An Interview With President Goldberger

Problems With Student Life

By Lily Wu and Ken Whang

Second of three parts.

KEN WHANG: Much student dissatisfaction seems to stem from the Caltech philosophy of education to which you subscribe, namely the narrow-minded institution, interested solely in developing the science side of the students and not very interested in their personal and cultural growth. What is Caltech's academic philosophy concerning this?

MARVIN GOLDBERGER: Well, I haven't read recently what it says in the catalog or any similar promotional literature; the question is the extent to which life at Caltech, or opportunities there, suit all students. For people to achieve this dual goal of professional expertise and development of personality. And it takes various forms. As you know, we have a strong academic program and requirement that students have a significant exposure to the humanities and social sciences. That's always been true at Caltech, as far as I can tell and although we have a relatively nondescript and not terribly broad program in humanities and social sciences, we have a very good one that we're proud of and believe that studies in this area are an important part of a students' educational broadening.

Other aspects of the evolution of the Caltech community that have to do with living conditions, recreational facilities—

"I would like to discourage students from trying to become graduate students while they're undergraduates."

somehow more spiritual things—are areas in which we don't do as well as I'd like to see us do. Part of the problem as far as personal development is concerned is that you are all a highly self-selected group of people, obviously, you come here because of your interest in science and mathematics, many with tremendous dedication to their work and the little bit of time we have as much of an opportunity for exposure to all sorts of things that are important as you grow and become a part of society, culturally, personally and the lot.

LILY WU: Well, we do have the problem of setting standards and the requirement for it, but I don't think the typical student is given the chance to take advantage of it. You're required to take too many other technical classes, and each technical professor tends to teach his subject as your one that's important.
"Brotherly Love" Is a Success

by John Gahl

"Brotherly Love" is a romantic comedy by Mark Masouka that is billed as a love triangle with four sides. At the center of the triangle is Paul, a homosexual businessman, who is trying to be independent in a world ruled by his own friends. He has an insensitive and domineering sister, who raised him as a child and now cannot accept him as an adult. He is engaged to a woman who is racing against her "biological clock" to have a family before it's too late, regardless of her husband's desires.

Paul also has a lover who wants to have a mature and open love relationship in a society set against homosexuality. Paul seems to have the least to say about his life, merely trying to meet the expectations of his three closest friends. As the play unfolds, Paul, encouraged by his lover to be independent, breaks off his engagement with his fiancée and informs his sister that he wants to sell the business to become a photographer. As the two women react, Paul, not certain of himself, begins to falter.

The tension is further increased as his homosexuality is revealed to both his sister and fiancée. The action continues into the second act until a solution that seems to leave everyone satisfied, is finally achieved. "Brotherly Love" is a well-written play, with lively and witty dialogue as the characters are played with each other. Although the play has a slow start, the plot steadily builds into a plausible, albeit predictable, outcome.

The situations and the characters are very real, their concerns and fears honest and appropriate. Their conflicts and passions grow in intensity, giving us an insightful look at values in our own relationships.

But "Brotherly Love" is not a heavy, serious drama. Indeed, it is a very successful attempt at a light-hearted portrayal of a young man struggling to live his own life against the wishes and intentions of others. It is an enjoyable experience and entertainment. "Brotherly Love" will continue at the Liberty Theatre at 2035 North Highland (American Legion Building), Hollywood, Wednesdays through Saturdays at 8 pm until March 10. Tickets are available for $8.50 (851-2206).

The California Tech

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Friday, February 24, 1984

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Letters and announcements are welcome. Included with all contributions should be the author's name and phone number and the intended date of publication. The editors reserve the right to abridge letters, so please keep them concise.

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Subscriptions should be directed to the attention of the circulation manager.

For more information, see your Placement Counselor.

To the Editors:

Early in my life I was informed that there are basically three types of people—those who don't see things as they are, those who see things as they are and do something about them.

What Caltech needs is an "attitude adjustment hour." I sure have fond memories of the ones we had back home.

Respectfully yours,-Kelly D. Cherrey
Inside Information

Find That Paper

What's your score on finding a reference that is a paper from a conference or symposium or congress or meeting? How about very low! Best thing is to ask your local librarian for help. Suppose it is a week-end with no one to ask. Want a few guide lines to go it alone?

First try the card catalog (second floor of Millikan). If the name of your reference begins Conference then it's a snap. Look for Conference in the catalog. Skip all the little words like of, for, or on and go to the next significant word. Behind the alphabetical dividers you may find the conference you are looking for. The other main headings are Symposia/Symposium, International, National and then look for the next main word. If you know the editor that is even better—and might be simpler.

