Gentle Ray & the State of the Onion

by Ray Beauvouil

We still need a couple more applicants for the ASCT Educational Policy Committee and the Executive Social Committee. These positions have been significant in the academic community, and student input will be vital. Addition, Sue Fuhu, a very pleasant, social-wise, and intelligent woman, is starting to sound like a great guy. If not? There are a few elective classes up for grabs, too. Dan then, a Director-at-Large on the BOD, will attend the annual meeting of Illinois next year, we need a replacement. Any takers? There will be a sheet on Flora’s door by today. Next year’s class officers will be elected real soon: Senior President and Vice-President of the T.F. College next year; we plan to pick her replacement this summer. If you would like Flora’s job, or want to be a member of the “Replace Flora Committee” (the RFC), tell Flora.

Remember the survey of student attitudes that was done first term this year? The results were collected and printed in the continued on page four.

HOCKEY EMERGES WITH LAURELS

by Asbestos Alfonso

Serious, hungry eyes greet the reporter as he enters the locker room to search for his next interview. “Quick,” Culick stabs him for an opportunity to roam the wrong locker room. The reporter nervously pull out his press card “Slick” withdraws his honored name, “can’t get in here.” The reporter doesn’t find the casual atmosphere here that found in the locker rooms of Lakers, Dodgers, and Kings. The most recent playoffs, is a very different and vital game. It’s been five lean seasons since the last league championship belonged to Tech, rebuilding has paid off. The loss, the recruiting, cloning, pros and cons of playoffs, has been an example of how a team can pull together. A 14-2 regular season effort has garnered first place and the important home advantage for the playoffs.

For the reporter the initial task of getting to the team’s heads has been relieved by Ray’s smile. Quick, get some moments for a story and leave, urge Yates’ name comes to mind. Team captain and knowledgeable to be the team’s leader in search of winning games might be good for a few times. George stretches out a friendly hand, a very warm Fred. George apologizes and explains that he usually puts his name in a candle flame before

The Caltech Pucksters strut their stuff in last week’s battle royal against Pierce College. The Pucksters won 4-3, 1-5, 4-1.

But it’s with Murphy’s blessing

COCORAN RESIGNS

by Christopher Juten

Dr. William H. Corcoran will resign from the position of Institute Professor of Chemical Engineering, is soon to leave his post.

Relations and return to full-time teaching and research in the Chemical Engineering department. As the

Dr. William H. Corcoran, new Institute Professor of Chemical Engineering, is soon to leave his post of Vice-President for Institute Relations.

Academic Careers Seminar Proves Interesting

by Sangtae Kim

The Y and the Goome Club cosponsored a career seminar last Wednesday, featuring Professor Richard Dean (Math) and Jim Mayer (APh). The seminar was intended for those interested in academic careers.

Throughout the seminar, four topics dominated the discussion: Academic vs. Industrial Career, Tenure, Financial Support, and Teaching.

Despite the salary differential, both professors felt that the advantages of “being my own boss”, the freedom to “conduct research that interests you”, and the absence of security hassles attracted them toward academic careers.

Of course, getting there is something else, with tenure being the major stumbling block. After seven years with a university, the tenure question must be settled. Caltech, and many other universities, require favorable letters of recommendation (ten for Caltech) from the outside, as well as support from fellow faculty members in the department.

During the “golden age of research”, when money flowed freely, many universities expanded their departments. The

continued on page seven
and, speaking of the RIVET... 

It's that time of year again, and the cloudy promise of "the RIVET are coming" made throughout second term are soon to reach fruition. The editors of the ROT THRIBBING TROVET, therefore, are soliciting material for that fine publication: humor, satire, wit, verse, new lyrics for popular songs (e.g., "Tech's Been Good to Me So Far"), even artistic fare. Also, a large number of cartoons will be needed for the HOVET. Even more than the usual Tech, the THRIBET is made or broken by campus contributions, so please come by Winnett or contact one of the editors about any ideas you have for THRIB HOVING RROBET articles.

--the eds

Resurrect the Flying Club

To the Editors:

My involvement with Space Day as an escort for mission specialist George Nelson gave me an opportunity to find out more about the Club. I believe that it is time for students to be involved in the Flying Club once again. I propose a Tech-sponsored flying program in cooperation with the current Flying Club and PCC. Students would begin by taking the existing ground school course at PCC and then the Flying Club would arrange flight time. It would be fair to participants pick up a fraction of the cost.

Any of your readers are interested, you may sign the statement of support on the wall outside of my room (115 S). Sincerely,

--Ralph Weeks

in the 1960's the Flying Club was started by some aero grad students. It was initially supported by the Institute but it got bigger and bigger, until it was finally turned into a corporation in its own right.

