ROY GOULD NEW E&AS HEAD

Dr. Roy Gould, chairman of Engineering & Applied Sciences faculty members should have industrial experience or, at least, industrial contacts. This desire reflects Dr. Gould's belief that Caltech's contribution should be primarily in developing new technologies. Caltech is not heavily involved in solving industry's day-to-day problems, but in discovering new areas of concentration for the future.

This need to discern new areas of research is partially met by the undergraduate's contribution to research. Dr. Gould feels that the undergraduate years are highly important in helping the student find interesting, challenging, and rewarding areas to pursue in their careers. Dr. Gould firmly believes that each student should anticipate changing focus several times in their projected 40-year career. For this reason, students need a broad background in their undergraduate education. However, research illustrates the many ways in which the student can become involved in engineering. Also, the student learns that only half of research is experimenting and communicating results—the other half is defining the problem and discovering what can efficaciously be explored in the problem. The importance of research is not lost in the mind of Dr. Gould, and he anticipates continuing research opportunities in the realm of the senior thesis.

Dr. Gould takes his responsibility very seriously; he will do his best to support the programs the division institutes through both his and the faculty's initiative. Best of luck to the new "facilitator" of E&AS.

ROY GOULD NEW E&AS HEAD

Hey Mon, Nomono Today

Nomo Sono, Dabney House's latest excuse for a band, will play a Noon Concert out on the Quad today. The group consists of (from left) Bill Farr, drums; Rock Howard, lead guitar and vocals; Jean Richter, vocals and rhythm guitar; J. C. Collins, bass; Romney Katti, drums; and Steve O'Neal, vocals. We recently cornered the band members in a daisy patch for this brief interview.

How long have you guys been together? Bill: Since the beginning of third term. That means we've stuck it out longer than most bands do nowadays.

What do you attribute your unique sound? Jean: Cocaine.

What are your major influences? Jean: Cocaine.

What do you hope to get out of your music? All: Cocaine. What will you be doing Friday morning to get ready for your performance? All: Cocaine, Bill, there are those who doubt your claim to being the most accurate drummer thrower in California.

How do you respond to...?
Lydick Defends Article

When I wrote the article which ran under the headline “The Apathy Syndrome,” I expected it to be read, complained about, and then forgotten by the people to whom it was addressed. I was, therefore, pleasantly surprised to discover that someone had been incensed enough by it to write a letter in reply. The pleasant surprise, however, quickly gave way to dismay as I discovered that the reply was little more than the knee-jerk reaction so often seen in anti-nuclear statements. In addition, there was some evidence that Mr. Tajima misunderstood the basic thrust of my article.

First, and most important, let me hasten to point out that one need not have an elitist attitude to be a member of an elite. Techers are members of a technological elite by virtue of their training: they are in a position to understand our current technology much better than someone lacking their training could hope to. This, whether they care to admit it or not, places them in an elite group. In no way should this be interpreted as meaning that there is any reason for Techers to ignore anything except technology; in fact, it is exactly this insularity which my article attacked, and I, as are Techers, must admit that social realities indicate that the technological elite cannot be significantly expanded, and that probably neither can the interests of the average Techer.

As to the “economic and political considerations” I am afraid that I must point out to Mr. Tajima that, as a student in social science, I’ve probably given more thought to these issues than have most people. It appears to me that the economic issue boils down to two points:
1) Which power sources are economically feasible; and
2) Whether research should be directed toward alternate energy sources, if they are not feasible now.

With regard to the first, the economic cost of nuclear power probably understated due to limitations on the liability of utilities using nuclear power: if a company does not face the full costs of its actions, these costs will not show up in the rates. If the utilities had to insure against the damages a nuclear accident could cause, their rates would be higher. Perhaps high enough that nuclear power would not be economically viable. Be that as it may, the simple fact is that alternate energy sources simply are not currently viable. Solar energy is more expensive than even fossil fuels; once reliability constraints are considered, so are windmills; you can’t transport geothermal energy directly, and the same is true of water power. That leaves the question of how serious the risk of a nuclear accident (certainly a technological question) at the primary issue of the first point.

The second point is the classical public goods problem (no one firm finds it practical to invest heavily in research, but we might be better off with that research) with a little uncertainty thrown in just to keep things interesting. It is my personal belief that such research should be undertaken; the question I point out that, given the nature of the question and the quality of the available data, there is nothing in economic theory to justify this position—I state it as a concerned citizen, not as a scientist and not as an economist.

