

THOMAS R. KARLO—THE TECH

Dean Glen L. Urban of the Sloan School declares his ultimate goal at a party held Monday to celebrate the graduate school's improved ranking.

knu jellybean radiis snot abacombie

equoi tis turquoise sky
smoof exiler bou octopi knu
jellybean. πqan radiis
bzzwee'd octopi jb octopi
piffles bighand octopi-
boogie. forgot songed plus
swell sheness ztt ellapant
QQ. forgots smoofing sky
thousand 1,000 twas plus
swell. octopi inged equoi
thymus, plus thymus-idrum.
octopi idrumed forgots
noodleness; axis forgot
babblesqzt bou equus
thousands.

axis, equus radii octopi
piffles (ellapant, salve?) foc
whooper. πqan radiis snot
jellybean abacombie. rainbow
radiis inged wordbirds, axis
πqan songs snot congruent ack
n't octopi. πqan radiis snot
swell wordbirds!! plus jeilly
songs snot wordbird forgot
swell equibrium.

octopi tis sirloin, sand jb
cows plus abacombies sun& sky
bzzz "idrumed," snot inged.
idrum ztt otiness n't idrumed
plus inged cows. davey wavey
chicken & gravy, vehicular
populate, hirtle, plus jeilly tis
idrumed. ack inged

abacombies tis sneaky smurf,
ming the merciless, plus
picnosey. equoi-baa tis ztt pop
sickle abacombie equus
radiis wordbirded. equus plus
wordbirded "mountain
diggerthrough" ler
"diggerthrough mountain."

If you have any suggestions that
might solve this problem, please
email them (no matter how unlikely)
to uranium@ugcs or send them to
MSC 999.

Dean's LOA Workshop

A workshop on "Taking a Leave
of Absence" will be offered to all
students on April 6, 1994 at 4:00 pm
in Winnett Center, Club Room 1.
Commonly asked questions such as
"Will taking a leave hurt my chances
for grad school/getting a job? What
do I have to do to take a leave? What
is a "good enough" reason for taking
a leave? Do students actually return
after taking time off?" will be
addressed. Two students who have
taken leaves and returned to Caltech
will discuss their experiences. Rep-
resentatives from the Dean of
Students Office, the Career Develop-
ment Center and the Student Coun-
seling Services will participate.

NASA Administrator Visits California

By Ross Brown

The Chief Administrator of
NASA, Daniel S. Goldin, spoke to
interested students at Occidental
College in the Alumni Auditorium.
Congressman Xavier Becerra, a
member of the House Subcommittee
on Technology, Environment and
Aviation, introduced Goldin. He
gave a talk entitled "NASA, Its
Future, and Public Service in Science".
Dan Goldin is the ninth NASA ad-
ministrator, appointed in April,
1992. He has been advocating the
view of a "faster, better, cheaper" at-
titude for space program develop-
ment.

Occidental was only one of
many stops that Goldin will make
while he is here in California. He
also spoke at McDonnell-Douglas,
and other universities around the
area. The event was sparsely at-
tended, which contributed to the
"cozy" atmosphere of the talk. There
was a question and answer period af-
terwards, then a hurried exit to the
next talk location.

Goldin talked about the changes
in NASA's policy over the course of
the past few decades that the Na-
tional Aeronautics and Space Admin-
istration has been in existence. He
also talked about the politics sur-
rounding the selection and appro-
priation of funds.

One of Goldin's important
points throughout the talk was that
America was losing its competitive-
ness in the world space market. He
illustrated this point with the ex-
amples that there are no training
planes to be bought in America any-
more, and that McDonnell-Douglas
tests its new designs in wind tunnels
located in Europe. America has not
built a wind tunnel in the last 40
years.

In 1971, the US government
voted down funds for a Supersonic
Transport on the drawing boards at
NASA. Europe developed it instead,
and the Concorde was born. Many
nay-sayers state that the SST
Concorde was a resounding failure.
With a total fleet of six aircraft, they
say that the program did not fulfill
the claims of affordable supersonic
travel for people around the world.

However, Goldin pointed out
that the Europeans have experience
now with titanium airframes,
whereas we are using less advanced
aluminum structures still. There
were a number of other technologies
that were developed as a result of that
program, helping to shape the Euro-
peans influence over the global
launch vehicle and airplane markets.

He also talked about the loss of
the American risk-taking initiative in
space exploration. Goldin blamed
the Vietnam War of tearing the coun-
try apart in many ways, including the
space programs underway and yet to
be developed.

Kennedy challenged the nation
to land an astronaut on the moon by
the end of the decade. NASA fol-
lowed through, and by July, 1969,
there were footprints in the sand of
the Sea of Tranquility. The Apollo
program was a large risk; the science
was not finalized until the astronauts
were on the moon.

Goldin defended the agency's
recent pact with the Russian Space
Agency, saying that it would be a
crime to let their space program rust
away, while we slave over in America
trying to achieve what they did 8
years ago. Although recent reports
of severe decay at Baikonur, the
Russian's main launch facility were
exaggerated, he said that there were
problems that could grow if left un-
attended.

He told his dramatic story of his
visit to Moscow, during which the
attempted coup d'etat on the Russian
leadership took place. Goldin recalled
the sound of gunfire, cannonfire and the sight of the TV
station in flames. He told us that
even through all of these events, the
60 leaders of the Russian Space
Agency, just a few blocks from the
fighting, was waiting for them when
they arrived.

Goldin gave examples of the
peaceful results of the pact with Rus-
sia. They are no longer selling bal-
listic missiles to India for use against
Pakistan. There are no more sales of
potential weaponry to foreign coun-
tries. There is a proposal on the table
for a combined Russian/American
space station that utilizes the pre-ex-
isting Mir station. The Russian space
program could be the largest space
program on the market in five to ten
years, he said.

Goldin also told us of his "faster,
better, cheaper" policy. He talked
about how he successfully cut 1 bil-
lion dollars from the Space Shuttle,
and increased the safety and reliabil-
ity of the program at the same time.
He said that this was done by calling
up the Shuttle project leader and tell-
ing him that the funding was going
to be cut until he, the project leader,
said that safety was going to be com-
promised.

The NASA budget doubled be-
tween 1983 and 1992, without a cor-
responding increase in performance.
He stated that the agency has gotten
to the point where failure is rewarded
with more money and longer career-
building planning stages, while the
successful mission planners lose their
jobs or their positions when their
project is successful. "With incen-
tives like these," he said, "it is no
wonder that NASA has gone the way
it has".

His last and probably his most
important point was that America
and NASA must be prepared to take
risks. If the mission planners took
the risk and did their best, the cre-

ators should be rewarded. If they did
not perform as well as they could
have, then it is important he said to
encourage them rather than sponsor-
ing a media feeding frenzy.

He also blamed the media for
the "feeding frenzy" they get into
when there is a failure, however mi-
nor. Goldin pointed out that for
every failure there is a number of suc-
cessful missions that outnumber the
failures by hundreds of times. There
is a tendency to notice the changes
or differences in programs, and for
most projects, those anomalies are
the failures. It is important to re-
member to think of all of the suc-
cesses whenever one hears of the fail-
ures.

Dan Goldin pointed out the
numerous sometimes intangible, al-
ways unmeasurable spin-off tech-
nologies that benefit the American
public in ways that nobody can un-
derstand or fathom. General Motors
is still using a piece of design soft-
ware that was developed for the
Apollo program.

But most importantly, the space
program represents the dream of
outer space, of awe and wonder. At
the talk, Goldin said that "A nation
that loses its ability to dream is in a
nation that is in big trouble." These
are important words for an America
that will meet the change of the cen-
tury with a host of new and old prob-
lems, but also with an excitement to
solve them and reach out towards the
stars.

Glee Club Festival

On Saturday March 5, the com-
bined Caltech Glee Clubs performed
at the 65th annual choral festival of
the Pacific Southwest Intercollegiate
Choral Association (PSWICA). With
the help of baritone soloist
alumnus Dean Elzinga, we per-
formed two movements from the
Requiem by Gabriel Faure. The same
Requiem, as well as other pieces, was
performed the night before in Dab-
ney Hall by the Glee Clubs. Each
school in the PSWICA is allotted a
ten minute time slot in which they
perform music of their choice. By
random draw the order of schools is
chosen, Caltech drew the ninth place
slot this year, but most seemed to be
awake still when we took the stage.

One of the benefits of the festi-
val is the chance for each school to
get evaluated and improve their per-
formance. This year's adjudicator
was Charles Smith from Michigan
State University school of Music. Dr.
Smith also takes the afternoon to
work with the honor choir, a select
group of 8 individuals from each
school, with whom he works on vo-
cal techniques. Caltech's honor choir
this year was Laura Brady, Anita
Gould, Sara Russell, David Santiago,
and David Soergel. The honor choir
is a great opportunity to sing with
people who study music and who

continued on page 11



Letters to the Editor



Graduation Is Not for You

The following is a true story. The names have been left unchanged to embarrass the guilty.

There's a theory on campus that students are allowed input into such decisions as to whom the speaker at commencement should be. Many people have conjectured that this theory is false. What follows is a demonstration that the theory is indeed false. Proof by counterexample.