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The California Tech

Volume LXXX Number 28
Friday, May 11, 1979

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Letters

Space Day Kudos

To the Editors:

I hope that I speak for more than just myself when I say thank you to Dr. Jim Mayer, Jim Fruchterman, and Tod Lauer for their efforts with making Space Day possible. As you might recall, last May was Space Day when we had the opportunity to visit JPL, hear lectures on the geology of the moon, talk with shuttle astronauts, and learn about the American space program. I personally spent about twelve hours participating in the various programs and enjoyed every minute of it. Besides getting out of class (thanks to President Murphy), I was able to hear some very interesting speakers talking about their research. We heard Dr. Gene Shoemaker, Dr. Leon Silver, Dr. Al Hibbs, Dr. Bruce Murray, and others, all of whom were exceedingly interesting. It was also exciting to be able to talk to the participants in the program and the six shuttle astronauts during the dinner on the Olive Walk at Mayer's house after the program.

Dr. Mayer, Jim Fruchterman, Tod Lauer and Dr. Leon Silver put a lot of work into the program and I'm sure that they feel it was worth the effort. Hopefully, Space Day will not be the last program of its kind. Caltech is a unique place to get an undergraduate education because of the research that goes on here. Unfortunately, we don't often have time to find out about the various programs, but it gives students a chance to stay excited about science and technology. Too often Techans graduate without retaining a flicker of the enthusiasm they had when they came to Caltech. Events like Space Day give us some time to really get interested in what's going on at Tech and JPL.

Sincerely,

--Mike Nelson

Acts of Apostol Praised

To the Editors:

With the coming of Dr. Apostol's last lecture to this year's Ma 3 class I'd like to take this opportunity to thank him for his time and energy over the past year. Dr. Apostol is one of the few lecturers at Caltech that I actually respect. He is always on time (usually early), always knows the material to be covered in lecture, and is usually able to respond to questions in a helpful manner. For these attributes and many more, I'd like to thank Dr. Apostol.

--A Grateful Student

The Caltech Y........ fly by

Tuesday, May 15, 1979, At Informal Noon Discussion on THE ARMS CONTROL OF BIOLOGICAL AND CHEMICAL WEAPONS with Dr. Matthew Meselson, Sherman Fairchild Distinguished Scholar, in Clubroom 1, Winnett, at noon. Bring a lunch.

Wednesday, May 16, 1979, UPDATE Noon Discussion Series on Power Sources--An Emerging Technology with Dr. R. D. Middleton, Professor of Electrical Engineering will be speaking in Clubroom 1, Winnett, at noon. Bring a lunch.

Wednesday, May 16, 1979, SIGN-UP for a trip to the RENAISSANCE PLEASURE FAIR in agora on Saturday, May 19. The cost will pay for both transportation and ticket.

Thursday, May 17, 1979, THE SHOWD OF TURN, a slide presentation by Donald Lynn, JPL Deputy Director, Encounter Operations Planning for Voyager. At 8:00 pm in Baxter Lecture Hall.

CASTELETS PRESENTS

in his 4th Annual Recital

Saturday, May 19, 8 pm
Sunday, May 20, 2:30 pm
Pasadena Playhouse, Chester

Free admission--no tickets required

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Movie Clone News

Last week ASICT showed a movie whose name was my last initial, and this week we're showing a movie whose characters are supposed to be from my home town, Louisville, Kentucky. Of course, this is all coincidence, the name of the movie is A Wedding, and it is Robert Altman's film about everything that could possibly go wrong before or after a wedding, especially a high-class wedding. The wedding is conducted by a bishop who forgets blessings, the bride's sister is very friendly to everyone, including the groom, and the matirhach of the family dies during the reception. Among other things, this is a pretty funny film. Come see it.

The second of the Cinematograph movies this weekend is a well-known film by a well-known Caltech alum, Frank Capra. The film is Mr. Deeds Goes to Town, and it stars Gary Cooper as a small-town greeting card verse writer who has written millions of dollars. Everyone hates him, trying to get at his money, and he finally decides to share it by losing a million itself. This Oscar-winning comedy also stars Jean Arthur. The film is Hope, and also starring Gary Cooper, this time as a small-town sheriff, who, on the day of his retirement, discovers that a criminal he was after only two ago will return to the town in revenge, on the moon train. Another Oscar-winning film, this has carried a critical acclaim since its release.

--Jon Zingman
**Hockey**

from page one

have high IQ’s."

Reporter: “Do you remember our last championship season?”

George: “Sure do, Tom, locked on that flat. They didn’t expect the brass elbow pads. Had one good boys that year, one of them might even wind up governor of Maryland some day, too, to be a little on the right, right?”

Reporter: “Have anything special worked out for tonight?”