How about when you aren't sure of the correct title but you know when it was held and where? Try Directory of Published Proceedings. There you will find meetings listed by place and date. This one will tell you how it was published—book, journal, or report and when. In the same section (North end under the windows, also second floor Millikan) you will also find Proceedings in Print, listed by subject.

Conference papers may only be available as individual papers such as ASME, SAE, AIAA, etc. If you can't locate your paper or conference or it isn't on campus, your next step is the reference librarian who might be able to locate or obtain it for you.

Last words of caution! Proceedings are almost never listed under Proceedings, and publication can take one to five years.

— Jean Anderson

The Caltech Y Fly-by

Friday...February 17
Noon Concert—Ron George and his completely freaky bang-bang apparatus.

Saturday...February 25
Faculty-Student Conference—Ramo Auditorium, 8:30 am to 12:30 pm. Interested? Undergrads: sign up in the student houses. Faculty, grad students: contact the Dean's office.

Monday...February 27
Whole Watching—sign up in the Y office for Saturday, March 3rd trip.

Wednesday...February 29

Signups Friday and Monday in the Y for tickets to the L.A. Actors Theatre. $4.00/Adult $2.00/Student. "Sus—A modern English mystery. 8:30 pm, 2/29.

For more information, call the Y at 356-6163.

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PHOTOGRAPHY: STU LEVINSON

THE CALIFORNIA TECH / FRIDAY, FEBRUARY 24, 1984 — 3
The Inside World

Ruddock: The pigs were squealing all over the Ice House last Saturday night as the Rudds spent an enjoyable even-
teresting. May Mr. Cow bless our efforts. -

Fleming: It's been a beautiful week at the Fleming Beach, thanks in large part to Lola.
P.S. I wish there was a beach in Bloom County like the jock houses to prove bozos like you wrong.

Dabney: Monday was Wine and Cheese and, despite all attempts, the faculty didn't get blitzed. A waiter exchange

Blacker: The fearsome and terrible 117-eyed monster that dwells in Yucca Valley did not devour every living Mole

This weekend the big event is the Frosh Party. With Vanya

The three day weekend was much appreciated by everyone in the house, but getting up for classes on Tuesday

The Sophomores have still not accepted the football challenge.

The tug-of-war match between Ethnic Alley and Alley-gory for

Dunley: Monday was Wine and Cheese and, despite all attempts, the faculty didn't get blitzed. A waiter exchange

Paul

WE

still simply awesome.

The Getty Museum was just simply awesome.

If you visit the Museum, you'll also want to visit the

For the discriminating professional, this foundation offers personal and professional satisfaction in

During Signetics’ more than 22 years of designing, manufacturing and marketing of integrated circuits, we’ve established an unquestioned record of service, support and quality as the world supplier of integrated circuits.

The Signetics opportunity is dished out in numerous engineering disciplines: Research and Development; Process; Design; Product Applications; Failure and Analysis; Product Reliability; Manufacturing; Testing; Sales and Technical Marketing.

And, of course, a generous portion of compensation and benefits is included with all of these things that we would like to see.

continued on page 5

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Student Problems:

“I knew this one guy who would do his homework with a clock alongside of him and then tell me that he completed his physics problems in 47 minutes or something like that.”

from page 1

In talking about that, there is a capital fund drive being planned and we have made a
decision that by and large, we're not going to emphasize bricks and mortar. But if an
appropriate donor were to come up, very high on my list of building priorities is a truly
substantial student center with all of these things that we would like to see.

Our athletic facilities are adequate in all the ways that ought to be. We’ve made a great start
on a new swimming pool and weight room. We have a place for a new gymnasium; all we
need is a few bucks to build it. We need it for the students and we need it for the faculty.

If we had the resources, and this is something you could guide me on, we have had at
various times, musicians in residence. Maybe we ought to have a resident string quartet.

Let me ask you, do we do enough of that? Suppose you had a serious music interest, is it
available?

KW: There are lots of concerts available and staff like that if you have the time and you real-
ly want to go out for it.

IW: But even if they’re

“It’s a hard thing for me to come in and state baldly, ‘I think you should require less from the
students.’”

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You can make your selection from four kinds of meat and fish, nine fresh vegetables, and ten differ-
ent Bar-B-Que sauces. The sliced meat and fresh vegetables are cooked on our special Mongolian grill right
in front of your eyes.
Goldberger Probes The Various Causes

from page 4
available, the typical student
spends more than nine
hours on a nine unit class
after classes and an hour and a half to go to a concert.
mo: I used to be depressed with
this assignment if the number of
hours you're supposed to take
with the homework. People
who spend more than nine
hours on a nine unit class
often can't spare just an hour
and just start flailing around,
and I know less about
rotation than I ought to but I
have serious reservations
about any system of
that variety.