At the first meeting of the commencement committee, the chair of the committee, Judith Goodstein, opened with the statement that Dr. Everhart had suggested that he would be flattered to be the speaker at this year's commencement. Wait a second, I cried, we haven't even started meeting and already the person who makes the final decision is trying to get us to rubber-stamp him into the post. Nix on that. To the shock and amazement of the gathered faculty, I suggested that Dr. Everhart is not the most popular person on this campus. Hey, it's not his fault. Part of the job description for being university president is to be unthinkingly adored by some students, and reflexively hated by others. My major goal for being on this committee is because I've heard too many complaints the last few years that the major criterion for becoming commencement speaker is to be a personal friend of Dr. Everhart. However, the most curious thing about all of this is, Dr. Everhart told me that Judith Goodstein approached him and invited him, with the full backing of the committee, to be the speaker. One wonders how she got the full backing of the committee before we ever met.

Who do the graduate students want, I was asked. I suggested Al Gore. Stunningly, the man who had eagerly invited President George Bush (along with his charming local crony Governor Pete Wilson) to speak several years ago, was opposed to inviting a high-ranking Democrat. Interesting, since the justification I've heard given for inviting Bush was "politics matter". Why don't we blow off the man who's in charge of shaping national technology then? We don't expect any help from the government to keep this place going, after all. I then agreed to poll the graduate students to see whom we did want. Surprise! Most people who responded wanted Al Gore. At our next meeting I announced this. No

go. You see, the undergraduates don't want anyone here who will overshadow their commencement. They were willing to have Tom Clancy, though. After some amount of haggling, we struck upon something: This is the 100th Commencement, we want to make it special. Why not let the students speak? The idea that was approved by the committee was to have Dr. Everhart give a speech, along with one B.S., one M.S., and one doctorate. This seemed like a pretty solid idea. I supported it.

Then yesterday I get a memo from Judith Goodstein. The good news: we don't have to meet again. The other news: oh yeah, Dr. Everhart suggested that it would be real nice to have the retiring Chair of the Caltech Board of Trustees speak. Since we can't accommodate more than two speakers, student speakers are unnecessary. After consulting with an unspecified number of committee members, which did not include yours truly, Judith has extended the invitation and had it accepted. That's right, every suggestion made by the graduate students was overridden. In fact, the decision of the committee was overridden, or perhaps I should say undermined, by Dr. Everhart and Judith Goodstein. I was really looking forward to hearing some of my fellow graduates speak, now I'm not sure I'll even go. Last year's speech by a Trustee was, by all accounts, less than inspiring. I'm not questioning whether or not it is appropriate for Dr. Mettler to be asked to speak. He has done a lot for the Institute, and is certainly deserving of some recognition. My gripe is with how the decision was made.

We could have had Al Gore, Tom Stoppard, Mary Robinson (the president of Ireland), or several other fine choices. We could have had some exciting visions from freshly graduated Caltech students. Instead, we have one more friend of Dr. Everhart, accompanied by Dr. Everhart himself. *Quod erat demonstrandum.*

Daniel Maskit
GSC Representative
Commencement Committee

Please send submissions for letters to the editor to *The California Tech*, Caltech 40-58, Pasadena, CA 91125, or by e-mail to editors@tech.cco.caltech.edu.

The editors reserve the right to edit all letters or to refuse to print any letter for any reason.

Caltech's Minorities Gain Recognition

An outstanding editorial feature of last term was the series of articles by Edray Goins on the history of Caltech's underrepresented minorities.

Mr. Goins has been an indefatigable researcher of this topic for two years. He has uncovered a great deal about the history of African-Americans, among other groups, at the Institute.

When I came to Caltech as a full professor in 1960 and began teaching African history and politics, I was appalled at the lack of black tenured professors, and the small number of African-American undergraduates and graduate students. I'm still appalled.

President Everhart has tried from the beginning to increase the numbers of African-Americans at Caltech. One is grateful that we have an African-American woman on the Board of Trustees.

Thanks to Tom Everhart, Morgan Kousser, and Doug

Flamming, among others, we do well on Martin Luther King Day.

I've been fortunate to be able to bring a number of Africans to Caltech who have obtained graduate degrees. But the number of African-American undergrads and the lack of tenured faculty can no longer be answered with a smug attitude in some quarters: "If an African-American genius knocks down our doors, we will certainly let her in."

When I took Joe Rhodes, Caltech's first African-American student body President, to South Africa many years ago in the darkest days of apartheid, he commented at a number of universities on inferior conditions for blacks. But he found the position of black students and faculty in the best universities was far ahead of Caltech.

Edray Goins' thoughtful series of articles raises many questions. Mr. Goins and the Tech have spotlighted problems! Now let us have action!

Cordially,
Ned Munger
Professor Emeritus

QUESTION MAN

Dear Question Man,
Blacker.
—Holey Mole



Dear Holey Mole,

If you went to the California Institute of Technology, and decided to pick a freshman house at random, what would the inside of the pot at the center of the courtyard be after a particularly rowdy evening?

Dear Question Man,

Of course. The line is "Oo, ee; ooh, aah aah; ting, tang; walla walla bing bang; oo, ee; ooh, aah aah; ting tang tang walla bing bang."

—Witch Doctor

Dear Witch Doctor:

If a tree falls down in the forest and nobody is around, does it make a sound?

Question Man promises to find questions for all your answers! Send your best answers via e-mail to qman@tech.

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More Letters to the Editor

Expansion at Caltech

It seems that the large amount of donation Caltech has been gathering every year is finally initiating the expansion of Caltech. The Board of Trustees has been dreaming of for years. The new parking structure-satellite plant and Moore Laboratory are probably only a part of many more buildings and projects Caltech has in mind. As a graduating senior (SEE YAI) it is a good feeling to know that my alma mater will still be a major force in the scientific community many years from now. But maybe it is time we examined these constructions a bit more carefully.

I live in an off-campus apartment on Holliston and have to walk by the construction site everyday. The other day, something strange has caught my attention: I saw some workers Jack-Hammering the sidewalk right next to the Moore Laboratory construction site on Holliston. The weird thing was that they put a brand new sidewalk the very next day on the same spot. Since the construction has not even started in earnest, that sidewalk probably will not through the construction. Even if it could, the old sidewalk was neither damaged nor an obstacle to the construction process.

The point of all this is that I am edgy about large projects such as this. Blame me for having grown up in Bensonhurst, one of New York mafia's favorite hangout spot, and a place where small store owners have to pay a monthly "due" to some shady characters for no apparent reason. But I still don't know the full extent of the scandal in the Housing Office that occurred a couple of years ago, in which a Housing Office staff was rumored to have engaged in a flagrant embezzling scheme that cost the school (and the students) a lot of money.

I am not pointing any fingers, or insinuating anything. For all I know, the institute is getting its money's worth with these construction companies, in which case I am just a paranoid person. But one cannot be too cautious with big projects like these. Do people steal because they enjoy doing it? I doubt it. Temptation (e.g. loopholes, lax supervision) is to blame in most cases. Although Caltech is far less bureaucratic than other bigger

schools, there is always room for improvement. Once again, I emphasize that I am accusing no one, but just concerned about the school and its future.

Henry O. Choi

Old Editors Receive Blame

I would like to point out what I feel to be poor judgment by the former editors showed by the printing of Vicki Brown's Inside World towards the end of last term. I and several members of my house were extremely offended by it. I believe that if there were attitudes that were held by members of the house in the very distant past that Miss Brown feels bad about, she shouldn't characterize, treat, or punish the current members as if those views are ours.

In addition, I feel that at the very least, the editors should have alerted interested people (namely ME) and given us a chance to choose whether we were comfortable with having such a bitter attack appear in a public forum.

I am aware that the Inside World is only distributed to the Undergraduates, but despite this, I feel that such a twisted view of our House and its members only serves to further negative images that are unfair to us all.

John White
Fleming House President

The editorial policy limiting Inside World submissions to those from current undergraduates is still in effect, and will be observed closely in the future. -eds

by J. Random HercFrosh III and Lauren

Let's begin by introducing the objective of this column. It will hopefully be a semi-regular column designed to address the question, "Why are you all flaming idiots?"

Point One: Accept without proof that you are, in fact, all flaming idiots.

Point Two: Never question Point One.

Point Three: The authors are always right, even when they are wrong.

Point Four: Never question Point Three.

Point Five: This column is written with the express purpose of inciting thought, not riot. To this end, the views expressed herein are inevitably extreme and do not necessarily represent the opinions, thoughts or positions of the authors, editors, Caltech, or any sentient being alive today.

Point Six: Never question Point Five.

Point Seven: Above all else, never, ever forget Point Five.

Point Eight: Please don't kill us.

Without any further ado, let us introduce Today's Target: political correctness...

Our first point of contention with political correctness is this: the terms that we are expected to use are just plain ridiculous. Take, for example, disabled. Disabled "progressed" (we put quotes because we don't believe it's progress) to handicapped, which "regressed" to challenged and finally settled (for now) on differently-abled. However differently they're "abled," than normal people, and in the real world we have a word for people who lack certain

Kamikaze Duck Flatulence: A Social Commentary

fundamental abilities (sight, mental faculties, etc.). We call them disabled. And disabled was never meant to be an insult.

Admittedly, some labels are damaging, hurtful or insulting. And these expressions should not be used in polite conversation, or any conversation, for that matter. The problem with the PC movement is that all labels are immediately assumed to be offensive. Most labels are in no way meant to be offensive, but rather are meant to simply define a group of people.