George: “Can’t tell you.”

The reporter decides it best not to ask what the six-pack of race stashed in George’s equipment bag is for, Big Mike Friedman rolls over followed by a clone Chris Friedman. He as if there’s any trouble.

Sarge says no but tells the reporter he’d better leave before the coach comes in for the game pep talk. The reporter hastily backs out and closes the door. As the door closes, Andy Ellman, the team’s craziest layer, holds up the reporter’s shirt.

The story behind the game is well known. A 14-2 regular season brought Tech to first place in the Southern California Collegiate Hockey Association. In the best-two-of-three semifinals, Tech defeated Cal State Northridge in two straight games to blaze into the finals. Pierce College, Tech’s opponents in the finals, skated to second in the league and swept their semifinal matchup against Occidental. Tech had played Pierce four times during the regular season, going 3-1.

Finals were best-two-of-three. Tech won the first of these 4-3, with Andy Gelman supplying a hat trick. The second game was a 5-1 Pierce victory on their home ice in a much closer game than the score indicated.

In five minutes the season’s finale would begin. Fans were crowded into every open space, eyes straining to see the door of Tech’s locker room. Coach Wardan’s pep talk has been going on for two minutes. An explosive noise breaks forth as plaster cracks and the Tech players emerge through the wall. Pushing through the adoring crowd they make their way to the bench. Friedman quickly slips his hockey wallets into his equipment bag.

“Love our fans,” he slyly remarks.

The opening faceoff, clock running, a fast pace, but for the first couple of shifts the passes don’t click and the tenacious play of the Finals is not visible. Then it breaks. Friedman passes up left wing to Gelman, a quick flick across to Bobroff on right wing who gets the puck to Christenson going over the blue line. The shot comes off the boards to the defenseman but the right winger beats him to it 5-1. In an instant the puck is passed back to Christenson who slaps it in. First blood to Tech.

Stunned, Pierce regroups but the hack pack of Christenson, Gellman and Bobroff is hot. On their next two shifts Gellman and Bobroff pick up goals, staking Tech to a 3-0 lead going into the third period.

Pierce isn’t finished; an explosive club, they immediately pick up a goal in the first minute of the third period. The next score is crucial: if Pierce picks up another quick tally it’s 3-2 with plenty of time remaining; if Tech gets it, a 4-1 lead is virtually insurmountable. Tech’s Bardet decides it by scoring with assists from Cullin, Minahan, and Rogers. Pierce begins taking cheap hits and penalties forcing them to play the last ten minutes short-handed.

The game ends 4-1 with the solid defense of Yates, Rogers, Rothnic, Frazak, the offenses, Chael, and outstanding goalie Jim Cascadden doing a tremendous job in keeping Pierce from getting momentum.

The playoff highlights were many: Eric Chafl’s fine goal in sudden death overtime during the semifinals, the hack pack scoring eight of the team’s nine goals during the finals while yielding none, the tenacious play of the Cullin, Minahan, Bardet trio and the Macfarlane, Chobotor, Bratol, Ortle combinations.

All the team wishes to express appreciation for the inspiration and fine coaching of Doc Wardan, who guided the club to the league championship. The club also extends thanks to its loyal fans and to its group supporters: The Athletic Dept., The Alumni Association, GSC ASC, and particularly to L. Bonner, Director of Student Relations, Jim Black of the Alumni Association, and Coach Wardan for helping us meet playoff expenses. See us next year.

---

**KELROF!!**

by Bill Gould

Important KELROF! 24-Hour stay preparations are slated for in coming week. Today is the final sign-up deadline for those interested. Last Wednesday, 25 runners came to a practice workout for a glimpse of what is ahead. There will be a sleep workout Monday, May 15 at 5 pm on the track for those interested.

The Relay will stop at 12:15 to 12:40 Saturday thru Monday. The team will be participating in the San Diego Relays on Saturday May 17, in the gymnasium. Also at stake were the All-Conference. Two other Tech runners have signed up so far, Eric Klumpe, Terry (“Hoyt”) Church, and Alan Boyar, narrowly missed in the All-Conference standing, as they fell short by a handful of votes apiece.

This Monday, the team travels to Sobeoba Springs to compete in the NAIA District III Golf Championship.

---

**Baseball Aced**

by Vic Manzella

The Caltech baseball team ended another tough nine-man season last Tuesday with a disappointing 16-3 loss to Claremont, but the loss was not without any high points for the Beavers. According to catcher Eric Klumpe, Terry (“Hoyt”) Thomason’s knuckleball was quite a spectacle, despite the loss. During the first six innings Thomason gave up only two earned runs, and Claremont batters were constantly going fishing for pitches that seemed to jump away from their bats.

