the Giant Planet for answers to some of these questions. Jupiter's satellites and the Saturanian and Uranian systems will be explored as well.

Each distinct chemical compound has a unique spectrum. As a result, by measuring the infrared and visible radiation both given off (emitted) and reflected from an object, a great deal can be learned about atmospheric gas composition, abundances, clouds, hazes, temperatures, dynamics, and heat balance.

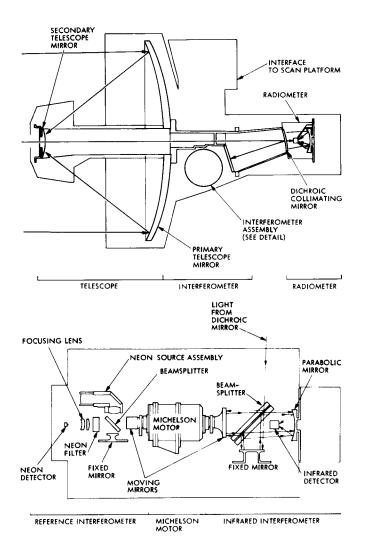
Scientific Objectives

Hydrogen, deuterium, helium, methane, ammonia, ethane, and acetylene have been identified in the Jovian atmosphere above the upper cloud deck. Deeper measurements (through holes in the clouds) indicate the presence of carbon monoxide, water, deuterated methane, germane and phosphene as well. Many of these constituents are also (contd)



Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California



The Voyager Spacecraft – IRIS (contd)

present on Saturn. Titan, one of the satellites of Saturn, is also known to have a substantial atmosphere. Voyager's IRIS will measure the atmospheric composition and structure on all of these bodies. Once the composition of an atmosphere is determined, knowledge of its absorption properties can be used to measure temperatures at various depths as a function of pressure. The clouds appear to form well-defined layers in the atmosphere, and above these are tenuous hazes. The ease with which these structures absorb or emit infrared radiation and light will permit a determination of cloud depth, as well as state (ice or aerosol).

Jupiter's banding has been observed for centuries. Why has it persisted for so long? Most theories explain the bands as the result of convection — circulation of warm and cool air. Jupiter appears to have an internal heat source, and a relation appears to exist between cloud color and temperature in both the zones and belts. Although Jupiter's banding runs east and west, considerable north-south motions of the atmosphere also exist and will be probed.

Many ices and minerals have distinctive spectral characteristics. Using these signatures, composition and temperature maps of the satellites will be constructed. Together with images also obtained by Voyager, these can be used to investigate the geology and evolution of these bodies. Comparisons among the satellites will be made; it is already known, for example, that the more dense Jovian satellites are closer to the planet, while the less dense are farther out. Such variations of satellite properties with distance from Jupiter may lead to further understanding of the formation of each, and possibly of the planet itself. Perhaps more than the large Galilean satellites, tiny Amalthea, closest to the parent planet, may provide insight into its own origin, since it is too small to have undergone extensive internal changes, such as the melting that has resulted in the earth's molten core.

Instrumentation

IRIS will measure the intensity and spectral distribution of infrared radiation reflected and emitted by atmospheres and surfaces. Light is gathered by a 50-centimeter (20-inch) diameter telescope and directed into the optics of the instrument. Within the optics assembly, the light strikes a mirror which reflects wavelengths longer than 2.5 microns into the interferometer and transmits those shorter than 2.0 microns into the radiometer. This mirror is called a dichroic collimator; that is, it separates the lightwave into various wavelengths (colors) and reflects these as parallel rays.

The radiometer responds to solar radiation in the spectral range from 0.3 to 2 microns; that is, from the ultraviolet through the visible spectrum and into the near infrared.

The interferometer assembly actually contains two interferometers: a reference instrument having an internal source of neon light, and the infrared instrument itself, which responds to radiation in the range of 2.5 to 50 microns (the mid- to far infrared).