All these euphemisms, as ridiculous as they might be, really only serve to mildly annoy us. We can live with a bunch of flaming idiots spouting out this nonsense. The true offense comes when they try to force us to use these words too. Though it is not technically a violation of free speech, since we can still say whatever we want in most environments, it has come to our attention that there are certain institutions in this glorious nation of ours who seek to limit this inalienable right.

There exist schools which, seeking to appease the PC faction, have instituted speech codes. These codes dictate which expressions are inappropriate or unacceptable. But it doesn't stop there. They also establish guidelines for disciplinary action should a member of the institution violate the code. As we said before, this is not illegal, but it's also not a good idea, especially in an institute of learning. If one is not allowed to say whatever he (or she) wants to say, while such guidelines may have succeeded in protecting individual's feelings, they have done so at the cost of the truth. And one of the most compelling truths that has fallen victim to these codes is that people hate each other.

The whole of the PC movement

is based on the idea of not insulting anyone. But sometimes we want to insult people! We personally hate a lot of people, a "right" we hold very dear. In some cases, this hatred is not justified; it's completely indiscriminate. This right to hate without cause is precisely what the PC movement seeks to deny.

We demand the right to hate people for no good reason, and to express this hatred using whatever descriptive labels we so desire. It can be argued that even while using politically correct euphemisms, it is possible to communicate any idea effectively. We concede this point. But sometimes, inflammatory remarks simply work better.

Author's Note: If you are not among Today's Target, don't fret. Your turn may be next.

The Deans are interested in hearing from you if you would like to attend New Student Orientation (Camp) as a Deans' IHC Upperclass Camp Counselor and have not already been selected by your House. Camp is scheduled for Wednesday through Friday, Sept. 21-23, 1994. The Deans are accepting nominations for seven Deans' IHC UCC selections through April 18, 1994.

Due to expenses, we are eliminating the position of Deans' Helper. However, the UCCs will need to perform some fraction of the tasks previously handled by the Deans' Helpers, including setting up campfires, administering the freshman survey, and (ugh) helping out in the kitchen. If interested, submit a brief written description of your unique qualifications (campus activities, talents, experience with audio-visual assisting, photography, etc. and why you want to attend camp) as a UCC to the Deans' Office, 102 Parsons-Gates, by Monday, April 18, 1994. We hope with your help, to add to the diversity of the Camp experience for the new students.

NEED HELP WITH YOUR INCOME TAX RETURN?

Where to get Tax Forms

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Call the IRS at (800)829-1040

California Forms: Local Public Library (not Caltech)
Call California's F.A.S.T. Phone Service at (800) 338-0505

Where to call with questions

Federal Forms: (800)829-1040
California Forms: F.A.S.T. Phone Service - (800)338-0505
Regular Phone Service - (800)852-5711

The Financial Aid Office (515 S. Wilson, Second floor), Career Center, Dean of Student's Office, and Office of International Programs have a two page tax guide available. Feel free to stop by any of these offices and get a copy.

Volunteer Income Tax Assistance (VITA)
is available in Pasadena
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Sat-Sun Bargain Matinee 2:00 p.m.

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SIRENS

Daily 5:15, 7:30, 9:50 p.m.
Sat-Sun Bargain Matinee 12:45 p.m.
Sat-Sun Regular Matinee 3:00 p.m.

THE CALTECH ENVIRONMENTAL TASK FORCE NEWS PAGE

Welcome to the first Caltech Environmental Task Force (CETF) news page. The CETF page will address environmental issues and concerns from the campus level to the global level. We hope this page will serve as both a forum for environmental discussion and as an informative resource. If all goes well, this page will become a regular weekly feature in The Tech.

We wish to foster communication and participation from the Caltech community in our immediate and global environments. To this end, we invite all of you, faculty, staff, and students, to write in with your environmental comments and questions. We will do our best to provide accurate and timely responses. Please write in! We need your involvement.

Our addresses are via email: cetfers@cco.caltech.edu, or campus mail: CETF, MC 251-18.

CETF meets every Monday, from noon to 1PM in Judy Library (110 Baxter Hall). Our next meeting is Monday, April 4.

The Caltech Environmental Task Force (CETF) is a volunteer campus organization that works with Caltech to promote sound environmental policy.

CETF has been at Caltech since the spring of 1990; the charter purpose of the group was to increase awareness of environmental issues and to promote sound environmental practice on campus. However, the group's main focus has historically been the maintenance of the recycling program, initially established in the early 1980's by Dr. Judy Cohen.

This past fall, at the urging of CETF, Caltech established a campus-wide, Institute-run white-paper recycling program, and Physical Plant has now taken over the operation of the campus recycling center. Most recently, Physical Plant and Custodial Services are in the process of implementing a cardboard recycling program, and a list of cardboard recycling sites follows.

Now that the recycling program is run on an institutional level, and is well managed by Custodial Services, CETF hopes to focus its efforts in various other directions. We will continue to promote the sound use of resources on both individual and administrative levels, and hope to ensure that administrative decisions in all areas are consistent with sound environmental policy. We will also commit some of our efforts to raising the Caltech community's environmental awareness of both regional and global issues.

Important campus issues that are as yet unresolved include glass, can, and newspaper recycling, water and energy conservation, proper disposal of all hazardous wastes, and how Caltech can work with the larger Pasadena community to promote a clean and healthy environment.

On the educational front, besides the newspaper column you are now reading, we are also working on a World Wide Web home page (see section below), and we hope to organize regular lectures and discussion forums which will address many campus, local, and global environmental issues.

CETF will also promote involvement in local environmental activities around Southern California. Such events include the upcoming "eco-products" exposition at the Los Angeles Convention Center, and involvement with natural habitat restoration projects.

WHERE IS THE CALTECH RECYCLING CENTER?

The Caltech Recycling Center is located at the north end of the parking lot behind Beckman Auditorium. The recycling center accepts glass (green, brown and clear), aluminum cans, newspapers, PETE plastic, cardboard, and white paper. Please do not leave your garbage at the recycling center!

There is a good deal of construction going on in the area just south of the recycling center — don't let this deter you from coming! To access the recycling center by car, you can turn east off of Michigan Avenue and drive straight up to it.

In the next year, the recycling center will move to a new location on Holliston Avenue. This move is not likely to take place anytime soon, though, and Physical Plant and CETF will keep you posted when the move does occur.

WHERE ARE THE CARDBOARD RECYCLING SITES?

There are currently six cardboard recycling sites around campus:

- ① At the main recycling center,
- ② Alles,
- ③ Near the Arms loading dock,
- ④ Behind the Caltech Book Store,
- ⑤ Beckman Institute
- ⑥ Beckman Behavioural Biology Building

WHY DOESN'T CALTECH RECYCLE COLORED PAPER?

(Perhaps this will answer some of the "100 words of griping" from a few weeks ago!)

We've been asked numerous times: "Why can't Caltech recycle colored paper?" The answer is simply that we are unable to ensure high enough quality colored paper to make it profitable for the recycling company to pick it up.

When we put out colored paper bins, people put in everything from plain colored paper, to glossies, to fax paper, to gummed labels, etc... The recycling company contracted by Caltech will not pick up such "low quality" colored paper — the company can not turn a profit on that kind of material.

Many people rightly point

out that Graphic Arts DOES recycle colored paper — why can't the rest of campus? The answer is that Graphic Arts IS able to ensure high quality colored paper to the recycling company. Graphic Arts puts only non-sticky, non-glossy, matte paper into their colored paper bins. It is profitable for the recycling company to pick up such batches of colored paper.

You might then ask — well, why not simply change recycling companies to one that WILL pick up "low quality" bins of colored paper. The answer is that even though we might be able to switch to a recycling company that would *pick up* colored paper, such companies have been known in the past to simply throw the low grade paper away, and, in fact, charge us for the pick up. The low quality colored paper simply would not be recycled, since it is not economically feasible to sort it.

We have been invited by the Simpson Paper Company to take a tour of their plant. If you are interested in joining such a tour, please send name and contact to sakae@csardas.gps.caltech.edu, or to 170-25. This is an interest survey so that appropriate arrangement can be made with Simpson Paper.

FEATURED UPCOMING EVENT:

SOUTHERN UTAH WILDERNESS ALLIANCE SLIDE SHOW

CO-SPONSORED BY CETF AND THE CALTECH ALPINE CLUB

On Monday, April 11, the Southern Utah Wilderness Alliance will present a multimedia slide show giving us glimpses of the wondrous sites in Southern Utah. The presentation will be held in Noyes, room 153 at 7:30 pm.

WHAT'S PLANNED FOR EARTH DAY?

This year Caltech will celebrate Earth Day on Friday, April 15. The "real" Earth Day is April 21, and most of the general public will celebrate Earth Day on the following Friday, April 22. We decided to have the Earth Day a week in advance so that we would be able to celebrate Earth Day TWICE this year: once at Caltech, and once at other LA area events. In addition to the fun and games of preceding years, we hope to increase our emphasis on informative tables. We hope people will stop by, ask questions, and get involved.

We hope to have information tables from various on-campus organizations and outside groups, including: Heal the Bay, Greenpeace, Simpson Paper Company (including samples of 100% post-consumer recycled paper), the Sierra Club, and the United Nations.