---

**Golf at SCIAC**

by Marie Trujillo

Last Monday, the Caltech golf team competed in the SCIAC Golf Championship at the plush California Country Club. The squad entered the 36-hole match with a slight lead and emerged through the wall ofCapturing fourth place in the conference. Also at stake were individual conference honors.

Excited by their role as spoilers, the Techers played like a team possessed. When the dust finally settled, however, Caltech once again had let a championship get away, and took seventh place.

While team laurels did elude their grasp, there were a few bright spots individually. Charlie Curatalo displayed some brilliant strokes during the first round, Eric Klumpe, Terry (“Hoyt”) Church and Alan Boyar, narrowly missed in the All-Conference standing, as they fell short by a handful of votes apiece.

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**Graduating?**

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**Caltech’s Burger Conference**

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**Specialties**

SHAO MMA, SOUVLAKI-STEAK DELICACIES, BAKLAVA, BOURMA-ARMENIAN PASTRY DESSERTS, ALAPAN-VEGETABLE BURGER WITH DELICIOUS SAUCE WRAPPED IN BIBLE BREAD, SPECIAL SERVED EVERY NIGHT: USUALLY STEAK OR PRIME RIB, RICE PILAF, SALAD, VEGETABLE, AND REFILLS ON SOFT DRINKS AND MILK
by Vic Manzella

Last weekend's District Track Meet at Biola College was quite a battle for the large outdoor track and field programs of NAIA District III. The two top contenders, Azusa Pacific and Whittier-Luthern College, displayed incredible depth and talent in their fight for the championship. But Caltech, which was far from the top, did not have the depth of caliber that its peers possessed, as several team members fell just short of capturing seventh place and gave Caltech a solid eighth place finish among the ten participating teams.

On Friday, junior Bill Gould attempted a very difficult double in the 3000m steeple-chase and the 5000m run. In the steeple-chase, Gould topped his own school record by 15 seconds as he grabbed fifth place in a time of 9:55.9. This was Gould's best performance ever in the event, and he still had enough strength left to run a 16:22 in the 5000m, only a couple of hours later.

In the sprint events, Caltech had a tough time as all three sprinters were bothered by injuries. Mark Morrissey was the one exception, however, as Mark Morrissey managed to qualify for the finals in the 100m dash with a preliminary clocking of 11.4. In another heat, John Hattick ran an even better time of 11.2 but did not qualify. In addition, Caltech scratched from a six team field (and a sure sixth-place finish) in the 110m hurdles due to these injuries. The 110m team, which would have given them later coat the team a tie for seventh place with Redlands and dropped them into eighth at the finish. In the decathlon, bronze medalist Steve Sutala captured ninth place with a total score of 4598 in the grueling two-day event.

On Saturday, Jim Quilliam grabbed the spotlight and became one of two NAIA District III Champions in the 400m dash. Quilliam won this event in a time of 49.0, a time of the season, and he did it running in a lane that was improperly measured and nearly 2 meters too long. In 1984, this time in the 400m was about 48.5, and he continues to approach the qualifying standard for NCAA Nationals.

In the 800m, freshman Lewis Collins came through with an outstanding performance as he finished third in 1:56.5. This was only the second meet this year in which Collins has run the event, but still managed to top the man who has been his own personal best with this effort. Senior Rob Bourret had a tough day in the 1500m run, but he managed a fine 4:01 clocking and a seventh place finish despite his sore legs.

In the final event of the day, the 4x400 yard relay, senior Norm Murray ran a fine first leg, but Lewis Collins and Rob Bourret were too exhausted from their earlier performance to equal their previous best efforts in this event. This was a fine first leg by anchorman Jim Quilliam who was not quite enough to catch Redlands, and Caltech finished fifth in the event in 3:33.3.

This Sunday, Rob Bourret, Jim Quilliam, and Lewis Collins will be running at UCLA's Drake Stadium in the SPA-AAU National Qualifying Meet. They will have another chance at making a final, as the top 8 in this event will qualify for NCAA Division III Nationals. At 11:00 am, Bourret will be running in the 1500m run. At 2:00 pm, Quilliam will run the 400m dash, and at 4:00 pm, Collins will be running in the 800m. This should be an excellent track meet for anyone who can make it down to UCLA.

Enchanting

by Etonio Schroedlu

The Shakespeare Society of America, a group that I have discussed in these pages before, recently finished a one-month international tour of Measure for Measure, which was one of the most enjoyable performances I've seen at their Playhouse in West Hollywood. The humor was aimed at a rather low common denominator (which was quite suitable the night I attended), and by being an undergraduate program, it gives them opportunities to explore other aspects of the classic work. In particular, they gave some excellent readings of the plays in their own language.