The political issue is at once easier to state and harder to resolve. First, I favor nuclear power, Mr. Tajima opposes it. The question is how, how? How could one decide for themselves on the merits of nuclear power and then inform politicians of both their conclusions and their reasons. “It isn’t safe,” isn’t good enough. That’s no better an argument against nuclear power than the fact that uranium is relatively cheap is a good argument for it. For a good example of the poor anti-nuclear articles which find their way into the hands and eventually the opinions of the public, I suggest that Mr. Tajima read “Personal View: Report From Behind the Iron Curtain” by Lotman in the April 13-19, 1979 issue of L.A. Weekly.

"-Carl J Lydick

Working for CS Doesn’t Pay

Caltech has been reputed as being one of the leaders in understanding the social context of science. From my experiences here, I have sometimes had reason to doubt this basic tenet. During recent encounters with the Computer Science Department have only worsened my opinion.

In the Computer Science department, among others, hires undergraduate to work as teaching assistants. These students are hired by the approval of the department to do the work to be allocated to the students’ employment. However, this term, the Computer Science department decided to try something else. They did not notify the graduate office of the undergraduates who were functioning as teaching assistants. This was not an accident since I personally called Dr. Sutherland’s secretary about this fact several weeks ago. For a good example of the poor anti-nuclear articles which can so intelligently ignore the education of its students. The department head, Mr. Tajima, asked Mr. Sutherland, cannot expect us, as students, to treat the option as a viable functioning unit when it cannot even pay its employees and will then not even tell them what is going on.

- David Shenton

The Caltech Y fly by

Friday, May 4, NOON CONCERT with NO MO SNO with Rock Howard, J.C. Collins, Bill Farr, Jeanne Richter, Steve Olewine, and Donn Kanji. Presented on the Quad at noon. Bring your lunch. The concert will be won in the case of rain.

Saturday, May 5, DAY HIKE to Icehouse Canyon, Meet behind Winnert Center at 8:00 am. Bring a lunch.

Tuesday, MAY 8, SCIENCE SEMINAR with DR. OTTO FRISCH, Professor at Trinity College, Cambridge, England and co-discoverer of fission. His talk is entitled “On Speaking of Nuclear Fusion” at noon in Winnert Lounge.

Wednesday, May 9, UPDATE NOON DISCUSSION Series with DR. JUDY GOODMAN, Institute for Advanced Study, Princeton. Topic is “Water and Life.” At noon in Room 145.

Wednesday, May 9, “ALBERT IN WONDERLAND—Einstein’s Visits to California,” a multimedia presentation by Dr. Judy Goodman, Institute for Advanced Study. At 7:30 pm in Winnert Lounge.

Thursday, May 10, BILL KOSELKA, science advisor to the Caltech Y, speaking in Baxter Lecture Hall at 8:00 pm.

-Carl J Lydick

Letters

Regarding the above mentioned letter, I would like to respond by saying that I fully agree with your stance on the issue of nuclear power. As a student of Computer Science, I have witnessed firsthand the lack of support for nuclear power within our department. The department has failed to notify the graduate office of the undergraduates who were functioning as teaching assistants, and this lack of transparency has caused confusion and inconvenience for both the students and faculty.

In addition, I would like to express my concern about the recent update to our Noon Discussion Series. The topic of “Water and Life” is not only out of date, but also entirely irrelevant to the current state of research in the field of Computer Science. I believe that the department should be more proactive in choosing topics that are relevant and engaging to our students.

I hope that my concerns are taken into consideration, and that our department makes an effort to improve its communication and decision-making processes. Thank you for your attention to this matter.

-John Doe

Letters
Tennis

by Vic Manzella

After losing all six singles matches, including a tough match lost by first man Gary Yamaguchi (7-6, 7-6), the Caltech tennis team came back strong to sweep the doubles matches in a 6-3 lom to Whitter on Saturday. The match, which was played at Whitter, marked the end of regular season tennis action for Caltech for this year.

In the doubles matches, the team of Yamaguchi and Peterson beat out their Whitter opponents, Amador and Larkins, by scores of 6-3, 7-6. The team of Brackett and Glassnover scored a 6-3, 7-5 victory over their opponents Fuentes and Harvey. In the third doubles match, Lutz and McCarthy virtually destroyed Ward and Buckel of Whitter with a 6-1, 6-2 win.

The SCIAC Conference Tournament will begin at 1:00 pm at Whitter. Finals matches will be held on Saturday, also at Whitter.

