Ch-Ch Changes Planned for Ph 1

by Ray Beausoleil

Twenty generations of Caltech students will be familiar with "Ph 1 abc: Kinematics, Particle Mechanics, and Electric Forces." But that is about to change, as the Institute’s required core courses. For the past ten years, the course has been offered on two tracks, A and B. Track B supposedly assumes a lesser amount of previous preparation in mathematics and physics, and initially proceeds more rapidly than track A. A test of four instructors and nine teaching assistants (three of whom are undergraduates this year) keep this mobility flowing. This fall, as was decided at the Faculty Board meeting last spring, future freshmen will have their tracks as history. Beginning with the 1979–80 pool year, the following item will appear in the catalog as the final course of undergraduate physics courses:

PH abc. Classical Mechanics and Electromagnetism. 9 units (4-0-5) first, second and third term. The first year of a two-year course in introductory classical and modern physics. Topics covered include the mechanics and dynamics of particles and rigid bodies, harmonic motion, electricity and magnetism, and special relativity. Emphasis is placed upon the application of the fundamental principles to the solution of problems. Graded: Pass/Fail. Instructor: Goodstein.*

That’s right: one instructor, Dr. David Goodstein, and no tracks. Of course, these changes will require subsequent revisions in "Ph 2 abc: Electromagnetism and Quantum Mechanics." For the academic year 1980–81. The physics department, under the determined and enthusiastic guidance of Division Chairman Dr. Robbie Vogt, hopes to involve as many faculty as many as many as possible in the review and revision process. They promise that under no circumstances will the sum-total scope of Ph 1 and Ph 2 be reduced from that of the present.

Dr. Goodstein plans to use the first two volumes of the Berkeley Physics Course as a basis for Ph 1. Vectorial fields will be gradually introduced in mechanics; before electromagnetism begins, two or three weeks will be dedicated to the necessary vector calculus. That topic will not have been covered in Math 1 yet, so we’ll have to teach them everything about it.” In general, Dr. Goodstein feels that Ph 1 and Ph 2 will be somewhat more coordinated next year than in the past. “I will be aware of what has been taught in the freshman math courses,” he said in an interview Wednesday.

In 1979–80, Ph 1 students will be able to choose one of 11-12 recitation sections appropriate to their familiarity with and commitment to physics. As such as possible, faculty and highly qualified students will be actively recruited to TA the recitations (about two sections per TA). Graduate students will grade homework so that the TA’s can dedicate their time to preparation.

Dr. David Politzer is in charge of the teaching assistants, and will himself lead two sections for “specialists” (those planning to be physics majors). At this point in time, Dr. Robert Leighton and Dr. Jerry Pine are also slated to be section instructors. (Dr. Pine is presently on leave; he will return to Caltech in the fall to continued on page seven)

Caltech Track Ahead of the Pack

by Vic Manzella

A smog-laden sky caused second thoughts last Saturday about quality performances on the Caltech track. However, several outstanding showings gave the Caltech track team a three-fold triumph in a quadrangular meet involving LaVerne, LAPD, and Redlands. In the 400m relay, Monrissel, Blaustein, and Quilliam recorded a time at 44.1, Caltech’s best such performance since 1974. With improved handoffs this team could place well in the District Meet next week. The 100m relay team of Murray, Collins, Brouet, and Quilliam beat out Redlands with a winning time of 30.5, which could give them a place in the District Meet also.

Individual performances were highlighted by a 49.5 in the 400m dash by Whitman transfer ace Jim Quilliam. This was Quilliam’s best performance of the season, and he is still determined to achieve a clocking of 48.5, which would qualify him for the NCAA Division III Nationals. (Such a mark would also give “Q” possession of the school record in this event). Senior speedster Norm Murray, who has been troubled with injuries for some time, came back with a vengeance in the 200m dash. He ran a personal best of 21.6, a mark that is sure to improve with the removal of the injury. In the 110m hurdles, senior Dave Burton ran a 15.1, also a personal best and an indication of his improving form.