Many of the players had been seen on the Globe's stage before, including Director Lane Davies, and Shannon Eubanks, who played Titania. They have appeared in previous productions and have been chosen to play the parts. The Globe's production of Measure for Measure was a remarkable achievement, which I believe is the result of the excellent direction of Paul Deppen, as well as the hard work of the entire cast and crew.

The Globe's production has been greeted with enthusiasm and optimism, and it is hoped that the company will continue to produce Shakespearean plays. The Globe's production of Measure for Measure is an impressive accomplishment, and it is hoped that the company will continue to produce Shakespearean plays. The Globe's production of Measure for Measure is an impressive accomplishment, and it is hoped that the company will continue to produce Shakespearean plays.
Shroud of Turin?

by Mike Nelson

Next Thursday, May 17, the Caltech will be presenting a program on the Shroud of Turin. Don Lynn, JPL Deputy Director, will be giving a slide presentation in Baxter Lecture Hall at 8:00 in the evening.

The program will explore the mysteries of the Shroud of Turin. It is one of the most sacred relics of the Christian church and has baffled scientists for centuries. The Shroud consists of about fourteen feet of linen cloth which bears an anatomically correct image of a crucified man. The Church and thousands of pilgrims who visit it annually believe that the shroud was the burial cloth of Jesus Christ and that the image is his. Scientists have approached the Shroud with two questions in mind: (1) Could the relic actually be from the time of Christ and (2) how was the image on the cloth formed? So far the research done on the Shroud has been rather limited due to the church’s reluctance to expose it to any possible harm.

The results of the research done to date have served to confound and fascinate a great many people. It has been shown that the relic is not some poorly-constructed fraud. References to the Shroud can be traced back some six hundred years and the cloth is like that made in Palestine two thousand years ago.

The nature of the image is the most puzzling aspect of the mystery. There is no evidence that anyone painted the image and indeed the fact that it is so correct anatomically and historically indicates that the image was created by some very unusual process.

Don Lynn has been involved with trying to discover how the face of Christ came to be recorded on the Shroud. He has worked extensively with computer enhancement of pictures coming back from JPL’s planetary probes. About three years ago he became interested in the mystery of the Shroud of Turin. Since then he has used his skills to enhance the few pictures which have been taken of the Shroud. Recently, Lynn was a member of a research team which was able to work directly on the artifact. A number of very interesting experiments were performed on the Shroud in an attempt to explain it. The main questions are still not fully resolved but the results have made the Shroud all the more interesting. On Thursday, Don Lynn will describe his experience with the Shroud and will discuss the latest research on it. An excellent article in Science (July 21, 1978; Volume 201, page 235) provides an overview of the mystery of the Shroud for those who wish to learn something about it before the program.

Thursday’s presentation promises to clear up some of the questions concerning the Shroud and to pose others. Don Lynn’s expertise on this topic should make for a fascinating program on a religious relic which presents a puzzling challenge to modern science.

Right now hundreds of ex-Tech staff are having an incredibly fantastic time in the big city.

Why can’t you?

Because you can’t honestly say ‘I worked for the Tech.”

Remedy this right away. Contact: The California Tech
Suite 107
Winnett Center

We’re the best paying student newspaper on campus.
Well, the Tech didn’t publish me last week. Do you suppose that they’re trying to tell me something? If the last half of the mindless tripe that makes up this article seems a little stale, it’s only because I wrote it last week. It gets harder every week to find something funny to write about. I am usually so busy now that I never know what is going on.

Well, now that Phaedra is over, here’s another way to occupy my spare time. I have become involved in the new Caltech Drama Club, which had its first meeting this week. If you couldn’t make it to the meeting and you are interested, just talk to one of the officers or stop by at our next meeting. And just who are the officers? Well, somewhere else in this paper there should be an article describing our meeting in great detail and containing a full list of all the officers. Don’t believe it; it’s bunkum. But in case any of you are curious, Shavean Gilley is Madame Prez, Jenny Lunt is the Financial Wizard, and Maude is the Scribe, and just about everybody else in the club is one of the officers or committee heads—and of course, Shirley Mearnes is the kingpin, or queenpin behind the whole operation—the eds. I mean, I wouldn’t want to be redundant and repeat myself, or somebody else, by repeating what might appear elsewhere in this paper. I mean, I wouldn’t want to be redundant and repeat ... Deja vu, that feeling you have that you’ve been somewhere before. Oh well, I’m getting away from it, and I do have to sew the neck of my T-shirt closed, so ... here is last week’s vain attempt at humor.

I am told that some very important book says that there is no place in a new novel but writing like this. Well, I really wouldn’t know about that. I just keep handing them in and the Tech keeps publishing them. Sometimes, they seem to have no shortage of space.