Track Finals Open

by Vic Manzella

Starting today at 9:00 am, and lasting until early this evening, is the first half of this year’s NAIA Division III Finals in track and field. The meet is being held at Bioda College in La Mirada (only a half-hour drive if you can find the gasoline). The decathlon will be the opening event for both days and the other events will begin at about 3:00 pm and run in the early evening. For Caltech there are three runners who have a chance to qualify for NAIA Division III Nationals. In the 400m, Jim Quilliam will make yet another bid for a 48.2 clocking. In the 1500m Rob Bourret will try once more for a time of 3:54.3 (last week he ran 3:58.1 on a fairly slow track). Also, freshman Lewis Collins will be running in the 800m, where his goal is a time of 1:53.0.

Anyone who is interested in seeing a good track meet and giving Caltech some fan support is encouraged to drive down to Bioda for just a couple of hours before dinner on Saturday. (Remember to bring some friends to pay gas.)

THE PHILOSOPHER'S ADVERTISEMENT

Consider a mass element with uniform density \( \rho \) and velocity \( \vec{V} \). The momentum density \( \rho \vec{V} \) is proportional to the magnetic field \( \vec{B} \). We will consider the case where \( \rho \vec{V} \) is a vector.

Knowing mass to have internal electromagnetic fields, the philosopher speculates that the momentum is carried in the electromagnetic field. Maxwell’s equations yield

\[
\rho \vec{V} = \frac{1}{2} \vec{E} \times \vec{H}
\]

Philosophically

\[
\rho \vec{V} = \frac{1}{2} \vec{E} \times \vec{H}
\]

The mass element has length \( L \), area \( A \), and such that \( \rho \vec{V} \), \( \vec{V} \), \( \vec{A} \), \( \vec{H} \)

\[
\rho \vec{V} = \frac{1}{2} \vec{E} \times \vec{H}
\]

is the Poynting vector power flow per unit area.

Thus, we find the philosopher’s energy = \( mc^2 \)

Momentum is field power, mass is energy. Energy is what a particle has, momentum is what a particle has around it.
Trackmen Make Good Show at Conference Finals

by Vic Massella

It is very difficult to decide just exactly which factors combine to produce an outstanding performance by an athlete on a given day, whether it be a world record in the pole vault or merely a few shots in an average golfer’s game. Last Saturday, at the SCIAC Conference Track Finals in Whittier, it is doubtful that the track surface was one of these factors. In fact, not even the air quality was much of a blessing—although it was a bit better than at the home meet two weeks ago. But despite these conditions, as well as a severe shortage of Caltech fans, several team members gave their best performances of the season, and Caltech battled to a tie with Redlands for fifth place in the SCIAC Championship.

At the start of the running events, small clusters of Whittier and Occidental fans cheered as their teams’ anchormen pounded out the turn into the final stretch of the 4x100m relay. For Caltech there were scattered cheers, mostly by team members, as anchorman Greg Blaisdell crossed the finish line in 4th place, with an official clocking of 4:05. The other members of this relay team were Mark Moomisst, Jim Quilliam, and John Hattick, and they all contend that their time was actually 43.999999 (breaking them into the 42’s—their target for the meet)—another watch had them pinned at 44.0. In any case, the performance was another season best for this relay team, and a comparable effort could put them close to the top in tomorrow’s District Meet. Earlier in the day, Blaisdell, a junior, had placed third in the high jump with a jump of 6’2”. This was Caltech’s only good showing for the day in the field events.

Shortly after the opening relay event came one of the day’s most notable performances by a Caltech runner, as senior Rob Bourret stepped up to the leaders and finished third in the 1500m run. Although he nearly held on to second place until the finish, Bourret was not at all disappointed with his clocking of 3:57.5, which was 1:42.7 miles. This was his best performance ever in the event, and if he can possibly run in another 8 seconds then this time he would qualify for a spot in the Nationals. Also competing in team of the 800m was Eric Korevaar (ninth in 4:20) and freshman Randy Field.

Yet another fine performance followed later, as Quilliam chopped three-tenths of a second off his season best with a dramatic second place finish in the 400m run. Quilliam was running in third place behind two Oxy speedsters going into the second turn. As they all came out of the turn into the final 100 meters, Quilliam looked the strongest. He soon passed one of the two and then rear-ended conference champ Steve Henderson at the tape. O’s excellence the 55.2 still was a short of making Nationals, but he has another chance at tomorrow’s meet.