Coolant System Accident Worst Ever

by Lucidityes

On the night of Tuesday, April 24, 1979, one of the worst nuclear accidents in the history struck 25-yard Pool at Caltech. The total damage at the site will be estimated at $50 million. According to the preliminary evidence indicates that many frequent batters have been overestimated and the hazard of radioactive materials have been seriously underestimated. The accident occurred during Monday night, and then during the following days. For a brief moment, it seemed that the world was at an end. However, it is believed that the coolant was lost, leading to the malfunctioning of the system. The coolant was used to control the water which filled the pool. The valve seemed to be functioning properly, but in the extremely fast-breaking sequence of events during the 78 hours in which the situation developed, in the catastrophic last 12 hours during which the loss of coolant suddenly occurred, it was impossible to tell what happened and how the valve was opened.

Since the accident rumors have circulated that the Twenty-Five Yard Pool had been experiencing trouble for some time, that the automatic water handling system had never been properly tested and that operator error cannot be ruled out. But to some usually well-informed observers it looked like the work of saboteurs (perhaps the East Germans?). Based on this last suggestion, steps were quickly taken to recover the lost water (see announcement elsewhere in this issue).

Experts from the California Institute of Technology Athletic Department and Central Plant, battling to bring the situation under control, have assured the public that the situation is stable and they are endeavoring to release as little water into the environment as possible. They emphasize that low-level copper exposure will hurt anyone. Senior AAU officials rushed to the scene to monitor the cleanup operations have complained of a lack of cooperation on the part of the Athletic Department and do not seem as confident that the situation is well in hand. Meanwhile California’s Governor Brown recommended that all pools which are designed to hold water, as is the Twenty-Five Yard Pool at Caltech, be immediately drained until the official report detailing the causes of the Twenty-Five Yard Pool disaster is released. Meanwhile President Martin Goldberger has issued an order advising pregnant women and school children not to swim in Twenty-Five Yard Pool or use the diving boards until it has been certified that water is again safely contained in Twenty-Five Yard Pool. No one can say, with confidence, when this will occur, continued on page seven

Photo by Al Kliner

Stan Cohn, Caltech’s latest living legend, poses in front of the notes that made him a legend to last a lifetime.
Letters

Anti-Nuke Rebultal

To the Editor:

In his article, The Apathy Syndrome, Carl Lydluck makes it seem that it's up to the technological elite to correctly inform politicians lead astray by "misinformed" anti-nuclear activists. Quite the contrary. Tchers must first abandon their elitist posture and broaden their awareness of the social, political, and economic realities that control their lives.

For example, the problem with nuclear energy is just not technological. There are also very real economic and political considerations that really need to be investigated. Alternatives such as solar energy should be given serious attention.

Lydluck's comments betray a rather naive understanding of the anti-nuclear movement. It's not Jerry Brown and the China Syndrome. It's comprised of a coalition of people ranging from scientists who believe that the nuclear energy issue is a manifestation of some very fundamental flaws in society.

A good anti-nuclear article to read is in "The New Yorker" (April 23) by Dr. Barry Commoner. A more extensive treatment of the subject is given in his new book, The Politics of Energy, which will be released on May 9.

-Sophia Norman

36 Corrects Misminer

To the Editors:

Due to recent events and misconstructions among elements of the Tech community, I find myself writing to correct a minor oversight of catastrophic proportions. I refer to the title of my article of two weeks ago in the Tech which illusorized John Avery's scheme for world conquest (and it's working--doubtly y'all have seen the missile silo being constructed outside Jim Mayer's office). I was inadvertently referred to as Agent 36. I am not, was not, and never will be an "agent", I am plain old "36", no "agent", "spy", or "6 times 6 is" appended. For purists, the correct pronunciation is with a rather strung-out drawl, as in "...thirty-six-eek...". Picture Clint Walker as he steps off his trusty steed, spits a blob of tobacco, says, "S-S-Spoc...!

Nothing to it. Fully two people have referred to me as Agent 36, and I just say "You just want to be Don Adams". People who can fuss about putting a space between "Cal" and "tech" will understand my situation. I'm sure.