We will also have a CETF information table about a regional issue that effects all of Southern

California, the proposed nuclear waste dump at Ward Valley, CA. Ward Valley is above the Colorado River basin, our water aquifer.

The fun, games, and free Earth Day cake will remain as from years past. Clyde, the steel-drum player from Old Town Pasadena, will provide musical entertainment.

HOW CAN I LEARN MORE ABOUT ENVIRONMENTAL ISSUES?

With the ever growing use of the internet and user friendly internet access software such as Gophers and World Wide Web browsers (Mosaic in particular), the time has finally come for CETF to have its own World Wide Web page. This page will feature all kinds of information related to the environment. There, you can find out about recycling, environmentally sound consumerism, and much more. Look for the "Green Calendar" which summarizes events related to the environment taking place at Caltech and within the LA community. The page will also give easy access to other internet sites around the world featuring environmental information. If you want to know what you can do for the environment, then the CETF WWW page is for you.

The page is now accessible directly under http:

<http://www.caltech.edu/~cetfers/cetf.html> and it will also soon be accessible from the Caltech home page. Please bear with us as much of the CETF page is still under construction. We are still building up our information database, and with limited manpower and much still to write, it may be a few months before it is complete.

THE GREEN CALENDAR

The green calendar brings you an overview of environmental activities in the Southern California area. Currently, this calendar includes the activities of the following organizations:

CETF: Caltech Environmental Task Force

ZPG: Zero Population Growth - Caltech/Pasadena Chapter
Heal The Bay - Santa Monica, California

For submissions to the Green Calendar, send E-Mail to cetfers@cco.caltech.edu
Axel Kratel kratel@caltech.edu
California Institute Of Technology
Dept. of Environmental Engineering Science
(818)395-4427

Saturday, April 2, 9am-noon,
Habitat Restoration,
Point Dume Headlands
Come and help Heal The Bay with its dunes habitat restoration project. You will be pulling non-native weeds and planting native species in order to restore the

habitat to its natural, self-sustaining state. An ecologist will be on hand. This is a great opportunity to get out of Caltech, meet new people from the LA community, and get out in the sun to enjoy some fresh air. Call Heal the Bay at (800)HEALBAY for directions to the Point Dume Headlands.

Monday, April 4, 12 Noon-1pm
Baxter Library Conference Room

Caltech Environmental Task Force (CETF) Lunch Meeting. Join fellow Caltech students interested in environmental issues, both on campus and off. Help us plan Earth Day events for April 15th! Bring your lunch.

Saturday, April 9, 9am-noon
Habitat Restoration, Playa Del Rey Dunes
See description from April 2nd.

Saturday, April 9, and Sunday April 10, 11am-7pm, LA Convention Center
Come to the LA Eco Expo '94, the nation's largest showcase of environmental products. The entrance fee is \$7.00 but CETF has \$2.00 off coupons. Contact CETF if you would like a coupon or if you need transportation to the show. E-Mail to cetfers@cco.caltech.edu.

Monday, April 11, 12 Noon-1pm,
Baxter Library Conference Room

CETF Lunch Meeting. See description from April 4th.

Monday, April 11, 7:30pm, 153 Noyes
The Southern Utah Wilderness Alliance presents "Imagine," a multimedia slide show showcasing the Southern Utah Wilderness. The Caltech Environmental Task Force and the Caltech Alpine Club will be co-sponsoring this event. Refreshments will be served. All are welcome. An encore of this slide show will be sponsored by ZPG, see Sunday, April 17th.

Friday, April 15, 12-3pm, EARTH DAY on Winnett Quad

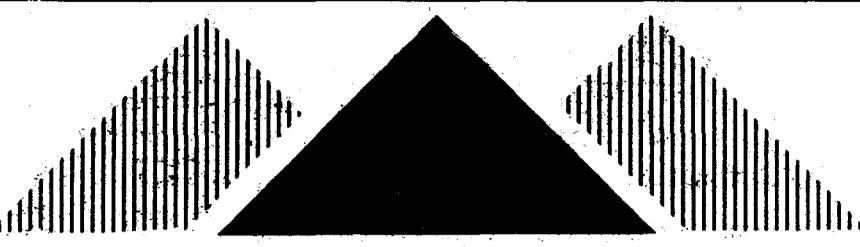
Come and join the Caltech Y and CETF to celebrate Earth Day 1994! There will be lots of activities going on, including games, a large cake and an environmental fair. Come to have fun and learn about what you can do to preserve our fragile environment.

Sunday, April 17, 9am,
backlot of Universal Studios

Come and join Earth Walk 1994, a 10K walkathon to benefit environmental agencies throughout Southern California. Jay Leno and a bunch of other hot shots will be there. The walk goes through the Disney, Warner, and NBC Studios. Call (818)76-EARTH to sign up. We will also have sign up brochures at Caltech's Earth Day on Friday, April 15th. Check with CETF at cetfers@cco.caltech.edu for info about car pools to the walk.

Sunday, April 17th, 1994, 4-6pm
Caltech-Y lounge

This meeting hosted by Zero Population Growth will feature a wilderness slide show presented by the Southern Utah wilderness society. This meeting is open to the general public.



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Seniors: Fellowship Program
\$6000 Summer Internship
\$5000 Scholarship for Senior Year

Seniors: Scholarship Program
\$5000 Scholarship for Senior Year
\$2500 Scholarship for Senior Year

APPLY THROUGH CALTECH FINANCIAL AID OFFICE
Application Deadline: April 11, 1994

Past Green Hills Scholars

Class of 1994

Siddhartha Agarwal
Wendy Belluomini
Peter Carlin
Andrew Lines

Class of 1995

Gregory Davis
Tom Zavisca

Class of 1990

Vivian Chow
Ed Lee
Charlotte Manly
Dave Proctor

Class of 1991

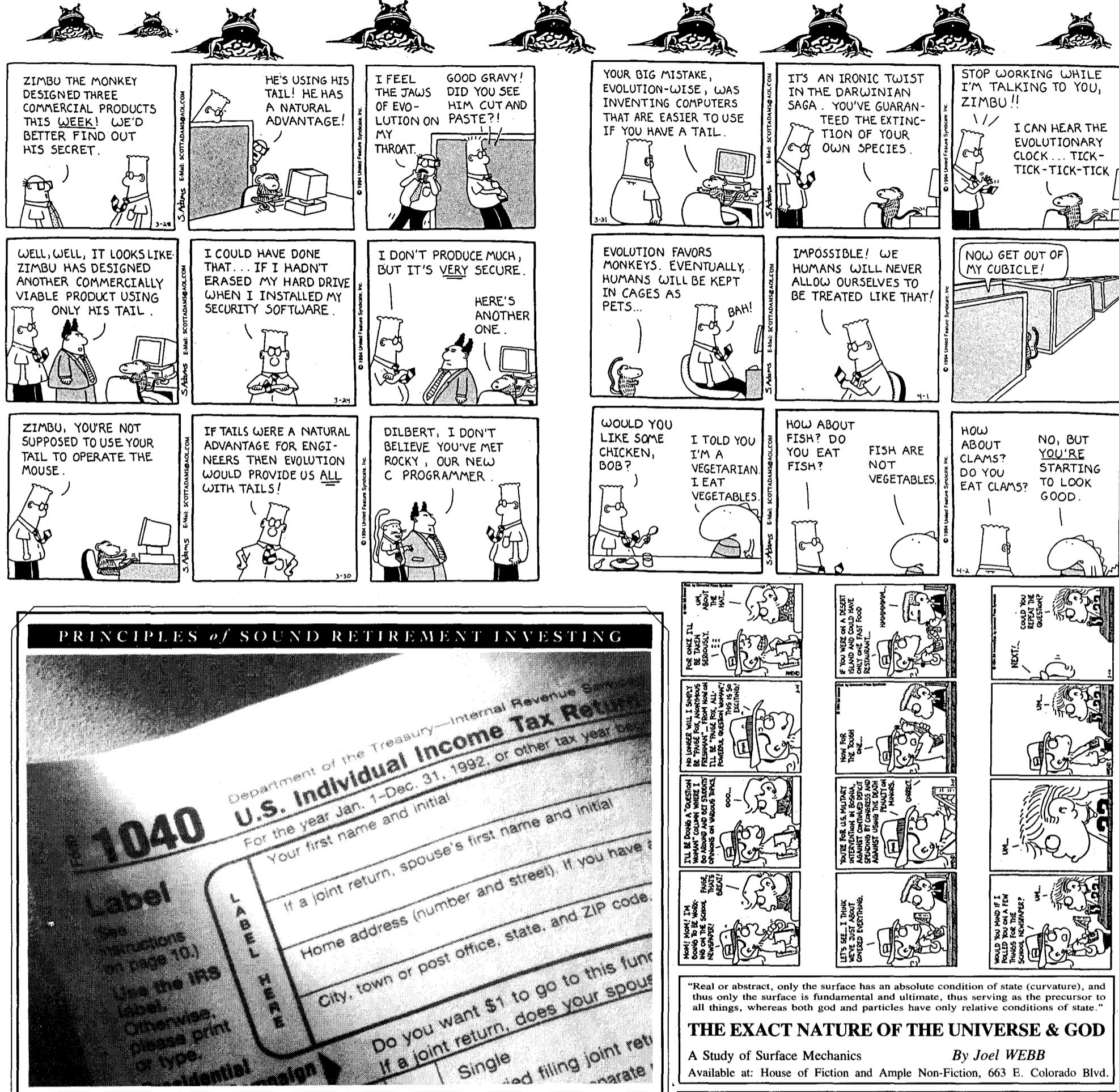
Marc Abel
Wendell Hicken
Yun Fong Loh
Kevin Luster
Eric Newman

Class of 1992

Jim Hu
Jeff Jones
Ed Lew
Dong Lin
Jay Obernolte
Chris Rosin

Class of 1993

Bo Adler
Gregory Dudey
Dave Krider
Brady Montz
Jared Smith
Yair Zadik



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"Real or abstract, only the surface has an absolute condition of state (curvature), and thus only the surface is fundamental and ultimate, thus serving as the precursor to all things, whereas both god and particles have only relative conditions of state."