Other showings included a 6th place finish by Moomisset in the 100m dash and a 5th place finish by Blaisdell in the 200m (at a personal best of 23.5), but the real highlight of the meet came with the last event of the day. As the lights were turned on and the mosquitoes began their evening meal, some of the 1979 SCIAC Mile Relay Champions: (from left) Hattick, Collins, Bourret, and Quilliam.

SURF City, Here We Come!

Applications are being accepted for the Caltech Summer Undergraduate Research Fellowship (SURF) program. The fellowships will pay a stipend of $2000 per student for a 10-week project to be undertaken under the supervision of a member of the Caltech research community. Selection will be based on perceived merit of both the proposed research project and the student. Choice of mentor is at the discretion of the applicant, and the research project should reflect the mutual interest of both the applicant and his or her mentor.

Applicants must be Caltech students in good standing who are US students. The letter requirement is a condition on the endorsement which will finance the program. The administration will discuss the program with the student to review this condition in the future.

Application forms and additional information are available from Carolyn Merkle in the office of the Faculty Officers, 14 East Bridge, between 10 and 3 daily. Deadline for application is May 15.

by Spencer Klein

"Murdering baby-killers"

was how Dr. Jane Goodall, famed chimpanzee expert described Pomp and Passion, two of the chimps she has been studying at the Gombe Stream Reserve in Tanzania. This was just one of the many anthropo-phobics she used as she described her studies on chimpanzee childhood in Tuesday’s Leakey Lecture.

Dr. Goodall has been studying chimpanzees at the Gombe Reserve for the last eighteen years. In this time, judging from her talk, she has come to regard them almost as people, assigning them human emotions and motives. She told how chimpanzee mothers tend to bring up their babies as they were raised; how some mothers are much more protective than others. She explained, for example, that a mother will begin to carry her babies on her back when the babies are about six months old, but those mothers who started earlier often had been started earlier by their mothers.

Dr. Goodall began by describing the first five years of a typical chimp’s life. At birth, he huddles in his mother’s arm, suckling for nourishment. For his first three years, he suckles for about three minutes once an hour. Gradually, in his first few months, he venture further from his mother, but still is reluctant to let go of her. At about six months, he begins being carried around in a ventral position riding on his mother’s back, rather than clinging to her stomach.

A little later, the chimps begin to play. According to Dr. Goodall, this play has many of the traits of human play, and is a basis for many of our later interactions as adults. At about three years of age, weaning begins. This takes the form of the mother pushing her child away when she/they want to suckle. At first, she will give in if press, after that she will be more forceful. As weaning becomes more intense, between 4½ and 5 years old, the young chimp will become demented and morose, and spend long periods of time sitting or lying near the mother, without attempting to suckle, according to Dr. Goodall. By the age of six, the weaning process is usually over, and the mother often has another infant to care for.

Dr. Goodall then went on to describe some of the unusual cases that have arisen during her research. For example, she told of the birth of a set of twins, born in 1976. (All the chimps names, the first set of twins known to be born in the wildness. She told of the other mother, had to carry two infants around at once. The twins, a boy and a girl, were so attached that they would not leave each other. She also suggested that a desire for men chimpanzees (and omnivores) may have been a factor.

Dr. Goodall’s talk was part of the Leakey Foundation Lecture series. A survey was passed out to the audience, asking what they would like to hear speak at future lectures. Out of the many names on this, you should make your feelings known.

THE KELROF Are Coming!!!

by Bill Gould

The 3rd Annual KELROF 24-Hour Relay is now just two weeks away, and preparations and efforts are in full swing. Over fifty people, enough for five teams, are already signed up. Blacker has a full team of Moles running, while Lloyd and Ruddock have both nearly finished organizing their teams. If anyone else is trying to get organized, they should contact Rob Bourret (2831 or 793-1930) immediately, even if the team is not completed.

All prospective runners should take note of the following dates:

Wednesday, May 9, will be a workout on the track at 5 pm consisting of several timed miles. This will give runners a chance to find out what they are getting themselves into! May 11, is the deadline for runnership to be there. Friday, May 11, is the deadline for runnership to be there. Friday, May 11, is the deadline for runnership to be there. Friday, May 11, is the deadline for runnership to be there.

Meet Scores:

1. Occidental
2. Pomona
3. Whittier
4. Claremont
5. Redlands
6. La Verne

We need more timers and training room helpers. Please sign up! The shifts are only for four hours long. Several veterans if previous relays have opted to be timers this year, saying “discretion is the better part of valor.”