The infrared light reflected into the interferometer assembly by the dichroic collimator is further split into two beams; one of these is focussed on a fixed mirror, while the other is focussed on a moving mirror. The beams are reflected from these mirrors and recombined so that they interfere with each other, and the resulting intensity is measured. If the moving mirror is in a position so that the recombined beams are out of step, then this intensity is zero; if the mirror position is such that the recombined beams are in step, then the intensity is large. The variations of this intensity as the position of the moving mirror changes represent the interferogram, which is the output of the instrument.

To help prepare the interferogram for radio transmission, the reference interferometer is used. One mirror in this interferometer moves with the moving mirror of the infrared interferometer. In the same way that the infrared radiation is handled in the infrared interferometer, the light from a single red neon line is passed through the reference interferometer to provide a regularly varying (sinusoidal) signal; the instants at which this crosses zero are used to control the motion of the mirrors and to determine when the light intensity in the infrared interferometer is measured. The resulting series of pulses is sent to Earth, where it is processed by computer to provide the infrared spectrum.

Mounted on the scan platform, the IRIS assembly weighs about 18 kilograms (40 pounds), including the telescope, radiometer, interferometers, electronics, and power supply. It uses about 14 watts of power of which 8 watts are used for temperature control. The instrument was designed and fabricated by Texas Instruments, Inc., Dallas, Texas.

Investigators

R. A. Hanel, of NASA's Goddard Space Flight Center (GSFC), Greenbelt, Maryland, is the principal investigator for the IRIS. Co-investigators are B. Conrath, V. Kunde, P. Lowman, W. Maguire, J. Pearl, J. Pirraglia, and R. Samuelson (all from GSFC), S. Kumar (JPL), C. Ponnamperuma (University of Maryland), D. Gautier (Paris Observatory, France), and P. Gierasch (Cornell University, Ithaca, New York).



MISSION STATUS REPORT NO. 31 JANUARY 19, 1979

Mission Highlights

Detail Increases

As Voyager 1 draws nearer the giant planet, the cameras are showing increasing detail. The circulation patterns, especially around the Great Red Spot, are becoming more discernible. Much attention will be focussed on the Red Spot itself to determine its wave pattern — is the center swirling while the edges are quiet, or is the center quiet while the edges flow? Now known to be purely an atmospheric feature, the Red Spot was once thought to be anchored to a surface feature, which would have explained its longevity. Its size has decreased in recent years.

Increasing detail in the belts (dark bands) and zones (light bands) also shows interesting features. The zones are thought to be rising, while the belts are descending. At their interfaces, wind shears result, accounting for the turbulent features observed in these areas.

"Hot spots" can be seen below the Red Spot, to the left and right. Specific spacecraft sequences will target to these and other interesting features.

Voyager 1 Activities

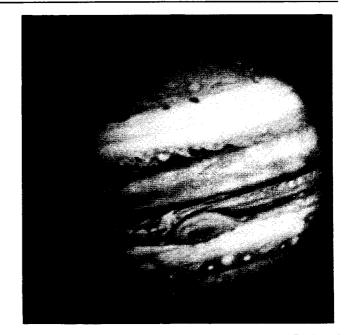
The daily system scans, infrared mapping, ultraviolet searches, and imaging sequences of the observatory phase will continue next week. "Tweaking" of the scan platform pointing is planned to "fine tune" the centering of the planet in the instruments' fields of view.

The IRIS is operating well after its warming sequence in late December.

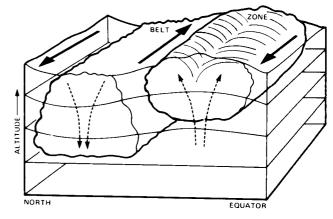
Voyager 2

The trailing spacecraft remains relatively quiet, with routine tests and calibrations at cruise level. The IRIS has undergone a heating period to maintain good performance in the interferometer's Michelson motor.

Another test of a link between the Stanford radio telescope and the planetary radio astronomy antennas is planned for the near future in further analysis of the PRA's capability should Voyager 2's remaining radio receiver fail.



WIND SHEARS – An atmospheric system larger than Earth and more than 300 years old, the Great Red Spot remains a mystery and a challenge to Voyager's instruments. In this picture taken by Voyager 1 on January 9 through a blue filter, swirling, storm-like features possibly associated with wind shear can be seen both to the left and above the Red Spot. Analysis of motions of the features will lead to a better understanding of Jovian weather. The spacecraft was 54 million kilometers (34 million miles) from the planet at this point.