THE EXACT NATURE OF THE UNIVERSE & GOD

A Study of Surface Mechanics

By Joel WEBB

Available at: House of Fiction and Ample Non-Fiction, 663 E. Colorado Blvd.

CLASSIFIED ADS

SUMMER EMPLOYMENT --

Summer Observers - There are several positions open for summer employment at the Big Bear Solar Observatory. The jobs involve solar telescope operation, film processing, electronics work, computer programming, etc. Free housing at Big Bear is provided, and cooking facilities are available. Some astronomy, physics, computer science, or electronics would be useful. Applications are available in 264 West Bridge, or can be obtained by calling x4011. -- Programming and data analysis positions on campus may also be available.

HELP WANTED --

Technical Editor - Editor wanted with major in Communication, Journalism/English to edit technical papers. Contact ARK International: (818) 791-8899.

Y.E.S.S. '94 - Head Counselor and Program Counselor positions for the Young Engineering and Science Scholars Program (Y.E.S.S.) are available for Summer '94. Y.E.S.S. is a five-week residential program that exposes 40 high school students to the joys of intensive scientific investigation. The program runs from July 5th to August 5th. Applications are available in the Vice President for Student Affairs Office and are due on Monday, April 11th. Contact Athena x6321 for more information.

FOR SALE --

T1486/25 Laptop, 120MB HD, 8MB RAM, 9600 PocketFax/Modem, Trackball, loaded with software, plus HP 500C DeskJet color printer w/ expanded RAM. All for only \$2000. Includes case. Call 584-9286 - leave a message

Above JPL, Charming 2 bedroom cottage, private road, secure, hilltop, beautiful views, near trails/streams, 3636 Canyon Crest Road, Altadena, 20% down. \$149,000. (818) 798-2020 after 5 PM

MOVING SALE! Queen-size bed (\$250), beige & white wide-striped couch (\$300) with matching oversized chair (\$150), oval wooden coffee table (\$40), bleached wood square end table (\$40), women's 6-speed mountain bike (\$100), table lamp (\$25), 50's style kitchen table w/ 4 chairs (\$200). Call before April 4th - (818) 795-5773

RATES \$4.00 for first 30 words; 10¢ for each additional word. Send written ad with payment to 40-58. Deadline is 6p.m., Monday before issue. No charge for on-campus lost & found.



Hello and welcome to the first ever CSS Space News column. I will include the latest space news compiled by myself based on information pulled off the net and press releases by NASA. No I am not "Space Guy". Enjoy...

The Good: First Ever "Moon" Found Orbiting Asteroid

In a press release and conference on March 23rd, JPL released a photo and information about the first moon orbiting an asteroid. The photo, of asteroid 243 Ida and its newly discovered natural satellite, was taken by Galileo as the spacecraft flew past Ida last August 28th. The photo was not

transmitted to Earth until recently because the spacecraft is sending data back at a very slow rate. The high-gain antenna got stuck when it was being deployed, forcing the use of the low-gain antenna, which can only transmit data at a slow rate because it is small.

According to team scientists at Jet Propulsion Laboratory, the image together with the data from the near-infrared mapping spectrometer are the first conclusive proof that natural satellites of asteroids exist. Even so, many pieces of information on the newly found moon, where it came from, how it came to be orbiting Ida and the details of that orbit, are still unclear.

Many were surprised that a moon was found so soon; they expected that it would not be so common. From the photo spectrometer, team scientists estimate the natural satellite is about 1.5 km (1 mile, by old measurement) across in this view, and appears to be at a distance of 100

km (60 miles), plus or minus 50 km (30 miles), from Ida's center. The position will be more accurately determined as new data comes in from the probe recorders and analyzed. Ida itself is 56 by 24 by 21 (35 by 15 by 13 miles) in size.

As of right now, the Galileo team members do not know the specific orbital parameters of the moon, information that can reveal Ida's mass. Combined with measurements of Ida's size and volume that can tell scientists the asteroid's density, offering more clues as to what it is made of.

The data from Galileo's near-infrared mapping spectrometer — which scans objects at a variety of wavelengths to reveal their chemical composition — suggest that Ida's moon is made more or less from the same kind of material as Ida, silicate rocks. More information on the object's composition will become available as color pictures and more detailed data from the spectrometer are transmitted to Earth over the next few months.

Galileo scientists believe the moon may have been created at the same time as Ida — when an older, larger asteroid was shattered in a collision with another asteroid, giving birth to dozens of smaller asteroids.

It is thought Ida and its moon were formed more recently than the

birth of the solar system some 4.5 billion years ago.

Galileo scientists also believe that it is virtually impossible that the moon is a "captured object," something created completely separate from Ida that happened to wander near the asteroid and be caught by its stronger gravity field. According to celestial mechanics, such an event would deflect the smaller object's trajectory, but would not be captured into orbit unless a third force slowed it down.

"Once we have determined the object's orbit, we can estimate time scales and make better guesses as to where it came from," said Johnson.

There is another image expected later this spring that is expected to be at least three times as sharp as the first image received.

The name of the moon is currently "1993 (243) 1" (pretty boring, huh?) — which will be changed by the International Astronomical Union later to something a little more fitting.

The Bad: CBO Releases NASA Budget Options

The Congressional Budget Office released a report on NASA budget options, and it does not look good for the space program. In the report, the CBO (economists and budget officials) laid out three options for

NASA:

1. Kill almost all space science missions (Hubble, Galileo, Cassini, Pluto Fast Flyby) and continue with all other operations.

2. Cut Shuttle operations to 3-4 missions per year, abandon Space Station Alpha, but keep the space science.

3. Cancel Alpha and the Shuttle completely. Cut 4 billion from the NASA budget, down to 10 billion. Close Johnson Space Center in Houston, Lewis Center in California, and possible others. Work on technology development for US industry, continue as a science and aeronautics agency.

The existence of this report does not mean that Congress will necessarily listen to them, but there are rumblings on the hill that indicate that it will consider the proposal seriously. Combined with the recent "anti-pork" campaigns aimed against science projects lately, NASA is sure to have a tough time getting money for future projects in the future.

The Ugly: Search For Martian Fossils is Studied by NASA

A scientist at Ames Research
see CSS, page 11



US

Two Marymount College students, Takuma Ito and Go Matsuura, were killed last weekend. The United States quickly attempted to counter charges made by anxious parents and the Japanese media that LA and the United States is a "gun-infested danger zone." In a telephone conversation with the Japanese Prime Minister, Morihiro Hosokawa, President Clinton voiced his regrets about the matter. California governor Wilson is advocating that the death penalty be imposed on criminals who kill during a carjacking.

President Clinton stated on March 24 that he was not involved in the Whitewater management. He will release his 1977, 1978, and 1979 tax returns to prove his word.

Mexico

A second suspect has been found in connection with the assassination of the Mexican presidential candidate Luis Donaldo Colosio last week. This suspect is believed to be a security guard who may have aided the gunman accused of the slaying. The guard, Tranquillo Sanchez Venegas is now under questioning. He was seen near both the gunman and Colosio right before the assassination.

Former cabinet member Ernesto Zedillo is named as the new presidential nominee of the slain Colosio's party. However, he doesn't have his party's unconditional support.

South Africa

Violence broke out in Johannesburg on Monday. It left in

its wake twenty dead and many others wounded. The violence erupted when thousands of Zulu nationalists protested South Africa's first all-race elections in the central business district.

Italy

Silvio Berlusconi, a rightist, appears to be the frontrunner for Prime Minister. Berlusconi's right-wing forces lead in the government elections. The centrist rule has long held a grip in government, but recent revelations of government corruption prompted the shift in favor towards the rightist party.

Japan

The Japanese Cabinet approved an economic plan that still leaves many US demands unsatisfied. The

US is expected to exert more pressure on Japan to open its markets.

Ukraine

Preliminary election results show that pro-Russian residents of eastern Ukraine and Crimea want more autonomy from Kiev and closer economic ties with Russia.

Israel

Six more Palestinian supporters of PLO chairman Yasser Arafat were killed by Israeli authorities. This recent slaying comes right before what negotiators for both sides predict will be a breakthrough in the peace process.

Negotiators will resume peace talks after the sudden halt caused by the Hebron Mosque massacre of thirty Palestinian worshippers. This

comes after an agreement on security arrangements for Hebron.

Croatia

Serbian rebels and the Croatian government agreed to renew a cease fire after an eighteen hour talk at the Russian Embassy in Zagreb.