So tell me, just what is this fetish that B&G seems to have about thinning the trees? I know they have to be thinned, but I can count the leaves on some of the trees on campus and never get to a number that’s big enough that I have to use my toes. And while we’re on the subject of trees, I have it on good authority that the trees along that court between Kerckhoff, Armit, and North Mudd are known as the “Phallo-Bushes” to certain individuals in Southern California. It seems that great distances have been traveled by these, and other individuals, so that they could shake these bushes while under the influence of certain illegal substances. Don’t ask me, I’m just reporting what I was told. Even if it isn’t true, it is interesting.

Can anyone tell me what Space Day was? Not that I mind getting out of Thursday classes; it’s just that I don’t have any in the afternoon anyway so that’s no real advantage.

Anyone who says nothing ever happens around here has obviously never been here on Politi’s Constitution Day. It’s not every day that a wall is removed from the staircase that it used to support or that a stair rail is bent and broken in three places in the process of removing it from a wall. I mean, most people would use a sledgehammer. And so many chairs were destroyed that our house will be eating in shifts until we can get some more. But I’m sure that you will all hear more about Wednesday night’s activities than I could possibly fit into my column, Wednesday night might even live in infamy.

This was going to be longer, subject of trees just went sour, so ... —Duncan G. Mahaney

### Random Numbers

We need You
(If You Can’t Act)
Auditions for The Fantasies; a comedy by Edmond Rostand, will take place in Baxter Lecture Hall on Sunday, May 20 from 2:50-4:00. Students, faculty, and staff are invited to try out.

The play, to be directed by Shirley Mearnes, will be presented in Dunby Gardens on the last two weekends in July. For those of you unfamiliar with the play, you may help to know that the musical The Fantastics was based on it.

There are six speaking parts in the show, five men and one woman, and ten other people will be needed as “chorus.” People are also needed for crew, set-building, publicity, working on costumes, ushers, etc. If you have any questions, please call Flora at x2157.

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### Chemical Warfare Discussion

by Vic Manzella

Does the idea of chemical weapon stockpiles in the United States concern you? Are you aware of the possibility of nerve gas spills in populated areas? In a time when the problems of managing radioactive materials loom over us, do you think chemical weapons (especially nerve gases) are virtually forgotten.

Fortunately, there are people still working on the control and eventual elimination of these weapons, among them a visiting professor here at Caltech’s Biology Department, Dr. Meselson.

Dr. Meselson is a Sherman Fairchild Distinguished Scholar, and he is currently the Thomas Dudley Cabot Professor of Natural Sciences at Harvard University. During the Kennedy Administration he became consultant for chemical and Biological Weapons with the US Arms Control and Disarmament Agency in Washington, D.C. He remained in this role until 1973, and he was successful in bringing about a treaty at Geneva in 1972 under the Nixon Administration for the total disarmament of biological weapons. Earlier, the US had been developing such weapons. But despite this success at eliminating biological weapons, chemical weapon stockpiles still exist in the United States and the Soviet Union. Currently, a Geneva Protocol exists which forbids the use of chemical weapons except for their use by an aggressor. However, this is not a satisfactory situation, so Dr. Meselson and others are now working on a treaty for total disarmament of chemical weapons.

You are invited and encouraged to attend a Noon Discussion sponsored by the Caltech Arms Control and Disarmament Club, and he was successful in bringing about a treaty at Geneva in 1972 under the Nixon Administration for the total disarmament of biological weapons. Earlier, the US had been developing such weapons. But despite this success at eliminating biological weapons, chemical weapon stockpiles still exist in the United States and the Soviet Union. Currently, a Geneva Protocol exists which forbids the use of chemical weapons except for their use by an aggressor. However, this is not a satisfactory situation, so Dr. Meselson and others are now working on a treaty for total disarmament of chemical weapons.

You are invited and encouraged to attend a Noon Discussion sponsored by the Caltech Arms Control and Disarmament Club, and you are welcome to bring your lunch.

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### The Electric Poo-Poo Cushion

Mass energy varies as

\[ m \sim \frac{m_0 c^2}{\sqrt{1 - v^2}} \]

or

\[ m \sim \frac{m_0 c^2}{1 - \frac{v^2}{c^2}} \sim m_0 c^2 \left(1 + \frac{v^2}{c^2}\right) \]

for small velocities. So that the Newtonian kinetic energy appears registered in the mass energy. The gravitational potential energy change also appears registered in the mass energy. Thus appears the concept

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**THE ELECTRIC POOP-CUSHION**

**Mass energy is a continuous variable, and properly connected, may be employed as an energy storage device.**

**Mass energy storage cells employing kinetic mode storage, such as gyres, are common. Mass energy storage cells employing potential mode storage, such as lake Hiyasu, are common.**

The ELECTRIC POOP-CUSHION is a project to make compact, global, electrodynamic, coherently pumped, potential mode mass energy storage cell. Being electromagnetically coupled, it is useful with electromagnetically motivated vehicles.