CIRCULATION – Current models of Jupiter's atmosphere theorize rising zones and descending belts.



Space Administration Jet Propulsion Laboratory

California Institute of Technology Pasadena. California

The Voyager Spacecraft

Part 13 – Ultraviolet Spectrometer

Hydrogen, helium, and methane - hardly a mixture of which one would wish to take a deep breath. Yet these are the expected major constituents of the atmospheres at the outer planets.

Voyager's ultraviolet spectrometer (UVS) will study the composition and structure of the atmospheres of Jupiter, Saturn, possibly Uranus, and their satellites, as well as stellar sources of ultraviolet radiation.

Scientific Goals

Two rather different techniques have been developed for spectroscopically probing planetary atmospheres from the Earth or passing spacecraft (as opposed to landers or penetrators). Airglow observations require a large collecting area for maximum sensitivity to weak emissions found high in the atmospheres where collisions between the gas atoms and molecules are infrequent. Occultation measurements, on the other hand, require an instrument which can look directly at the Sun, using it as a source of ultraviolet radiation to measure absorption and scattering by the atmosphere as the spacecraft moves into the planet's or satellite's shadow.

Voyager's UVS combines these two types of spectrometers with a common detector system.

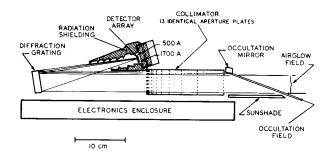
Airglow observations will measure the distribution of atomic hydrogen and helium in the upper atmosphere by recording the resonance scattering of sunlight. Resonance scattering arises by atoms or molecules absorbing solar radiation at characteristic wavelengths and re-radiating at the same wavelength. This differs from fluorescence in which the activating wavelength is absorbed and the energy is emitted at longer wavelengths.

As the Sun is occulted by the planet (blocked from the spacecraft's view), the planet's atmosphere moves slowly between the Sun and the instrument. Since all common atmospheric components have strong, readilyidentifiable absorption characteristics in these short wavelengths, Voyager's UVS will be able to learn much about the composition of the atmosphere, its temperature, and structure. The key will be not the amount of sunlight entering the atmosphere, but rather what happens to it after it enters – how it is absorbed and scattered.

Airglow measurements will be made of several of the satellites as well as of the planets. Hydrogen, potassium, and sodium have been detected in direct observations of lo's atmosphere, while the presence of sulfur has been inferred from indirect association with lo's cloud of sulfur particles. The UVS is capable of measuring distributions of minor gases and lo's atmospheric temperature, as well.

Auroral activity on Ganymede, another of Jupiter's Galilean satellites, may confirm water ice on the satellite's surface by permitting measurements of atomic oxygen.

The UVS will contribute to mapping the torus clouds around the planets and satellites, especially the hydrogen cloud around Io. The "circumference" and out-of-plane thickness of the cloud are of great interest; that is, how far does it extend above and below the plane of Io's orbit? In mid-February, the slit will be oriented both perpendicular



and parallel to the orbital plane in special spacecraft maneuvers to help measure the extent of the gas clouds around Jupiter.

The UVS will also observe Io's "flux tube", the region of interaction between Io and Jupiter's magnetic field. Spectral analysis of Jupiter's atmosphere where the flux tube contacts the planet should be revealing.

Grating Spectrometer

The UVS detects and measures ultraviolet radiation in the range from 500 to 1700 Angstroms, at 128 contiguous intervals. Included in this range are the hydrogen Lyman series molecular hydrogen, helium, methane, acetylene, ethane, and other atmospheric hydrocarbons.

Light enters the UVS instrument through an aperture which has two fields of view (FOVs). During the occultation mode, the main FOV (0.9 by 0.1 degree) for airglow measurements is shielded by the sunshade. The occultation FOV (0.9 by 0.3 degree) is also offset 20 degrees from the airglow FOV so that the instrument can be pointed at the Sun with no damage from direct sunlight to the airglow FOV and the other scan platform instruments.