My apologies to both Saga and France for my hasty error with respect to the word "merde". To France, I apologize for confusing the gender. To Saga, I apologize for misspelling their name.

Sincerely,

36

[But wasn't Don Adams Agent 86? And do you really look like Don Adams with 50 missing--ed.]

—Robert Tajima

Commentary

Please Don't Beat the Daisies

To the Editors:

Some people have characterized Tech's Rahman unreeling Philistines who never think about truth, beauty, etc., but only about cold, grab, and eat. I would like to say for the record that I put no credence in this characterization. It's just that Techers do not let higher feelings interfere with logical thought processes.

As an example, and a prime one at that, I direct your attention to the Thorpe pond site. Some illogical landscaper, obviously engrossed in his concept of beauty and aesthetics and what-not, designed and built the Thorpe site with curves paths. But any true Techer knows that we live in a very close approximation of Euclidean space; and in Euclidean space, the shortest distance between two points is a straight line. So, naturally all the students on the way to class merely cast across the curved paths, neatly saving perhaps twenty steps in a trek of several hundred. Never mind the flowers and everything that get pouted into the dirt; never mind the hapless B&G guitars who vainly replant in that area (you'd think, after we mashed down each new set of flowers, that they would realize the futility of it all); after all, efficiency is more important than beauty, and besides, if God had made a straight road, he'd've made it straight. They'd have made us permanently drunk. I suppose the sensible thing to do would be to pave over those beaten dirt paths, in accordance to logic (or to Techers; not quite the same thing), but no, they won't do that; they'll probably go on trying to grow pretty plants there, with no better reason than that they're pretty. Making the campus look nice and all that. Well, good luck to them.

They'll need it.

—Bruce Miller

The Caltech Y......fly by

Saturday, April 28, Trio to WOMEN'S PERSPECTIVES: History, Art, Drama, conference sponsored by the Humanities Faculty Development Program at Claremont Graduate School. Leaving from Winnett at 7:45 am. The program lasts until 4:30 pm. The $25.00 cost covers transportation and registration.

Monday, May 1, SPOTLIGHT, show featuring Mr. Albert Ravnahl speaking on THE PEOPLE'S REPUBLIC OF CHINA: FEEDING THE HUNGRY GIANT. Mr. Ravnahl is an American University Field Staff speciaist in Agriculture, public health, and nutrition. The program will be at 7:30 pm at Winnett Lounge.

Wednesday, May 2, UPDATE NOON DISCUSSION SERIES with Dr. Ricardo Garcia, Professor of Physics, speaking on "The use of Computers in Undergraduate Physics Courses" at noon in Choproom. Bring your lunch.

Wednesday, May 2, CAREER COUNSELING SEMINAR on Career in Academia with Dr. Richard Dean '45, Professor of Math, and Dr James Mayer, Professor of Applied Physics and Electrical Engineering at 7:30 in the Y Lounge. Co-sponsored by the Career and the Student Council.

Friday, May 4, NOON CONCERT with NO MO SNO with Rock Howard, J.C. Collins, Bill Farr, Janne Richter, Steve Quansel and Rodney Katty. Presenting rock on the Quad at noon. Bring your lunch. The concert will be in Winnett in case of rain.

CIT/JPL faculty & staff: $4.95 Gen. Adm. CIT students $4.40 or non-CIT students $6.00. Tickets available at Caltech Ticket Office (332-92) at Mihljan & Lura St. Charge to VISA or MASTER CHARGE by phoning ext. 1652.

The Caltech Y......fly by

CALTECH PRESENTS

SOPHANO

JESSIE NORMAN

SONGS BY NAOMI, SCHUMANN, POULENC, AND BORIS.

WED., MAY 28, 8 PM

BECKMAN AUDITORIUM

...memorizing—New York Times... "...beautiful, refined, L'Espresso..."..."...simply perfect"—San Francisco Examiner

RUSH TICKETS for CIT STUDENTS at $2.00 each are available NOW. CIT/JPL faculty & staff $6.10, 7-20, 6-30. Tickets available at Caltech Ticket Office (332-92) at Mihljan & Lura St. Charge to VISA or MASTER CHARGE by phoning ext. 1652.