Realization principles need research & development work. Openings projected for sometime this summer, interviews May 23, information please ask your placement office.

**This is the time for da Kine!**

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**Page Six**

**TH**E CALIFORNIA TECH

**Friday, May 11, 1979**

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**INSIDE**

It was the last Sunday in April. About fifteen of us gathered, but only one, living room of "Madison House"—where the grassroom monthly, New Pasadena, is conceived, printed, and distributed. The printing press awaits in the garage—ready for big things. In the house, up the dimly-lit staircase, there is the workroom where we do the layout and typing, the living and dining area, where we hold meetings and collate the magazine. Meanwhile, this plate serves as bodega for seven people. At Madison House, politics is more than going to the polls or election day, it is a way of life. The magazine is run collectively. People bring up ideas, news, and suggestions for articles to the group for discussion. In this way, involvement is encouraged and participation is guaranteed. Our philosophy at New Pasadena is that the magazine improves as more people get involved. Sometimes this approach can run into problems, as Janet Gray points out: "A large proportion of the people involved in New Pasadena have very strong personalities. They have a lot of knowledge and have a high degree of involvement. There are a lot of things they are angry about. It is hard to get business done because they all have opinions on everything. It's very easy for discussions to get out of hand. But this is good in a way because this is what keeps people going, and this is what the spark is." Perhaps one of the angry persons of whom Janet was referring is Tim Brick. Sulking in his chair, he seemed like a leopard waiting to pounce on anyone who made a foolish, ill-advised move. Indeed, Brick has done extensive muckraking of California politics, especially concerning the utilities. He has
inside to a lot of shady dealings between government and big utilities that just aren't that obvious. That's why The New Pasadena, published every Saturday by the Brown and Indonesian LNG (natural gas) utility. His contacts both within the local community and with the media has made him a natural choice for the newly formed Pasadena Utility Advisory Committee. Tim has a broad international outlook on Pasadena:

"In comparison to the miracle (a local weekly), which has been providing some very alternative coverage to the News, The New Pasadena gives me a long-term analytical treatment of issues. We concentrate on redevelopment, utility, and schools, using the trends going on there as an immediate document..."

Also, The New Pasadena represents a certain type of seed money. The whole thing is laid down in journalism: the contents is about objectivity. It's still a reactionary thing in how you report something when it happens, whereas ever since it ran, The New Pasadena has tried to answer questions to set political times. And that's a whole different philosophy. Also, it's a different kind of journalism. The whole thing is laid down in journalism: the contents is about objectivity. It's still a reactionary thing in how you report something when it happens, whereas ever since it ran, The New Pasadena has tried to answer questions to set political times. And that's a whole different philosophy. Also, it's a different kind of journalism. The whole thing is laid down in journalism: the contents is about objectivity. It's still a reactionary thing in how you report something when it happens, whereas ever since it ran, The New Pasadena has tried to answer questions to set political times. And that's a whole different philosophy. Also, it's a different kind of journalism. The whole..."
**The California Tech**

**Friday, May 11, 1979**

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**PUBLIC CORRESPONDENCE
PRIVATE NOTICES**

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**public service**

Tute Tute!
The list of Biology tutorials (Bs 23) to be offered next term is now available outside the Biology Office, 156 Church, and outside Rm. 12, Beckman Labs.
The tutorials are staffed by Biology faculty, postdocs, and grad students. They provide an opportunity for learning through personal contact in a small group situation and cover a broad range of subjects. Bs 23 may be taken for up to 6 units, grading is pass/fail. For details, see Ron Konopka, Rm. 12, Beckman Labs.

Rendezvous
With Drama
here will be a meeting of the officers of the Drama Club, and anyone else interested at 8:00pm Tuesday, May 15th, in Churchroom 2 of the Winnett Student Center.

Another Exam!!!
Arrangements for Physical Examinations for students for Graduate School, Transfers, Permanent and/or Summer Employment, Class II Driver’s Licence, etc., may be made at the Young Health Center. These examinations will be done by Nurse Practitioners Tuesday–Friday mornings by appointment. Please call x2994 for further information.

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**music**

Ever Fly Jaques
The Caltech Glee Clubs will present songs from “Paint Your Wagon” and a medley of songs from the ‘40s in their Spring Jubilee. This songfest will be in Beckman Auditorium on Saturday, May 12 at 8 pm. Admission: $3.60 for CIT/JPL faculty and staff, and free for Caltech students. For information call x1652.