After entering the aperture, the light passes through a set of 13 identical aperture plates (the mechanical collimator). (Wavelengths shorter than 1050 Angstroms cannot be transmitted by an optical collimator, but can be by the mechanical one.) The collimator restricts the field of view to the concave diffraction grating which has been ruled at 540 lines per millimeter by diamond point. The radiation is reflected from the grating and dispersed onto the ultraviolet detector where it is converted to electrical pulses indicating the number of photons (measurable units of light) at particular wavelengths in the extreme ultraviolet.

Mounted on the scan platform, the UVS weighs 4.5 kilograms (10 pounds) and was fabricated by TRW Systems, Redondo Beach, California, under contract to the designer, Kitt Peak National Observatory, Tucson, Arizona.

Investigators

A. L. Broadfoot of Kitt Peak National Observatory is the UVS principal investigator. Co-investigators are M.J.S. Belton (Kitt Peak), J. L. Bertaux and J. E. Blamont (Service d'Aeronomie du CNRS, Paris, France), S. K. Atreya and T. M. Donahue (University of Michigan), R. M. Goody and M. B. McElroy (Harvard University), A. Dalgarno (Harvard College Observatory), J. C. McConnell (York University, Ontario, Canada), H. W. Moos (Johns Hopkins University), B. R. Sandel and D. E. Shemansky (University of Arizona), and D. F. Strobel (Naval Research Laboratory, Washington, D.C.).



MISSION STATUS REPORT NO.32 JANUARY 26, 1979



JUPITER'S MOONS – Voyager 1's cameras captured two of Jupiter's moons, Ganymede and Europa, in this picture taken the morning of January 17, 1979, from a distance of 47 million kilometers (29 million miles). Despite the small images of the moons, this photo and others are beginning to show details on the satellites not seen before in Earth-based photos.

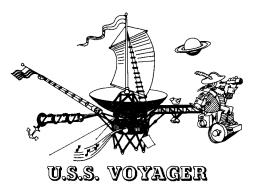
Europa, an unusually bright satellite slightly smaller than the Moon, is revealed to have a dark equatorial band. Although scientists believe Europa is rocky, its surface appears to be covered with a layer of ice or frost of undetermined thickness. Larger than the planet Mercury, Ganymede is believed to be composed of a mixture of rock and water ice with a surface of ice or frost with a scattering of darker soil. This photo shows only the darker side of Ganymede; the hidden half seen in other photos of the big satellite is marked by a large bright region.

Rapid changes in Jupiter's atmosphere are being observed – some occurring within 20 hours (two Jovian days). An example is changes in the long series of wave-like patterns trailing Jupiter's Great Red Spot (far right). The bright zone stretching across the northern hemisphere may be clouds of frozen ammonia similar to cirrus clouds of water ice in Earth's atmosphere.



Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California



Encounter Minus 38 Days and Closing

The days are ticking off rapidly as Voyager 1 closes in on its first major objective, the Jovian system. The "observatory" phase of Voyager 1's mission draws to a close January 30, with the last daily routine systems scans on January 25. These scans have provided valuable background measurements of the Jovian system which will help in later data analysis.

Using the images and data of the observatory phase, a target selection working group has identified the most interesting features to be examined for the highest science return, and computer sequences to target to these areas are being completed.

Trajectory Correction Maneuver January 29

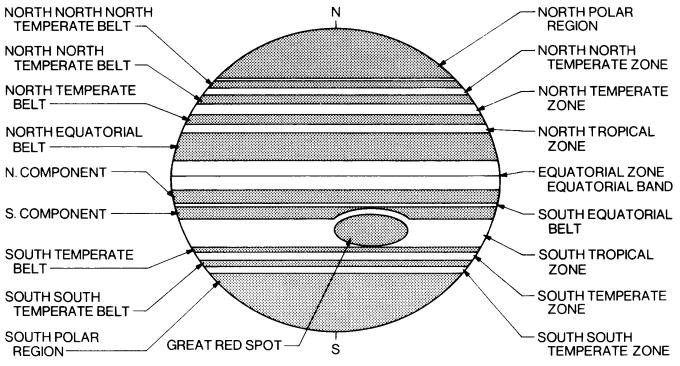
On January 29, Voyager 1 will fire its hydrazine thrusters to adjust its flight path. One more trajectory correction maneuver is scheduled for February 20 to put the spacecraft exactly on target for its audience with the giant planet in early March. While radiometric data precisely determines the position of the spacecraft in relation to Earth, optical navigation is needed to pinpoint the locations and orbital paths of the satellites. This is accomplished by pointing the camera at a specific satellite and taking a long-exposure image.