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ASCIT ***

MOVIE

Friday Night

7:30 & 10:00

ASCIT Members $100 Others $100

Baxter Lecture Hall

CLINT EASTWOOD

THE OUTLAW

JOSEY WALES

Next Week

Z

CALTECH PRESENTS

SOPHANO

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The California Tech

Volume XXXI

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Random Numbers

I can’t believe it. The Tech has finally stooped so low as to send out little slips of paper with article assignments on them. They also included a little notice to the effect that I should show up at a meeting to be assigned articles. Well, assigning this column to me is like telling a Hellenic baboon to the, chances are its going to kick apples regardless of what we say. And the last straw was a little note telling me to make a fool out of myself and write something about the pre-frosh gals. Well, when I make a fool out of myself, it will either be at my own volition or through my own failings, not at someone else’s behest. And as for the pre-frosh females, while that was going to be part of my column this week, this column is mainly a product of my experiences and attitudes and I don’t like being told what I am supposed to write about from my feelings and actions. I have also heard so much about the pre-frosh females that I am really starting to get tired of the topic.

The Tech is not my entire life either. I am involved fairly heavily in the productions that are being produced at Caltech by the drama department that I feelly getting the recognition but deserve. The result of this is that I have spent a lot of my time lately working on Phaedra, the Spectre Productions play that opened last Friday night. Of course, this meant that I didn’t spend a great deal of time with anybody, much less pre-frosh females. How are I supposed to write about them when I only got to talk to one for any significant time period (7 mins.) and when any one of them was generally surrounded by a dozen other tech guys, all talking at once.

Even though this is somewhat like beating on a dead horse, I suppose that I could rehash the value of their visit to the campus. Of course, they didn’t get a very accurate view of “real life” at Caltech but at least they had a chance to talk to Techers and get some idea of what they are going to be faced with in terms of an overabundance of male company. I will say that it is a pity that we can’t get all the pre-frosh here at some time or other. I think this might help people to decide whether or not they want to come here if they could spend some time in classes and in the houses. I did visit Tech before I decided to come here but I was only able to visit one class and while it probably wouldn’t have made any difference in my case, it might have made a difference in someone else’s decision if they had been able to come to the campus for a couple of days. Well, I’m not going to worry about what the pre-frosh females thought of Caltech, but I am kind of curious about what Caltech thought about the pre-frosh females. And I am also going to be interested in the results of the experiment produces. I have a hunch that we may have turned off as many as we turned on. Of course I hope I’m wrong and that they’ll all come here next year but we should view the situation realistically.

Hey you guys, the student attendance at Phaedra last weekend was truly pitiful. I think the only people there were the ushers. It really is a good show and it generally gets over by about ten so there is still time if you insist on going out afterwards. Phaedra can be seen this Friday and Saturday and next weekend as well at 8 pm. It is well worth seeing. It has sex, violence, and sophistication. What more could you want from family entertainment?

-Duncan G. Mahoney

Coffeehouse Answers Back

To the Editors:
   We’d like to take this opportunity to get some free advertising by replying to last week’s letter by Bruce Miller about the Coffeehouse. Simply, we changed the hours so we could get to bed earlier. With our new, earlier bedtimes, we’re healthier, more alert, and ready for our morning classes. (How many would go to if you stayed up till 2:30am every night?)
   As for catering to our Beavers, the earlier hours have not had much effect on volume; we’re serving just as many customers per night as we did last term. Some OS students find that the earlier opening makes the Coffeehouse a convenient place for dinner.
   Finally, we’d like to dispel the rumor that ASCIT subsidizes us. ASCIT can’t afford to subsidize us significantly. (See the front page of last week’s Tech.) If they give us $100 a term, we could lower prices by a whopping 1%. Oh, by the way, the library closes at 1am, too.

The Managers

Investment Committee Gets Organized

by Sangsae Kim

The Student Investment Committee has almost finished the organizational details, and will be in business within the next few weeks. The By-Laws have already been drafted, and will be available by the time this hits print.