"CAL-TECH ... CAL-TECH ... CAL-TECH ...

Jay Lewis and Lloyd Hattick, Collins, Bourret, and Quilliam. In the 24-hour relay, a false-starting Occidental College racer was out of the race. Left on the track—Whittier, Claremont, Redlands, Whittier, Collins, Bourret, and Quilliam. The second start was called by Lloyd Hattick, running his first quarter of the season turned a fine clocking of 53:3, staying right with the leaders a bit. The freshman Leakey track, this time with a 49.8. The final clocking of 1:24.2 will round off the conference championship in the 4x440yd relay, and after a long day Caltech had finally "grabbed some gold", finishing first in the men’s field. Meet Scores:

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New Club
Started

Well, folks, you probably know by now that we now have a Theatre Director here on campus (or will in a couple of months), and it looks to me as though we really ought to take advantage of that fact. In particular, this seems like as good a time as any to try to reactivate the Caltech Drama Club, an institution which has been defunct for some years now as a result of lack of leadership. To that end, there will be an organizational meeting for the new drama club on Tuesday, May 8, at 8:00 p.m. in Clubroom B, Winnett. If enough people show up, we will be electing temporary officers and attempting to roll out just what the group will do. One possibility is reviving the custom (which has existed for over twenty years) of an annual Greek tragedy to be presented by students in the spring of each academic year. Anyway, if you're interested in joining the club, especially if you have any ideas about what the club should do, show up on Tuesday. Who knows, you may become the club president.

First United Methodist Church of Pasadena
300 E. Colorado Blvd.
Invites you to worship with us during the week on Wednesdays from 12:15 to 12:40.
Beginning May 2.

EARN OVER $650 A MONTH RIGHT THROUGH YOUR SENIOR YEAR.

If you're a junior or senior majoring in sciences like math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as $650 a month right through your senior year. Then after 16 weeks of Officer Candidate School, you'll get an additional year of advanced technical education. This would cost thousands in a civilian school, but in the Navy, we pay you. It isn't easy. There are fewer than 400 openings and only one of every six applicants will be selected. But if you make it, you'll have unequaled hands-on responsibility, a $24,000 salary in four years, and gilded-edged qualifications for jobs both in the Navy and out.

Ask your placement officer to set up an interview with a Navy representative when he visits the campus, or contact your Navy representative at 800-841-8000, or send in the coupon. The NUPOC-C Program. Not only can it help you complete college. It can be the start of an exciting career.

NAVY OFFICERS GET RESPONSIBILITY FAST.
EDITORIAL

Ease Up, Guys

This past Wednesday was Polish Constitution Day. Polish Constitution Day is an annual Ricketts house event. The Scurves celebrate it with beer. Enough beer so that the House Polack can perform his duty and biological want over the Ricketts house pot. This commences the real fun.

The Scurves visit each house, making lots of noise and singing bawdy drinking songs. Well, this year the other houses were ready for them. It seems that many people here are violently opposed to the Ricketts House activity. There were bottles thrown, windows broken, and even people hurt. Now showering and ponding people is supposedly done in the name of fun. I went around taking pictures and listening in and I wonder whether some of the comments I heard and some of the night's activities really do stand up in the light of day.

I don't set myself above anyone right now. I've included something that I said that night. I wonder again whether it was actually me speaking or some influence the mob had over me.

I know that I spoke the words. I know that I'm ashamed.

-Alan Loh

(Supported by) -David C. Younge

Photos by Alan Loh
Somebody: Next year, when they come...

Mole: What are you going to do to me?
Mole: Shower him! Turn on the hot water! Scald the guy.

Scurve: What do you people do this??

Flem: This guy deserves Baxter pond...Showering's too good.

Mole: Fucking Scurves.

rush: Why do the Scurves do this??

...an "extraordinary company of dedicated artists, driven by gypsy genius and Spartan discipline" - Los Angeles Times

RUSH TICKETS for CIT STUDENTS at $2.00 each are available NOW. CIT/JPL faculty & staff $7.20-6.30-5.40. Tickets at Caltech Ticket Office (332-92) at Michigan & Lura St. Charge to VISA or MASTER CHARGE by phoning ext. 1662.

Sponsored by the Caltech Faculty Committee on Programs
public service

Munchies!!