Intensive Imaging

On January 30, Voyager 1 will begin a 4-day period of intensive Jupiter imaging, returning pictures in real-time (not tape-recorded for later playback as in the observatory phase). Shuttering every 96 seconds for 100 hours, Voyager 1 will capture 10 Jovian rotations. Narrow-angle images will be taken through three different filters every three degrees of rotation to allow color reconstruction of what will essentially be a "movie" of Jupiter's rapidly changing atmosphere.

At the start of the sequence, the spacecraft will be about 34.7 million kilometers (21.6 million miles) from the planet and Jupiter's disk will fill about 480 pixels (picture elements) of the 800-pixel imaging frame. Travelling with a heliocentric velocity of about 13.2 kilometers per second (29,600 miles per hour), Voyager 1 will gain about 3.9 million kilometers (2.4 million miles) on the planet during the 4-day period of intensive imaging.

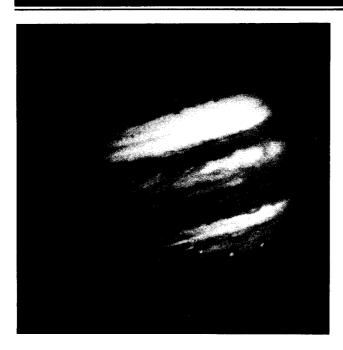
Since the imaging data will be returned in real time at the highest data rate available (115,200 bits per second) over X-band, the Deep Space Network will provide continuous 24-hour a day coverage with the 64-meter antennas (only these antennas are capable of receiving this data rate). Voyager 2 and other space probes will be covered by the five 26-meter antennas and one 34-meter antenna (Goldstone) of the Deep Space Network.



MAJOR FEATURES OF JUPITER - Ground-based and Pioneer observations of the giant planet have allowed scientists to label Jupiter's major features for reference purposes. Voyager is already rewriting the textbooks, however, as its cameras record the ever-changing atmosphere. The once-wide south tropical zone is presently considerably narrower, while the north temperate zones have spread. Voyager is also identifying smaller features, such as plumes and hot spots, and tracking their changes.



MISSION STATUS REPORT NO. 33 FEBRUARY 2, 1979



10 CASTS ITS SHADOW — As Jupiter's satellite Io (lower center) passes before the giant planet, its shadow (left) can be seen falling on the planet's face. Io is traveling from left to right in its one-and-three-quarter-day orbit around the planet. Even from this great distance the image of Io shows dark poles and a bright equatorial region. Voyager 1 was 47 million kilometers (29 million miles) from the planet when this image was taken through a blue filter on January 17, 1979.

The Voyager Spacecraft

Part 14 – Imaging

Until about 1960, photography of Jupiter was hit or miss - if some time was available at the telescope on a clear night, and if someone was inclined, they might take a picture of Jupiter. The next opportunity might not come for weeks.

But the visible disk of Jupiter is all "weather" – random photos of the planet amount to little more than taking an occasional picture of clouds somewhere on Earth and then trying to forecast the weather.

In the early 1960's, astronomers began a new routine – an observation program in which they took pictures of Jupiter every hour all night long, on every night that was good for viewing. In ten years, astronomers



National Aeronautics and Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California learned more about Jupiter than they had learned in all the preceding time.

Now, in the next eight months, NASA's two Voyagers will take tens of thousands of high-resolution photographs of the Jovian system, free of interference from the distortion caused by Earth's bubbling, boiling atmosphere.