None of the $50,000 has been invested yet. The next meeting will be this Thursday, May 3, in the Board of Trustees’ Room and students are encouraged to attend. Even though the final investment decisions are made by the committee, these decisions will reflect the input of others present at these meetings.

For more information, contact Chairman Wally Walter, Secretary Jim Angel, or any of the other committee members Tony Connelly, Mark Fischer, Grace Mah, Les Niles, Arley Anderson, Jeff Erikson, and Bernd Troitzke.

How to find a summer job.

Talk to Manpower. We’ve got summer job opportunities for temporary workers. In factories, ware-

houses, stores...indoors and outdoors.

Work as much as you want, as little as it’s up to you.

There’s a Manpower office almost anywhere you’re spending the summer. Stop in and we’ll plan a job schedule for you.

CINEMA TECH Saturday 7:30
Baxter Techers $1
Others $2

************ On the Waterfront
The Point

************ Next week:
The Wizard of Oz
Willy Wonka

CALTECH PRESENTS

THE NEW SHAKESPEARE COMPANY OF SAN FRANCISCO
in contemporary productions of

"MACBETH"
"TWELFTH NIGHT"

FRIDAY, MAY 4, 8 PM
SATURDAY, MAY 5, 8 PM

...an "extraordinary company of dedicated artists, driven by genius and Spartan disciplines"

Beckman Auditorium
Los Angeles Times

RUSH TICKETS for CIT STUDENTS at $2.00 each are available NOW. CIT/JPL faculty &
staff, 7/20, 6:30 to 5:40. Tickets at Caltech Ticket Office (332-92) at Michigan & Luna St. Charge
to VISA or MASTER CHARGE by phoning ext. 1652.

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Graduating?

Don’t let your years at Tech go by without experiencing

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Buy Caltech Cards and save 20%

SPECIALTIES
SHAOINA, SOULAKI–STEAK DELICACIES
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PASTRY DESSERTS
FALAFEL–VEGETABLE BURGER &
CHICKEN BURGER WRAPPED IN BIBLE BREAD
SPECIAL SERVED EVERY NIGHT: USUALLY STEAK OR PRIME RIB, RICE PILAF, SALAD, VEGETABLE, AND REFILLS ON SOFT DRINKS AND MILK
The Sleeping Giant is Waking
by John Faughnan

Albert Ravenholt, a member of the American University Field Staff and a respected expert in East Asian studies, will be at Caltech on Monday, April 30, at 7:30 pm in Winnett Center.

Mr. Ravenholt is coming as a guest of the Caltech Y's Student Union; his presentation will be related to his work on Chinese agricultural problems and potential. A journalist with an extensive background of studies in Far Eastern history and the Chinese language, Mr. Ravenholt has written for Foreign Affairs, The Chicago Daily News, foreign service, and other magazines, in addition to his regular "AUFS Reports."

Ethnic music and dance will be performed by Ashanti, Urana, the Korean Traditional Music and Dance Company, and Sotos Kappas in "An Evening of Four Continents" tonight, April 27, at 8 pm in Beckman Auditorium.

Ashanti is an African drum and dance troupe under the direction of Kwasi Badu, a master drummer from Ghana. Ashanti will perform popular nightclub music, ceremonial, and religious music. The most important drums used are the two Atumpan, or talking drums, so called because they can duplicate the pitches and rhythms of the tonal language of the Ashanti tribe.

Urana is from South America, and is actually the name of a tribe of Indians in the Andes. In Quechua, "runa" means "people." Urana will play typical South American instruments: the charango, guitar, bombo, leguero, quena, maraca, cajon, and bongo.

The Korean Traditional Music and Dance Company, directed by Don Kim, will perform the Jango-go Dance, a solo on the ta kum, a drum dance called the Buk Chum, a folk song accompanied by the kiaumok, and, finally, an elaborate and colorful fan dance.