The Pantry supermarket is open 24 hours a day, effective May 1, 1979. So, if you need to cash a check or don't want to walk to Market Basket, you're in luck.

Health Answers

Done Right

Practitioners will answer phone inquiries between 8:30 am and 10:30 am Monday-Friday on any medical question. If we don't have the answer, we'll get it or tell where to get it. Call Health Center, x2394.

Another Exam??

Arrangements for Physical Examinations for students for Graduate School, Transfers, Permanent and/or Summer Employment, Class II Driver's License, etc., may be made at the Young Health Center. These examinations will be done by Nurse Practitioners Tuesday-Friday mornings by appointment. Please call x2394 for further information.

Industrial Development

The Industrial Relations Center of Caltech will present 11 management development courses during May.

Three general management seminars: "Assertive Management" (May 1-2); "Effective Time Management" (May 15-17), and "Handling People Problems Face-to-Face" (May 17-18) will deal with the latest techniques in organizational behavior, motivation, and productivity improvement.

Additional seminars will be: "Improving Customer Service (May 8-9); "Management Skills for Engineers and Scientists" (May 8-9); "How to Implement a Wage and Salary Program" (May 7-9); "The Maze of Governmental Regulations" (May 15-16); "How to Administer the ERISA Plan" (May 17-18); "How to Manage the Private Truck Fleet" (May 21-22); "How to Establish a Preventive Maintenance Program" (May 21-22); and "Cost and Personnel Impact of Age Discrimination Legislation" (May 30).

A detailed description of courses offered may be obtained by writing Industrial Relations Center, 1-90, California Institute of Technology, Pasadena, California 91125, or call (213) 795-6611, extension 1041.

I Won't Quit Til I'm a Star...

George Benson, responsible for the biggest-selling jazz album of all time, Breezin', and whose "Living Inside Your Love," has just been released, will appear in two performances only at Bridges Auditorium on the Claremont Colleges on Sunday, May 13 at 3:30 pm and 9:45 pm. The band Sea Wind will open the concert.

Tickets for the May 13 concert are now available at Mutual Agencies, Bridges Box Office at 460 & College in Claremont, and by phone at (714) 621-8032.

Twelfth Night

In Eight Days

A contemporary production of Shakespeare's Twelfth Night will be performed by the New Shakespeare Company of San Francisco in Beckman Auditorium on Saturday, May 5. The performance will begin at 8 pm. Admission is $7.20-6.30-5.40 for CIT/JPL faculty and staff, $6.40-5.60-4.80 for Caltech students. For information call x2652.

Le Mans On Foot

Sign-up sheets to run in the 3rd Annual KEL-FOR 24-Hour Relay (May 19-20) are still up in the gym and the Page House mailroom. Runners and training room assistants are also needed. For more info, contact Rob Bouret (x2381) or Eugene Koh.

Go To The Icehouse Free!

The Caltech Y is having another of its daily hire this weekend. The hike is up Icehouse Canyon, lasting two days. We will be going at least to Icehouse Saddle, a hike of about four miles, with 2600' elevation gain. From there, there are a number of options. There are a few mountains nearby, among them Mount Cucamonga and Mount Ontario. There is also a trail camp nearby, Kelly's camp, for those who might want not to climb a mountain but would like somewhere nice to eat lunch. We'll be well west of here and near 8000' elevation, so there should be great views and little smog. Come by the Y today and tell us if you'd like to go.

We'll be leaving from behind Winnet at 8am tomorrow, May 5, and transportation will be provided.

New Prez

for CWC

Verna Mulheiman will be installed as President of the Caltech Women's Club at a Japanese program on Thursday, May 10, at the Athenaeum. Members of the executive committee will give us a farewell tip. We'll be leaving from behind Winnet at 8am tomorrow, May 5, and transportation will be provided.

G&C

Catalog of unique, nostalgic, and specialty items—many collection items with good investment possibilities. Items include: coins, stamps, antiques, artwork, comic books, old records, old magazines, old photos, books, buttons, and many others. Send 20¢ (deduct from first order) to: Frank Lou PO Box 548; Allwood Suite Clifton, NJ 07012.

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Typing Services. All phases of secretarial work. IBM Selectric typewriter. Call Ginger or Neil 684-4483 or 799-0192.

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Resumes, college papers, manuals, editing and corrections, etc. Call us now: (213) 335-4315.

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Professionally typed by ex-sec. editors, secretaries, reports, 30-year experience. Typesetting/proofreading. Fast, dependable.