More Than Pretty Pictures

The photos returned by Voyager thus far show a pretty tangerine-and-white-striped ball. But there's more than meets the eye, and the list of objectives is long. The Voyager imaging investigators will study:

Planetary Atmosphere

- Global circulation, including convection, vorticity and divergence
- Horizontal and vertical structure of the visible clouds and their relationship to the belted appearance and dynamical properties
- Vertical structure of high, optically thin scattering layers
- Anomalous features such as the Great Red Spot, south equatorial belt disturbances, plumes, hot spots, and white ovals
- Cloud coloration

Satellites

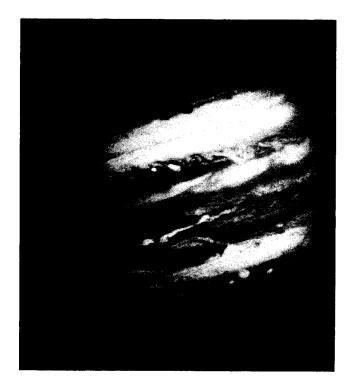
- Comparative geology of the Galilean satellites at less than 15-kilometer resolution
- Geologic structure of several satellites at high resolution (about 1 kilometer)
- Chromophores on Io
- Atmospheres
- Size and shape of the satellites by direct measurement
- Direction of the spin axes and period of rotation of the satellites; establish coordinate systems for the larger satellites

System

- Optical scattering properties of the planets and satellites at several wavelengths and phase angles
- Novel physical phenomena such as the "flux tube," meteors ("fireballs"), lightning, auroras, or satellite shadows.

(contd)

Encounter Minus 31 Days



RED SPOT VORTICITY - The Great Red Spot shows prominently (below center), surrounded by a remarkable complex region of the giant planet's atmosphere. An elongated yellow cloud within the Great Red Spot is swirling around the spot's interior boundary in a counterclockwise direction with a period of a little less than six days, confirming the whirlpool-like circulation that astronomers have suspected from ground-based photographs. Ganymede, Jupiter's largest satellite, can be seen to the lower left of the planet. Ganymede is larger than Mercury. This black and white image was taken through a blue filter on January 24, 1979 while Voyager was 40 million kilometers (25 million miles) from Jupiter.

How Do They Do That?

Each spacecraft carries a 200-mm, f/3.5 wide-angle camera and a 1500-mm, f/8.5 narrow-angle (telephoto) camera that can be shuttered singly, alternately, or simultaneously at exposure times from 0.005 to 15.36 seconds, or even longer in special modes.

Each camera assembly includes an eight-position filter wheel, including clear (2), violet, blue, orange, green (2), and ultraviolet for the narrow-angle, and blue, clear, violet, sodium D, green, orange, and two wavelengths of methane for the wide-angle. The sensitivity of the filters ranges from 3450 (ultraviolet) to 6200 Angstroms (visible orange). Visible light encompasses the range from about 3800 to 6800 Angstroms.

Color reconstruction is done by combining images taken through different filters; for example, blue, green and orange. Certain features, such as the Great Red Spot, are more prominent and show more contrast in some filters (blue, for example), than in others (orange) due to the reflectivity.

The cameras are slow-scan vidicon designs that use a one-inch selenium-sulfur vidicon to convert the optical image into electrical signals. The subject is scanned one line at a time, and each fragment of light registered (called a picture element or "pixel") is converted into electrical signals for transmission to Earth. After acquisition by the Deep Space Network, the signals are processed, manipulated by a computer system to adjust for the planet's rotation between shuttering, and reconstructed with a laser system on standard photographic film.

The frame area is 800 scan lines by 800 pixels, or 640,000 pixels. Depending on the spacecraft data rate, the readout time for each frame is 48 seconds (at 115.2 kilobits) to 480 seconds (at 21.6 kilobits). The frames may be edited to a slower data rate if necessary (for example, if high winds or rain precluded use of a 64-meter antenna to receive the 115.2 kbps data). The pictures are read out and appear on the monitors one line at a time.

Twenty days before closest approach, about mid-February, the disk of Jupiter will exceed the 0.4-degree field of view of the narrow-angle camera, and the 3.2-degree field of view of the wide-angle camera will be required to continue full-disk imaging.