England

The Irish Republican Army calls for a three day cease fire next week in order to nudge Britain to negotiate with Sinn Fein, the "political arm" of the Irish Republican Army.

Bosnia

Madeline Albright, the US Ambassador to the UN, and General John Shalikashvili, chairman of the Joint Chiefs of Staff, visited Bosnia on Wednesday. This is the highest level visit the United States has granted Bosnia since the conflict started two years ago.

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April 10

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ASCIT News

• The weekly Board of Directors meetings have been moved to Wednesday at 7:30 PM for the remainder of third term.

• The IHC Chairman has resigned his position for personal reasons. A special election will be held to elect a new IHC Chairman. See the related article in the Tech for more details.

• Sign-ups for appointed offices close at 5:00 PM on Wednesday, 6 April. See the related article in the Tech for more details.

• Chris Bryant, the Vice President/BoC Chair, has drafted a proposal to separate the BoC from ASCIT. Copies of this proposal have been posted in each House. Chris would like to hear your comments and ideas. Contact him at cwbryant@cco, x6200, or MSC 124.

• Katy Sippel has been appointed as Chairman of the Executive Committee.

• Flora Ho, Director for Academic Affairs, is looking for undergraduates interested in serving on the ASCIT Education Policies Committee (EPC). The EPC will assist the Director in academic issues and will work on the CLUE. If you are interested or would like more information, contact Flora at 683-9623, flo@cco, Page 205, or MSC 217.

• Thank you to all who turned in CLUE reviews for second term. For those who haven't, there is still time to submit them.

• The club Request Form for ASCIT Funding is now available in the SAC Mail Room (the room with the ASCIT copier). Clubs should pick up a copy as soon as possible, as the Budget Meeting will be on Sunday, 10 April 1994. Included with the form is an explanation of the revisions in ASCIT's funding policy as it affects club funding. Questions should be directed to Gina Serraiocco, Freshman Director-at-Large, at ginas@cco, x1440, Page 239, or MSC 811.

Appointed Offices Close Wednesday

Sign-ups for the ASCIT appointed offices of Election Chairman, Movies Chairman, *little t* Editor(s) and Business Manager, *Big T* Editor(s) and Business Manager, and *Totem* Editor(s) are open until 5:00 PM on Wednesday, 6 April 1994. If you are interested in one of these offices, please print your name on the sign up sheet (on the east side of Winnett, by the MOSH's office) and follow the directions. After sign-ups close, additional information about the appointment process will be sent to those who have signed up. Questions should be directed to the ASCIT Secretary at dderkits@cco, x1402, or Secretary, ASCIT, 64-58.

ADAM VILLANI: MEDIA GUY

I've been catching up on a lot of movies released last year that I hadn't seen yet before they leave the theaters. Very soon, I'll have seen all the old movies out that I'd like to, or they'll have left the theaters. Either way, you should be seeing some reviews of new movies in a couple weeks (*The Huducker Proxy* looks good).

The Cabinet of Dr. Caligari

This is a silent German film from 1919 that epitomizes the German Expressionist movement, with its bizarre, dreamlike sets, theme of insanity, and makeup and fashion familiar to fans of the Cure. Dr. Caligari is a travelling exhibitor with a zombidike "somnambulist" who comes to a small village and is suspected of causing a rash of bizarre murders. This fascinating film was enhanced by the live accompanying music of the quirky Club Foot Orchestra. It's very refreshing to find out that people were weird 75 years ago, and I recommend this classic not only for the experience of watching a silent film, stepping into another era, and witnessing a bizarre European fantasy world, but also because it is a very good movie that is entertaining even to "modern" tastes.

I saw this as a special event at the Nuart theater in West Los Angeles. People should get out and expose themselves to different moviegoing experiences more often. It's really not that hard to find them; just look in the L.A. Weekly or the Calendar section of the *L.A. Times*. The Nuart is always showing unique films, and there are theaters like the Regency One in Glendale that have weekend midnight double features of entertaining Hong Kong movies, along with free popcorn. One place I haven't checked out yet is the Silent Movie on Fairfax Ave, which shows silent classics three times a week.

Short Cuts

I'll go out on a limb and say that *Short Cuts*, the latest from director Robert Altman (*The Player, Nashville*), is possibly the best film of 1993. This adaptation of ten short stories of Raymond Carver, is certainly one of the most engrossing and intriguing, and deserved much more than one Oscar nomination (for Best Director, curiously enough). The multiple storylines are told in parallel, with the characters from each one intertwining and linking up with one another. The outstanding ensemble cast, which includes Tim Robbins, Lily Tomlin, Madeleine Stowe, Matthew Modine, Andie MacDowell, and many others, all play everyday people in Los Angeles who are all at least slightly neurotic and endure marital strife, finding dead bodies, malathion spraying, and other personal trials. Despite the myriad plotlines and three-hour length, Altman's movie never seems confused or sluggish, and is a fascinating character study. Though the film has some very amusing moments, it is nevertheless quite disturbing when it exposes the darker side of everyday life. A good point of discussion about the film would be the relationship between power, vulnerability, and nudity—*Short Cuts*' scenes with nudity seemed carefully calculated to cause uneasiness in the viewer. Unfortunately, *Short Cuts* just ended its six-month run in Los Angeles, but be sure to catch it on video.

Naked

This is another film from late last year that I caught because I had heard rave reviews of its lead actor, David Thewlis, who won Best Actor at Cannes. I must say that the award was well-deserved and that Thewlis was robbed of an Oscar nomination. The movie is a few-days-in-the-life of Johnny, a depraved

British homeless man with some very interesting ideas about life. This film is definitely not for the easily offended, as Johnny is a pretty offensive guy. Even so, he's witty, intelligent, and extremely talkative, like a smarter, scummier Denis Leary (*The Ref*). The film suffers from a disorienting subplot about a womanizing playboy who barges in on Johnny's friends, but is overall a gripping character study.

Jurassic Park

Believe it or not, I never got around to seeing this movie until this week. I read the book over the summer, and I have mixed feelings about the movie version. The action scenes were terrifying and the characters seemed better fleshed out than in the novel, but the screenplay adaptation was particularly annoying in several spots, such as the inappropriate "death on the toilet" scene, and the fact that Dr. Grant (Sam Neill) and Dr. Sattler (Laura Dern) were turned into a romantic couple for the film, forcing the main female character into the role of love interest. Nevertheless, I found all of the scientists and engineers to be believable people I could run into on the Caltech campus. This blockbuster did make for some good escapist entertainment. You should see it at a theater, but the print showing at the Academy is really poor, like the ASCIT movie on a particularly bad night.

1993 Nominated Oscar Shorts

If you think that documentaries are all like the filmstrips you saw in junior high school, then you obviously missed this package of three short documentaries and three short fiction films showing at the Monica theater in Santa Monica. Suffice it to say that each of these six films has just as much impact, or is just as entertaining, as a feature film. This is one category in which the Motion Picture Academy truly does select great movies. The documentaries are all controversial, and concern a photographer accused of child pornography (watch for the Pat Robertson cameo), a lesbian marriage, and battered women in prison for killing their assailants. The short fiction films are so compact that they are almost perfectly constructed pieces of cinema; there is nothing extraneous and each one has a truly surprising twist at the end.

Pink Floyd

The first Pink Floyd Studio album in seven years, titled *The Division Bell*, arrives in stores this Tuesday. If it's any indicator, I caught the last fifteen seconds or so of the album on the radio last night and immediately thought, "Hey! This sounds like the new Pink Floyd!" I also understand that there could still be tickets available for their second night at the Rose Bowl, April 17. I probably don't need to tell you that this concert promises to blow your mind away.

Yes—Talk

Yes is back down to the lineup that brought you 90125, and has produced a great new album. *Talk* is a very energetic, uplifting recording featuring the full-length version of the single "The Calling" and the 16-minute opus "Endless Dream." This album won't appeal to you if you're into pretentious "alternative" pop (which is topping the charts), and certainly isn't a masterpiece like *Relayer*, but it is proof that Yes is still capable of creating good music. A couple of the tunes are a bit cheesy ("State of Play", "Walls"), but the majority of this album is music that really moves me, and serves as a good counterpoint to all of those hours I spend listening to Brian Eno and Steve Reich. The members of Yes are more talented than 99% of the people in the music industry and should be amazing on their tour this summer.

IHC Chairman Special Election Soon

The Interhouse Committee Chairman has officially resigned his position for personal reasons. As established in the bylaws, the ASCIT Executive Committee will appoint a temporary replacement until a special election can be held. This election process will proceed as follows. Nominations for the office of IHC Chairman will open on Monday, 4 April 1994 and close the following Tuesday, 12 April, at 5:00 PM. If you are interested in running for this office, please print your name on the nominations sheet posted on the east side of Winnett (outside the MOSH's office) and follow the directions. It

is strongly recommended that every nominee submit a campaign statement to the *Tech*; the submission deadline is 5:00 PM on Wednesday, 13 April. The special election will be held on Monday, 18 April. Questions regarding the special election should be directed to the ASCIT Secretary at dderkits@cco, x1402, or Secretary, ASCIT 64-58.

Offices for Social Committee Open

There are two spots open for the ASCIT Executive Social Committee. Interested parties should sign up on the east side of Winnett. The job includes working with the House Social Directors and the ASCIT Social Director for the planning of campus wide social events.