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**I Hear A Waltz**

A violinist is holding a waltz. That’s right, a real live waltz. Strauss and Lehár will roll off the balcany of Dabeys Lounge tonight from 8:30 pm until whenever. Come see what surprises we have for you. There’ll be refreshments for all. Not only that, it’s free and open to all staff, faculty, and students. Formal or semiformal dres suggested.

And A Violin
Violinist Kathleen Lenski will perform on Tuesday, May 15, at 8 pm in Ramo Auditorium.
Her program will include Mozart’s “Sonata in E Flat Major, K 475”; Schubert’s “Rondo in A Major for Violin and Piano”; Brahms’ “Sonata No. 1 in E Minor, op. 120”; Paganini’s “Sonata—Theme and Variations in A Major for Violin and Piano”; and Kreisler’s “La Gitana”, “Liebesleid”, and “Liebesfreud”. Ms. Lenski will be accompanied by pianist Lincoln Mayorga.

A graduate of the Juilliard School where she was a student of Oscar Shumsky, Kathleen Lenski has been playing the violin since the age of two. She was a performing member of the first Heifetz Master Class in 1958. Her honors include the Second Prize in the 1960 Paganini Competition, the Debut Award of the Young Musicians Foundation in Los Angeles and the Diploma of Highest Achievement from the Accademia Chigiana in Siena, Italy.

For more information, phone the ticket office at 793–7043.

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**I Won’t Quit ‘Til I’m A Star**

George Benson, responsible for the biggest-selling jazz album of all time, “Breezin’”, and whose newest album, “Living Inside Your Love”, has just been released, will appear in two performances only at Bridges Auditorium on the campus of the Claremont Colleges on Sunday, May 13 at 6:30pm and 9:45pm. The band Sea Wind will open the concert. Tickets for the May 13 concert are now available at Mutual Agencies, Bridges Box Office at 4th & College in Claremont, and by phone at (714) 621–8032.

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**events**

The AOh Fomral (actually semi-formal) will be a week from today. Those who haven’t bought a banquet and the band will be “Mad.” Dinner will start at 7:30pm. Sign-ups will be coming down this Wednesday, though, so you’d better hurry.

**Industrial Development**

The Industrial Relations Center of Caltech will present 11 business development courses during May. Three general management seminars “Assessment and Planning” (May 1-2), “Effective Time Management” (May 14-15), 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 Management” (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 EIRSA 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) 795–6811, extension 104.

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**G & C**

So Ya Wanna Be In Pictures, Eh?
The well-known art film director, “El Busto,” is at Caltech and is looking for people to appear in his latest movie. Most needed are two women with access to nunn’s habits and who get along well with large, hairy animals. Contact Armando Howard, Lloyd 129, 578–9344.

Free Meal!
The Caltech/JPL Toastmasters’ Club announces a membership drive. The club is dedicated to giving members experience in speaking to groups. At each meeting, members give prepared and impromptu speeches over dinner (which is free for a first-time guest), and each speaker is then constructively evaluated. They meet at JPL’s executive dining room in the main cafeteria, at 5:15pm on the second and fourth Wednesdays of each month.

Club members are a varied group, including scientists and technicians, secretaries, and managers. Students are welcome. Anyone interested is invited to call Nancy Kosowicz (x2087) or Tom McDonough (795–0147, afternoons and evenings).

Pick Up Your Raped-Over T-Shirts
The "TRUTH SHALL RAPE YOU OVER" T-shirts have been in for three weeks. Please pick up your shirt if you ordered one by noon, Friday, May 18. All shirts not “claimed” will be sold to the people on the waiting list. Contact Izzy Lewis, 136 Page.

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**private**

BGDA — No gun, maybe, but you have nuclear weaponry. No suit needed, space isn’t hostile. No need to travel, space is everywhere. Know thyself! And know space will keep calling.

Of You’re Getting Ahead of Him!
Will do nothing about anything. — Bubble Gunshot Defective Agency

OCTAGON is coming and there’s nothing you can do about it.

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**help wanted**

Full or part-time position for man or woman, $1500 for 100 outside educational sales demonstrations. No previous sale experience necessary. Flexible hours. Call Mr. Kroncke, 497–0288. (L-78)

HELP WANTED
TEACHERS—Hundreds of opening
Universal Teachers; Box 8096; P.O.
97208.

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**for sale**

House, unfurnished, 2 Bedrooms w/ comm. en.


Catalog of unique, nostalgic, and specialty items—many collectible items with good investment possibilities. Items include: comic stamps, curios, artwork, comic books, old records, old magazine photos, books, buttons, all many. Send 50¢ (deems from first order) to: Frank Lust PO Box 548; Allwood Station Clifton, NJ 07012.

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