Mosaics of the Jovian system will be sequenced, mapping the planet, the satellites, and features of interest such as the Great Red Spot, white ovals, and hot spots.

The surface resolution criterion for maps of the satellites is the same as for the Earth-orbiting satellite Landsat (1:5,000,000 is the largest acceptable scale). Reference maps at a scale of at least 1:25,000,000 will be produced for Io, Europa, Ganymede, and Callisto, with high resolution maps of Io and Ganymede at 1:1,000,000 scale. (In comparison, U.S. Geological Survey 15-minute topographical maps are at a scale of 1:62,500 and one inch equals nearly one mile.) The highest resolution near each encounter will be 1 kilometer or less.

Mounted on the scan platform, the imaging system weighs about 38.2 kilograms (84 pounds). The vidicons were produced by General Electrodynamics Corporation, Dallas, Texas, while Xerox Corporation, Electro-Optical Systems, Pasadena, California, assembled the imaging electronics.

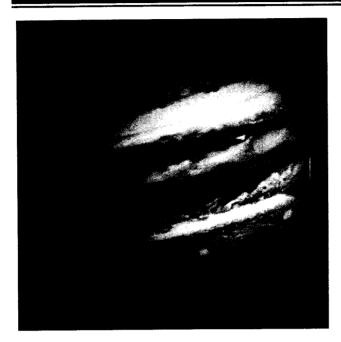
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MISSION STATUS REPORT NO. 34 FEBRUARY 9, 1979



HIGH-SPEED JET STREAM – This photo of Jupiter taken January 27, 1979, by Voyager 1 shows a thin brown band in the light zone north of the Great Red Spot (extreme right), thought to be the location of a high-speed jet stream similar to Earth's jet stream. The spacecraft was 37.5 million kilometers (23.3 million miles) from the planet at the time of this photo. Voyager 1 will take more than 15,000 pictures of Jupiter and its major satellites by the time it has completed its three-month encounter with the giant planet.

2 x 2 Mosaics Begin

Marked by the end of 100 hours of intensive imaging and the beginning of planetary mosaics, Voyager 1 moved into the next phase of its Jupiter observations on February 3.

As the spacecraft draws near, the disk of the planet grows, filling much of the field of view of the narrow angle camera (0.4 degree). Since spacecraft motion creates a pointing offset moving from one side of the imaging frame to the other, mosaics are now necessary to ensure full coverage of the planet.



COLD SPOT – Generally, dark features on Jupiter are warm, while light features are cold; the exception is the Great Red Spot, the coldest place on the planet. Believed to soar about 25 kilometers (15 miles) above the surrounding clouds, the Great Red Spot covers a portion of the planet about three times the size of Earth. With this and other pictures, scientists are able to detect counterclockwise motion within the spot. This picture of Jupiter was taken January 29, 1979, by Voyager 1 when it was 35.6 million kilometers (22 million miles) from the planet.

Voyager 1 will be taking three-color 2 x 2 mosaics of the planet every two hours (every 72 degrees of the planet's rotation) through February 21. By then, the disk will have grown from about 0.24 degree on February 3 to about 0.61 degree, and 3 x 3 mosaics will begin. Some wide-angle images will be taken through the methane filter during the current mission phase.

The 2 x 2 mosaics consist of shuttering once through each of three filters (violet, orange, and green) at four different points, moving the scan platform in a square pattern,



National Aeronautics and Space Administration

Jet Propulsion Laboratory California Institute of Technology Pasadena, California **Encounter Minus 24 Days**

Recorded Mission Status (213) 354-7237 Status Bulletin Editor (213) 354-4438 for a total of 12 pictures. When fitted together, each set of 12 will make one color image of the full disk of Jupiter.

Processing of the imaging frames taken in a 100-hour period from January 30 to February 3 is underway. The result will be a color movie of multiple Jovian rotations.

Infrared Spectra Continue

Voyager 1 continues daily infrared spectra of Jupiter. During January, the infrared interferometer spectrometer (IRIS) acquired 74 hours of data on the infrared composition of the Jovian system.