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Editorial: Avery Center Honor Code

Lately on the newsgroups, there has been some discussion concerning the honor code and Avery Center. Michael Brundage has brought up the point that the honor code would be very difficult to administer the honor system. After all, how are we to apply an undergraduate rule to the faculty and graduate students with whom we will be co-existing?

Should we toss out the social aspects of the honor code? Sure! That is, with the stipulation that the honor code was created for convenience. After all, it would be very convenient to toss out the honor code at will.

But I honestly don't believe that is why the honor code was created. I imagine the "founding fathers" of Caltech, as one of their main motives for creating the honor code, wanted to create a school not of just scientists, but thinkers with ethics.

Why is the honor code here? When I applied to Caltech, I remember writing on essay about scientists having a "special" responsibility to the rest of society. I was given to believe that this special responsibility included thinking about how our decisions can affect other people.

I had always believed that during the second World War, the scientists who left the Nazi regime did

so because they did not want to participate in Hitler's bloody crimes. Some of these people were the scientists who were instrumental in creating the ideal of Caltech's honor code. So, the honor code should stand, both academically, socially and every other way possible. The honor code is not just for convenience.

In order to remedy what may become a situation at Avery Center, I suggest that the faculty, graduates and undergraduates who will be living there adopt some type of house honor code. The faculty right now have no "honor code" persay, but should definitely adopt one because they are the students' role model as scientists. If they don't have the ethics that Caltech is trying to instill in its students, then the students certainly won't believe in those ethics.

But then again, maybe those ethics don't exist here.

Cherish Bauer

Editorial entries will be signed by the author. Editorial entries do not necessarily reflect the views of other editors or the editing staff as a whole.



FROSH RULES GO IN EFFECT AFTER SPRING RECESS

The Freshmen Rules, drawn up by the Sophomores, and approved by the Board of Control will be effective after vacation. It is to be expected that some of the infants will set up an awful howl at having their liberties curtailed. The majority of the Freshmen, however, are in favor of the rules, if only because they will have the chance to formulate some for next year's frosh. It is up to this majority to see that the minority behaves.

The rules are as follows:

1. Freshmen must not under any circumstances enter Pasadena Hall via the main (or west) doors.
2. Freshmen cannot sit upon, loiter about, or park machines, horses, dogs, go-carts, velocipedes, roller skates, or autos near the north wall, between the Chemistry Building and Pasadena Hall.
3. Freshmen must, when on the campus, wear on the left breast (when in uniform, above the upper left pocket of short or blouse) a name plate. Said plate is to be one-half inch high by three inches long. The plate will be so made that a card bearing the name of the wearer may be inserted. The name is to be in black letters, on white paper, the letters $\frac{1}{4}$ in. high.

From Throop Tech,
March 28, 1919... 

75 and 25 years ago

From The California Tech,
March 28, 1969... 

Editorial

Dumb BOD

Dear ASCIT BOD.

Congratulations! For the second straight year you've blown appointments. My term as business manager expires at the end of this term (read: the by-laws, it might save you a lot of trouble.) I did not resign. I told Hornbuckle my term was expiring and you should appoint a new business manager for third term. So you appointed Schroeder "acting business manager," decided I'd resigned, and never did open nominations. Maybe next year.

Jeff Hecht

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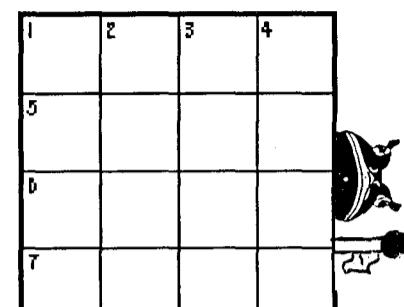
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Games & Puzzles: Crossword

By Lambros Dimetrios Callimahos

A Puzzle Specially Designed for Non-mathematicians, Topologists, Senior Executives, Busy Housewives, Tired Lovers, Indolent Indigenous Personnel, Macedonian Hillbillies, Sandouri Players, and Their Friends



ACROSS

1. A native of one of the Slavic countries. Frederic Chopin was one of these only because his father, Nicholas, a flute player and the representative of a Paris snuff company, was stranded in Warsaw when the company folded.
5. Amundsen, Byrd, and Peary led expeditions there, in all its frozen glory; the location of the *aurora borealis*. Incidentally, the U.S. Army's "Arctic Manual" gives a succulent recipe for lemmings, and also contains a most intriguing passage which begins "If you're not squeamish, ..."
6. This holds up a pup tent at either end; the pup tent was used in World War I and is a favorite among Boy Scouts, who in turn are favorites among Girl Scouts, our own favorite cookies in the small-fry world.
7. Prefix of the popular name for a smelly cat, *Mephitis mephitis*, which, when attacked, sprays the enemy with an offensive secretion from two apertures located on either side of its little f—y.

DOWN

1. Garden vegetables: small, round, green objects that are usually cooked by the Chinese together with their pods — the vegetables' pods, that is, not the Chinese's.
2. In debt. Also, a maiden's exclamations of titillated delight when her brawny swain brings her a one-pound box of Fanny Farmer's. (By the way, have you heard of the cannibal who brought his inamorata a box of...)
3. Overhead railways. New York City doesn't have one on 6th Avenue any more — as a matter of fact, New York no longer has a 6th Avenue — but Chicago still has these on the Loop.
4. Comfort; rhymes with trapeze. Also, the error sign in the Morse code ...

From *Word Ways*, Vol. 13, No. 2, May 1980. Used with permission.

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continued from page 7

CSS

Center here in California, has developed a strategy to search for microfossils on Mars. The search for life on Mars has shifted to the search for ancient life, since the current condi-

tions are quite inhospitable. Dr. Jack Farmer, the man responsible for the study, with colleagues at Arizona State University, has catalogued and prioritized the sites on the surface of Mars most likely to conceal well-preserved specimens.

Many scientists believe that an-

cient Mars was a much warmer, more volcanically active planet with a dense atmosphere and abundant water. If life developed on Mars, it is likely to have left a fossil record. According to Farmer, the best locations to hunt for microbial fossils are where nutrient-rich water once bubbled to the

surface as hot springs.

"Where organisms coexisted with early mineralization, we have the potential for preserving soft-bodied microbes, sometimes for billions of years," Farmer explained. "The precipitating minerals encase and bury the organisms and even entire

microbial mats.

Yes, It is True!

The Saturn V plans have not been lost, despite popular belief to the contrary. They are kept at Marshall Space Flight Center on Microfilm. The real problem with re-building the huge rocket would not be finding documentation (The Federal Archives has 2900 cubic feet of it!), but finding vendors who can supply 60's vintage hardware would be.

For more information about CSS and its activities, come to the meeting April 4th at 7:30 pm in SAC 15, or email css@cco.caltech.edu

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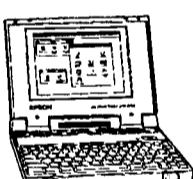
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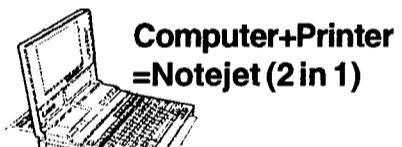
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Coming Events

The Steed Woodwind Quartet—is presenting a concert Friday, April 1, at noon in the Winnett Quad. Come and eat lunch to the relaxing sounds of the Steed Woodwind Quartet!

Caltech/Occidental College Spring Ball—Saturday, April 2, 7:30 pm - midnight. Dabney Lounge and Gardens. Live music furnished by the Caltech/Oxy Orchestra. Semiformal attire. No cover charge. Free Refreshments. Free dance lessons from 7:30-9:00 pm. Sponsored by GSC, the Caltech Y, the Caltech/Oxy Orchestra, and Caltech Business Services. For further information, call the GSC office at x6049.

The Eighth Annual "All Mozart Concert"—will be held Saturday, April 9, at 8 pm and Sunday, April 10, at 3:30 pm in Dabney Lounge. Featured performances include String Quartet in C Major, K. 465 and Church Sonata, K. 336 by the Caltech Chamber Music Program, Mass in C Major, K. 337 by the Caltech Chamber Singers, and Piano Concerto No. 20, in d minor, K. 466 by Wendy Caldwell. Admission is free.

1994 April Blood Drive—There will be a two-day blood drive in the Winnett Student Lounge, Tuesday, April 12, at 9:15 am-2:30 pm and Wednesday, April 13, at 12:15 pm-5:30 pm. Please contact Veronica Kirton at x6374 for an appointment, although walk-ins are welcome.

The Caltech Jazz Bands—will play at the Local Jazz Club *The Baked Potato* on Sunday, April 17, from 8:30 pm until midnight. Located at 25 E. Colorado in Old Pasadena, the Club has a great sound system and serves food and drinks, specializing in baked potatoes. General admission is \$8, and \$4 for students with ID. There is a two drink minimum. Friends of Caltech Instrumental Music are entitled bring one guest and both get in free of admission. The guest soloist is Angie Whitney. For reservations and information, call the Baked Potato at (818) 564-1122. Reservations are recommended.