LW: I think you say things with
such startling clarity, that
you have to say things over and
over again.

MG: The point has never been
that that
docent who has said that they
ought to but that men are
mentally inferior and need more help than
the male students. That is un-
fair and damaging to our self
confidence.
mo: I know, that's terrible.
They better not let my wife
hear them say it.

MG: True. And I think it is a
student problem. The
system.
mo: It's a hard thing for me to
accept. It's not like
rotation.

LW: I think they are in the
definite minority and a school
should forget its academic
policies on a small gender
minority. The vacations are too
short and holidays too few.
Maybe the Institute should re-
quire less for graduation or
restructure the trimester
system.
mo: It's a hard thing for me to
sick my nose in, to come in
and just start flailing around,
and state baldly, "I think you
should require less from the
students."

It's something that has to
to be approached in a systematic
and careful and thoughtful
way, in consultation with pro-
fessors, and deans, and vice
presidents. And I think it is a
very important topic to bring
up at this student faculty con-
ference.

The point has never been
really well articulated. It comes
up now and again, but
somehow it seems difficult to
attract the attention of the
faculty, to really make them or
let them come to grips with it.
You know there are only a
limited number of things that
one can do structurally with
regard to providing oppor-
nunities for recreation and as
I say, it's no good
having a plateful, if you've got
everything. You've just got
to do the same things that you
don't have to do on their own time.
But

"The key to good pedagogy is
repetition. You always like to believe
that you say things with such
startling clarity that people ought to
understand things first time around.
But things don't happen that way."

Some people I know have
different styles, and I
knew this one guy when I was
an undergraduate who used to
drive me absolutely nuts. He
would do his homework with a
desk alongside of him and
then he would tell me that he
concluded his physics problems in
47 minutes or something like
that, and he got good grades.
But my style was entirely
different, and I got good
grades too, but it took me
much longer. And everything
has different ways of working.
I realize there are some people
who just seem to breathe
through

mo: I think you are in the
definite minority and a school
should forget its academic
policies on a small gender
minority. The vacations are too
short and holidays too few.
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startling clarity that people ought to
understand things first time around.
But things don't happen that way."

"We don't have
enough women on
the faculty. We
work on this
problem very hard."

I've learned over many years of
experience that things don't
happen that way. Even the
brightest student has to have it
said a few times in slightly dif-
fent ways. But this is
something I hope to address.
mo: You mentioned earlier
that you were going to say
something later about the
women's issue, that you'll get
back to later...
mo: Oh yes. Women as role
models is extremely important.
I think that is especially impor-
tant for the freshmen and
sophomores.
There was a period of time
last year, I don't know if it's a
problem this year, that for

We have
enough women on
the faculty. We
work on this
problem very hard.

some reason I didn't under-
stand fully, what appeared to
be an anomalously large
number of women were having
trouble with Physics I and
Physics 2.
I believe that if we had one
or two women instructors in
courses, it would help a
great deal. We don't have
even enough women on the faculty.
We work on this problem very
hard, I can assure you and the
number of women faculty is in-
creasing, but it's a slow pro-
cess.
mo: Well, from my own ex-
pertise, I know of a few pro-
fessors who have said that they
think women are mentally in-
ferior and need more help than
the male students. That is un-
fair and damaging to our self
confidence.
mo: I know, that's terrible.
They better not let my wife
hear them say it.

Next week: Teaching quality at Caltech.

International Education Services
10-7, Dogenzaka 2-chome, Shibuya-ku
Tokyo, Japan 150

Instructors employed by I.E.S. will teach Japanese
businessmen and engineers English as a second language and the
terminology in their own field of study or job-experience in Japan.

No Japanese language is required for classroom instruction.

Persons with a degree or job experience in such fields as
engineering, business administration, finance, pharmacology,
linguistics, languages or computers wishing to teach Japanese
adults for one or two years in Tokyo and other parts of Japan
should write to:

International Education Services
10-7, Dogenzaka 2-chome, Shibuya-ku
Tokyo, Japan 150

Instructors employed by I.E.S. will teach Japanese
businessmen and engineers English as a second language and the
terminology in their own field of study or job-experience in Japan.

No Japanese language is required for classroom instruction.

Prefer persons with one to two years job or teaching experience,
or master's degrees. An orientation and training are given in
Tokyo.