Earth-based infrared images of the planet are being used to interpret the spacecraft data. The instrument onboard the spacecraft will not have good spatial resolution until the planet is much closer, as it still sees Jupiter as one source.

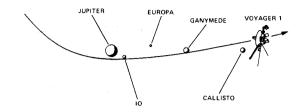
On January 26, the IRIS flash-off heater was turned on for the third heater cycle sequence. The heater remained on for 53 hours until January 29, when the heater was turned off, the instrument was turned on, and a dark sky calibration was performed. All systems are operating well.

Trajectory Correction Right On

Voyager 1's flight path was adjusted on January 29 with a 22-minute 36-second burn of the hydrazine thrusters. The ship's speed was changed by 4.145 meters a second (9.27 miles an hour). One more pre-Jupiter burn is scheduled for February 20, to "fine-tune" the spacecraft's aiming point, as knowledge of the orbits and ephemerides of the satellites are refined from Earth-based observations and optical navigation data.

Cruise and Target Maneuvers Allow Calibrations

A "mini" cruise science maneuver was performed by Voyager 1 on February 2 to allow calibration of several fields and particles instruments. The six-hour maneuver involved four complete roll turns followed by four com-



Voyager 1 March 5, 1979 Jupiter Encounter Trajectory

plete yaw turns, during which the spacecraft was off celestial reference. The current celestial reference star is Canopus.

Rescheduled from December, a four-hour target maneuver on February 8 provided critical calibrations of the scan platform instruments. The routine maneuver requires several spacecraft turns to position the target plate (mounted on the spacecraft bus at an angle to the scan platform) in the Sun so that each instrument can "look" at the reflective plate as the platform maneuvers.

Satellite Drift Measurements Begin

The ultraviolet spectrometer (UVS), which has been scanning the entire Jovian system, has begun zeroing in on specific satellites. Within the next week, the UVS will look at Ganymede (February 8), Europa (February 11), Io (February 12), and Callisto (February 16), measuring ultraviolet emissions. The instrument's field of view slit will be pointed near the satellite and slowly moved across it. This permits measurements of both the satellite and any nearby gas clouds associated with that satellite.

Voyager 1 Enters Jovian Realm

With the crossing of the orbit of Jupiter's outermost known satellite on February 10, Voyager 1 will have physically entered the Jovian system. Tiny Sinope, some 23 million kilometers (15 million miles) from its "parent", circles the giant planet in retrograde orbit (clockwise). The satellite was discovered in 1914; its diameter is estimated at about 14 kilometers (8.7 miles).



Viking News Center Pasadena, California (213) 354-5011

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Viking 2-30 P-18598 AAC February 22, 1977

Viking photographs a Martian dust storm. In this picture from Viking Orbiter 2, a turbulent, bright dust cloud (arrow) more than 300 kilometers (186 miles) across can be seen inside the great Argyre Basin. It is apparently moving eastward under the influence of strong winds that also create condensate lee-wave clouds to the west of the basin. This is the first color picture of a dust storm taken from a spacecraft orbiting the planet. Large depressions like Argyre and Hellas seem to be favored locations for the formation of dust storms. Later this year, when Mars comes closest to the Sun, a local dust storm like this may spread violently and cover most of the planet. A global dust storm delayed the start of Mariner 9's mapping mission in 1971. Although Viking scientists do not welcome the likely interruption of the mapping from orbit, the possibility of studying a global dust storm from its beginning is recognized as an unusually interesting phenomenon. The great Argyre Basin in the southern hemisphere of Mars is one of several enormous depressions created by the impact of large asteroids early in the planet's history. Previous Viking images and infrared data have shown that during winter the floor of Argyre is covered with carbon dioxide frost - the edge of the south polar ice cap. In this view of the region, at the end of southern winter, the bright polar cap covers only the southern half of Argyre - the cap has begun to retreat. In a few places among the mountains surrounding the basin the ice can be seen as white. Elsewhere the polar cap has a golden hue. Surface dust, apparently suspended in the atmosphere, filters the light from the cap and scatters light from the sun.

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