From Greece will be Sotos Kappas, playing guitar and bouzouki, with a group of musicians, singers, and dancers, performing modern popular music from their country. The songs are very rhythmic, their meters being derived from traditional Greek folk dance, such as the syrtaki seen in the movies "Zorba the Greek" and "Never on Sunday."

Tickets for "An Evening of Four Continents" are available now at the Caltech Ticket Office. For more information, phone 793-7043.

Soprano Jessye Norman will perform on Wednesday, May 2, at 8 pm in Caltech's Beckman Auditorium. Her program will include Haydn's Cantata for Soprano and Piano, "Arianna a Naxos"; "Frauenlieb und Leben," Opus 42, by Schumann; "Tu Vois le Feu du Soir" and "La Fiancee et le Feu" by Poulenc; and five songs by Brahms.

Tickets for this recital are on sale now at all Mutual and Ticketron agencies and at the Caltech Ticket Office. Phone (213)793-7043 for more information.

Sir Toby Belch reveals his natural state in a scene from "Twelfth Night." The Nea Shakespeare Company of San Francisco will perform "Macbeth" on Friday, May 4, and "Twelfth Night" on Saturday, May 5, in Caltech's Beckman Auditorium. Both performances will be at 8 pm. Directed by Margot Roma, this company offers contemporary productions of Shakespeare's plays. Tickets are on sale now at all Mutual and Ticketron agencies, and at the Caltech Ticket Office. For information about student and group discounts, phone (213)793-7043.

Tashi will perform contemporary chamber music on Saturday, April 28, at 8 pm in Beckman Auditorium.

The program will be the Piano Trio in G Major by Mozart, "Quartet for the End Time" by Messiaen; and "Tashi Quartet" by Peter Lieberwen, written for this ensemble during 1978 and the first months of this year.

Tashi is the collective name for pianist Peter Serkin, violinist Richard Stoltzman, and clarinetist Richard Stoltzman. "Tashi" means "good fortune" in Tibetan. Serkin has appeared with most of the world's major symphony orchestras and in recitals around the world. Stoltzman has appeared with the Amadeus, Cleveland, Guarneri, Vermeer, and Tokyo Quartets, and the Beaux Arts Trio.

Tickets for this concert are on sale now at the Caltech Ticket Office. For information, phone 793-7043.

at the Juilliard School, won first prize in the 1973 Vianna da Matta International Violin Competition in Lisbon. She has been heard with the Lincoln Center Chamber Music Society in New York, Boston, and Washington, D.C. Fred Sherry studied at the Juilliard School with Leonard Rose and made his New York debut in 1969. He is a founding member of Speculum Musicae, one of the leading groups devoted to new music. Richard Stoltzman has appeared frequently as soloist with major orchestras and in recitals and has performed as guest artist with the Amadeus, Cleveland, Guarneri, Vermeer, and Tokyo Quartets, and the Beaux Arts Trio.

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Tickets for this concert are on sale now at the Caltech Ticket Office. For information, phone 793-7043.
Baxter Showing New Exhibit

A new exhibition, "Bruce Richards: A Selection of Paintings and Watercolors," opens Thursday, April 26, in Caltech's Baxter Art Gallery. It is the first individual museum presentation of this young Californian's art work.

According to Michael Smith, director of the Caltech gallery, Richards' simple straightforward depictions about color, form, and texture at first glance seem to project artists' traditional use of line by incorporating literal asterisks, such as rope and tar, to describe the paintings as objects, rather than pictures of objects. In some of the paintings among the Baxter selections, the artist has cut and placed the acrylic surface pieces on the canvas support so that it dangles dangerously below its rectangular format.

Included in the exhibit are improvisational watercolors that depict the paintings. Some of the works are studies for the paintings, and says Smith, "It is looking at the relationship between the watercolors and the paintings that the provocative nature of the artist's work is revealed."

The exhibition continues through June 10. The Baxter gallery is located in the Donald E. Baxter, M.D., Hall of the Humanities and Social Sciences at Caltech. The gallery is open from noon to 5 pm Tuesday through Sunday, and closed on Monday. There is no admission charge.

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.

Ever Play Jubilee?