Information on salary, transportation and housing can be
obtained by providing International Education Services with a
detailed resume and a letter indicating an interest in the position.

Personal interviews will be held in San Francisco in late March
and Los Angeles in early April. Selected applicants will be
expected in Tokyo from June to October, 1984.
A Generation Ago

FROM OTHER CAMPUSES

The MIT Campus

by Smalley

Twenty undergradautes at Tufts' university fell prey to "vomiting, fever, and diarrheaa," reports The Tufts' weekly. Now, if that happened here at Tech, we'd know what caused it right away. But Tufts' isn't so bright; it took them a while to figure out that it was the food. The most likely cause of the disease, according to Froh'biner's microbiology text (they did the research, not us), is "soiled hands ... (or) food which has become infected and is allowed to stand in a warm place after little or no cooking...

The Director of the Health Service "emphasized that most of the cases are mild, that many of the students have fully recovered, and that there is no cause for alarm." Meals, presumably, will go on as usual, i.e., amidst the screams of the dying.

Candy, little girl?

Also in The Tufts' Weekly, we report that doctors at Brown University have taken to giving out birth control pills to some unmarried women. Doctors, of course, work for service. Dr. Pembroke, dished out these adult candies to only very few girls of whom were over 21. A second doctor only prescribed them for girls who were engaged or had been dating one person seriously for an extended period of time. We can only stand appalled at this scene of moral decay in a Great American University. In the good old days, when we were frosh, no self-respecting decent wholesome American girl would dare ask her doctor for such a pill — she'd sneak down to the drug store and buy them at the back door.

Did he succeed?

Did you know that Clark Kerr, President of the University of California at Berkeley, once said that the job of a university president was to provide football games for the alumni, sex for the undergraduates, and parking space for the faculty? Well, we have a football team and lots of parking lots. How about it, Dr. DuBridge?

Esquire Magazine, we note in the snooby-ridden pages of Georgia Tech's Technique, is running a contest to find the best-dressed man on campus. The lucky winner of this competition gets a week-long trip to the drug store and buy them at the back door.

The Purdue Expendent carries the story of unhingedプラス Blue-lighting at LSU's Baton Rouge campus. Hiding behind the matronly alaks of a vaguely-stated rule prohibiting "nude or obscene pictures," students have been attempting to air their gripes against the University. The affair was held in an auditorium, and as each student entered, he was given an IBM card which he was encouraged to bend, fold, tear, staple, or mutilate. Each card was numbered and speaking was done in numerical order. Each bitcher was given five minutes of time and was restrained only by the rules of good taste. Some 2800 students came forward for this venting of grievances. Maybe we oughta try that, but we couldn't go because the snakes would cut their throats while we were there.

The MIT Tech carries a mug shot this week, of a rather handsome and less dangerous Feynman. A frosh Feynman, to be exact, and the occasion is RF's Nobel Prize. Prof. Feynman, it turns out, graduated from MIT in '39, and thought it was his school in the country at the time. The Tech also carries the news that Volume II of Feynman is being used for the sophomore course at MIT this year. Feynman, when told of this, said "Poor fellows, hope they come out all right." I can see no future in it, for the book is supposed to be...
Basketball Victory

Beavers Beat PCBBC

by Ath Man at Large

The Caltech basketball team split two games last weekend, defeating Pacific (Coast Baptist Bible College), 75-69, and falling to LIFE College, 82-80.

The Beavers got off to a horrendous start against PCBBC, trailing 35-26 at halftime and 47-33 with about 10 minutes to go. From that point on, however, Caltech put on one of the year's most impressive comebacks: outscoring the Eagles 18-12 for the rest of the game to win going away. Stewart Peebles led the Beavers' sprint as he scored to tie the game and was fouled. LIFE rebounded his missed free throw and scored at the buzzer to win. Stewart Peebles led the Beavers with 18 points and 11 rebounds, also assisting to go. From that point on, the Beavers' second half defensive pressure, led by Tom Heer (five steals), was another key to the win, as the Eagles were forced into 22 turnovers.

The loss to LIFE was a heartbreaker for Caltech. The Beavers were led by one at halftime, 46-45, but LIFE had already established their ability to hit the unmoled baskets. The Beavers clamped down on the outside shooting a little in the second half, but LIFE turned it to the inside, utilizing its superior quickness to get easy baskets. The Beavers led 80-78 with about 20 seconds to play, but a LIFE player scored to tie the game and was fouled. LIFE rebounded his missed free throw and scored at the buzzer to win. Stewart Peebles led Caltech with 25 points and 10 rebounds, but he fouled out with about five minutes left. Zanelli scored 21 points, John Krehbiel (eight points) and Chris Kyriakakis (six) also were instrumental in the victory. The Beavers' second half defensive pressure, led by Tom Heer (five steals), was another key to the win, as the Eagles were forced into 22 turnovers.