FOCAL Drive Collection Underway—From science to science fiction, from history to travel—donations of books in all subject areas are needed for the annual Friends of Caltech Libraries (FOCAL) "Whale of a Sale" book sale, scheduled for Friday, May 13 from 8:30 am to 2:30 pm in Dabney Hall. New and used books, hardbacks, and paperbacks, as well as tapes and records are being collected from members of the Caltech-JPL community in a drive that begins April 1.

Bring Donations to the first floor of Millikan Library between 9 am and 5 pm, or the JPL Library lobby, Building 111. For more information, contact Janet Jenks at 395-6419 or 354-4200. A book collection party has been scheduled for Saturday, April 16, from 10 am to 1:30 pm. Refreshments as well as help in carrying books will be available. Proceeds from

the sale benefit special Caltech book collections. Club and Organization News

The Career Development Center—Approximately 150 companies advertise career-related jobs in The Career Development Center each year. Some of these jobs are advertised in the March edition of the ASPIRE Newsletter. There are a whole range of services that are designed to help anyone looking for any kind of summer job. Information sent by the organization is kept in a company folder filed by the Recruiting Library. Jobs available range from academic to nonacademic to international. Come into the CDC and find out how we can help you.

More from the Career Development Center—The new 1994 MCAT (Medical College Admission Test) packets have arrived! You may pick up yours in the Career Development Center, Room 08, Parsons-Gates. Hurry, they are Due March 25. You may register as late as April 8 but there is a late fee. If you have any questions call the Career Center at x6361.

CSS (Caltech Space Society)—is having its first meeting on April 4, at 7:30 pm in the SAC room 15. At this meeting, we will discuss club activities, enjoy snacks, and watch a video of computer images of other planets. You don't have to be an astronomer or engineer to join! All members of the Caltech community are welcome. For further information, email css@cco or call 568-8028. Ad Astra!

Caltech Film Club—Potential writers, directors, editors, composers, actors, etc.—any one who would enjoy being in front of or behind a camera—as well as general movie buffs are encouraged to become active members of the newly formed Caltech Film Club. We have some equipment now and should be getting more soon. If you haven't already, contact the Film Club at film@cco or Mail Code 155-58 for more information

Hillel—Weekly student-run Shabbat services are available every Friday at 5 pm. On the first and third Fridays of the month, services will be held in Caltech Women's Center, and on the second and fourth (and fifth, if applicable), services will be held at Occidental College. There will be transportation available to Occidental College. For further information, contact Gary Mines at x6542 or gam@juliet.

Adult Children of Alcoholics—Twelve step group meets on campus every Tuesday, from 12 noon to 1 pm, in Spalding Lab room 113. The group is open to any student, staff member, or member of the faculty who grew up with family alcoholism and other problems. For more information, call Dinah Lee Schaller at 395-8331.

Services and Classes

Ballroom Dancing Lessons Available—Thursdays at 6:30 pm. April 7th at Dabney Lounge,

and April 14 and 21 at Winnett Lounge. The lessons are free. No partner or experience is required. For more information, contact Sharon Kadar at x6971 or sharon@seismo.gps.

Guitar Classes at Caltech—Caltech Guitar Classes for the Spring Quarter will meet on Tuesday afternoons, starting on April 5 in Room 1 of the Student Activities Center (SAC) as follows: Beginners at 4:30-5:30 pm, Intermediate 3:00-4:00 pm, and Advanced at 5:30-6:30 pm. Classes and Flamenco repertoire are explored, but techniques transfer to other styles of guitar. The Beginning Class includes a jazz/folk chord system. Classes are free to Caltech students and other members of the Caltech Community (space permitting). Undergraduates can receive 3 units of credit if they choose. Private instruction on any level can also be arranged. The instructor, Classical guitarist Darryl Denning, has an international background in performance, teaching, and recording, and can be reached at (213) 465-0881.

Women's Psychotherapy Group—This ongoing psychotherapy group will examine a range of issues relevant to women's lives and experiences. We will explore the barriers for women in achieving success, balancing career and personal goals, and challenges in professional or personal relationships. These and other concerns raised by group members will be discussed in a confidential group setting over the rest of the academic year.

Lectures and Seminars

On Friday, April 8, the Caltech community is invited to hear *Pam Logan*, '82MSME, tell of her trip to China, which was made possible by the Durfee Foundation's American Chinese Adventure Capital Program. Her talk is entitled "Assimilation of China's Ethnic Minorities: Adventures of an Amateur Anthropologist." At 11:30 am, there will be a complimentary box lunch in the Glanville Courtyard of the Beckman Institute. Reservations are required for the lunch, and may be made by calling x3969 by Monday, April 4, 1994. The talk will start at 12:15 pm in the Beckman Institute Auditorium, and is open to everyone; no reservations are required. For more information, call Rachel at x6599.

Explorer, historian, and writer John W. Robinson will share lore of the San Gabriel Mountains and their history when he speaks at the annual spring luncheon of Friends of Caltech Libraries (FOCAL) at 12 noon Tuesday, April 19, in the Athenaeum. His topic will be "The San Gabriels: A 200-Year Love Affair." A reception will begin at 11:30 am. Robinson is the author of *Trails of the Angeles*, a guide to 100 hiking trails in the Angeles National Forest, and of other books on moun-

tain ranges in southern California. Reservations should be made by April 14 through Gloria Thomas at x6411. \$20 for members and \$25 for nonmembers.

Science, Ethics, and Public Policy Seminar—Thursday, April 21, at 4 pm in the Judy Library, 110 Baxter. Dr. Nicolas Rasmussen, Postdoctoral Fellow and Visiting Lecturer, History of Science, UCLA, Lecturer, History of Science, University of Sydney, Australia will present his lecture: "The Electron Microscope Becomes a Biological Research Tool." Refreshments will be served.

JPL's Center for Space Microelectronics Technology (CSMT) is hosting a neural network workshop entitled "A Decade of Neural Networks: Practical Applications and Prospects," sponsored by DoD and NASA. After 10 years of renewed activity on neural network research, the technology has matured and stands at a crossroads regarding its future practical applicability. The focus of the workshop is to provide an avenue for sponsoring agencies, active researchers, and applications. Such a plan will directly address relevance to US technology competitiveness in the global market. If interested in receiving an invitation, please contact Sabrina Kemeny as soon as possible at (818) 354-0660, jplnn94@brain.nasa.gov, since space is limited.

Scholarships

1994-95 Merit Awards—Each year, the faculty Committee on Scholarships and Financial Aid Awards a number of Merit Awards to the most academically talented of the Institute's Sophomores and Juniors, and in special circumstances, Freshmen. Merit Awards are based on outstanding scholastic achievement as demonstrated by exceptional performance in formal classes and/or independent research, and not on financial need. Last year, the Committee recommended a total of 43 Merit Awards. Awards ranged from \$5,000 to full-tuition, \$15,900. The level of awards in any year is determined by the number and caliber of the applicants. Applications are available in the Financial Aid Office at 515 Wilson. The deadline for submitting completed applications to the financial aid office is 5:00 pm on April 29, 1994.

The Japanese Government is announcing their *Monbusho Scholarship* competition for American students specializing in Japanese studies. Applicants must be US citizens, between ages 18 and 30 as of October 1, 1994, and third or fourth year students specializing in a field concerning Japanese Language or culture. Applications must be postmarked by Friday, April 8, 1994. Application forms are available at The Japan Information & Culture Center, Consulate General of Japan, 350 S. Grand Avenue, Suite 1700; Los Angeles, CA 90071. For fur-

ther information, please call Ildiko M. Gedeon at (213) 617-6700, x 338.

The Society of Women Engineers announces its 1994-95 Freshman and Reentry Scholarship Programs. The Freshman Program consists of eight scholarships of \$1,000 each for entering women engineering students. The *Olive Salenbier Reentry Scholarship* is designed to encourage and aid women in reentering the job market as an engineer after being out of the work force for a minimum of two years. Applications and supportive materials must be postmarked on or before May 15, 1994.

The National Hispanic Scholarship Fund is offering scholarships to qualified Hispanic students. Applicants must be full-time, daytime students who have completed a minimum of 15 college credits and are US citizens or permanent residents of the US. The deadline to submit applications is June 15, 1994.

The John Gayles Educational Trust is offering financial assistance to Canadian and American citizens. Selected students will receive up to \$2,500. A minimum GPA of 2.7 is required. Deadlines range from April to November. For an application, send a self-addressed, stamped 10 envelope to: The John Gayles Education Fund, Attention R. James Cougle, Administrator; P.O. Box 4808; 712 Riverside Drive; Fredericton, New Brunswick, Canada E3B 5G4.

Sunkyong's Second Annual Global Leaders of Tomorrow Essay Contest has begun. Registration forms and information are available in the Financial Aid Office. Essays must be received by Sunkyong no later than April 4, 1994.

The Danville-Alamo Branch of the *American Association of University Women* is offering several scholarships, from \$500 to \$1,000. Applicants must be female students from the San Ramon Valley, and must have a junior or senior standing in September, 1994. Application packets can be obtained from: Mrs. Janet Lather, 703 Contada Circle, Danville, CA 94526. The completed application must be postmarked by April 5, 1994, in order to be eligible.

The American Society of Mechanical Engineers is offering a number of scholarships to students enrolled in the mechanical engineering program. Some scholarships require the student be an ASME student member and some require US Citizenship. Awards range from \$1,500 to \$5,000. Demonstrated financial need may be necessary. The application deadline is April 15, 1994.

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