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NOMINATE YOUR LEADER

Soprano Debut
Soprano Kaaren Erickson will appear in Ramo Auditorium, Friday, March 2 at 8 pm. This will be Erickson’s second Recital at Caltech. Included
on the program will be all arias by Mozart, Debussy, Brahms, Diener and Wolf. Erickson will be accompanied by pianist Arun Guzelmian.
A native of Seattle, Erickson was the baritone Marital Singer and made her professional operatic debut in 1982. Later that year, she won first prize in the Munich International Competition as well as awards from the Metropolitan Opera and the San Francisco Opera. The concert will take place in Beckman Auditorium.

Caltech students may purchase tickets to this event for $5.50-$0.40-$4.50 with a Caltech ID and $7-$0.40-$7 for rush tickets. Tickets may be purchased by Caltech students for $4 each beginning one hour prior to performance time (subject to availability).

TICKETS FOR CALTECH FACULTY AND STAFF ARE $12-$0.40-$12. Tickets may be purchased at the Caltech Ticket Office, just north of the Beckman Auditorium parking lot. Call X4652 for information.

FRENCH ONE-ACTS

A collection of French one-act plays by Fourier, Marivaux and others will be presented by the Caltech Theatre Arts program in the C.C. Players. Although Marivaux, an
appropriate representative of the century of Moliere, is well known in France, his work is little played in the U.S. and one reason for this is the length of it remains untranslated. The translations were made by the directors, Ray Lichener and Stacy Stein, and the plays will be performed in both French and English. Marivaux likes to examine the enigmatic with a blinding insight into the nature of humanity. The result is a blend of moral consciousness and 18th century elegance. In The Dispute, the question of whether man or woman was first to be enthusiastic in love is experimentally resolved when six young people, having been raised in isolation until the age of eighteen, are introduced to one another. The passion of the lovers lends the play great charm.

The Coloty deals with the eternally recurring question of the rights of women. A small group of women is stranded on a desert island where they attempt to construct a new society along rational lines. Both of these plays remain remarkably fresh for today's audience and deserve to be rescued from oblivion.

Performances will be held in Dabney Lounge, on February 24 and 25 at 8 pm, February 26 at 3:30 pm, March 1 and 2 at 8 pm and March 2 at 3:30 pm and 8 pm. Tickets are priced at $5, $3 for students. For more information, call X4652.

Cleo Laine and John Dankworth
Cleo Laine will be joined by John Dankworth and the Dankworth Quartet in concert in the Newbury Corporation; Santa Clara, CA; isolation will be out of the lovers lends the play great charm.

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Senior Photos
The Big T is now accepting senior photos for the 1983-4 yearbook. The photos should be between 3"x5" and 8"x10" in glossy black and white. Note that the size of the picture turned in will probably not have a bearing on the size of the picture in the yearbook. All pictures should be turned into 101 Winnett along with a piece of paper containing the name, hometown and major of the senior. The deadline for senior pictures is the beginning of 103rd term.

For further information call Roger Fong (x3961) or leave a note at the above address.

soviet leadership

Caltech World Affairs Forum Monday, Feb. 27, 7:30 pm in the Y Lounge. Topic for discussion will be “change in Soviet leadership.” Reservations will be served Business meeting at 7:00 pm.

Tennis, Anyone?

Have you contributed to the tennis yet? Contributions of poetry, drawings, and photographs are being accepted from all members of the Caltech community for this year’s tennis tournament. Tickets will be sold by the directors, Ray Lischner and Stacy Stein.

The new year marked the 33rd performance for the group that brings you Wagner, Beethoven, Schubert and Haydn’s Quartets in G Minor, Op. 76, No. 1; Bartok’s Quartet No. 4; Schumann and Dohnanyi’s String Quartet in E Minor and the “London” Quartet of Schubert for Hungarian Strings.

Tickets are regularly priced at $5-$0.40-$5. Rush tickets will go on sale beginning Tuesday, March 6 at 8 pm and should be purchased at the Caltech Ticket Office, just north of the Beckman Auditorium parking lot. For information, call X4652.

Shabbat
The week is over. Come to Friday night Shabbat service tonight 5:30-6 pm in the Y Lounge, Pasadena, at the Caltech Hillel. Sponsored by Hillel and the Caltech Jewish Community.

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