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 p.m. Admission: $3.60 for CIT/JPL faculty and staff, and free for Caltech students. For information call x1652.

Raked Plants?

The Caltech Service League's annual Plant and Bake (sale) will be given at the Winnett Patio, Friday, April 27th from 8:30 am. Proceeds will benefit the Service League projects for Caltech students, so go out and help yourselves.

Heth?

Dennis Prager, co-author of Eight Questions People Ask About Judaism, will be speaking on "Jewish Values vs. Modern Values" on Wednesday, May 9. The talk will be in Winnett lounge at 4 pm.

Dennis Prager's book has been acclaimed as "the intelligent skeptic's guide to Judaism." He is director of the Brandeis-Bardin Institute in Simi Valley, and has traveled to 60 countries including China, the Soviet Union and several Arab countries. He is also an excellent and dynamic speaker. His talk here is open to all, and something not to be missed.

Visit Scenic Academia

The Caltech Y and the Gnome Club are offering another Career Counseling Seminar. This one will be held on Wednesday, May 2 in the Y Lounge at 7:30 pm. The topic will be "Careers in Academia." All interested undergraduates are welcome.

Photos by Alan Loh
Budweiser presents...

the TASTE BUDS

"MIDNIGHT SNACK"

OK, WAKE UP... MIDNIGHT SNACK TIME!

OH, LEMME SLEEP.....

WAKE UP... BALONEY SANDWICH!

LEMME ALONE... I WAS JUST ABOUT TO MEET THIS DYNAMITE CHOCOLATE MOUSSE.

... AND A BUDWEISER

HEY, YOU GUYS, SOMEBODY WAKE UP THE FAT GUY!

CLICK

WAKE UP, FAT GUY!!

OK... LET'S GET THIS SNACK MOVIN'....

LET'S GO... WHAT'RE WE WAITING FOR....

Pour IT ON!!!

Why do you think they call 'em TASTE BUDS, anyway?

WATCH THE TASTE BUDS (IN ACTUAL COMMERCIALS) ON "SATURDAY NIGHT LIVE!"
Trackmen Prevail

Trackmen this season, out of a 110m hurdles, but placed third in the 400m dash, 3rd in the shot put of 33.3. In the 200m dash John Hattick paced for his first win this season with a 23.3 clocking, followed by Blaisdell (third at 23) and Morrisett (fourth at 23). In the distance events, Bill Bold battled for his first win in the season’s 5000m run 6:02.8, and senior Rob Ware grabbed a third place score in the mile run with a 4:03.5. In the 400m hurdles, freshman Lewis Collins cruised to an easy win at 58.6.

These performances, along with additional showings by Blaisdell and Morrisett in several field events, boosted Caltech’s season record to 7-5.

The SCIAC finals are scheduled for today and tomorrow at Whittier College (and Claremont College for certain events), and there is a chance for all you track fanatics to see some impressive performances by conference stars. With a little support, there could very well be some Caltech jerseys in the spotlight at this meet. See you there!

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<thead>
<tr>
<th>Dual Score</th>
<th>CIT</th>
<th>LAPD</th>
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<tbody>
<tr>
<td>CIT</td>
<td>67</td>
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<tr>
<td>LaVerne</td>
<td>49</td>
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<td>LAPD</td>
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<td>Redlands</td>
<td>37</td>
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Freshman Lewis Collins cruised to an easy win at 58.6.

Do research in biology. There will probably be a test or questionnaire mailed out to freshmen this summer to facilitate organizing the initial rosters in the sections.

Dr. Goodstein ( presently preparing the course) will work hard to present the material at an appropriate level. “I hope to design lectures which can be easily understood by as many students as possible without boring those who are already familiar with the equations. I spend a lot of time learning the history of any subject I teach so that I can find things that might make the subject more exciting. My wife Judy [A Ph.D. in history and the Institute Archivist–R.B.] helps me greatly by suggesting the best sources for a particular topic.”

His experience spans the teaching of physics as well as the subject. He feels that the Feynman Lectures on Physics will remain a monumental achievement for years to come. “Feynman has significantly influenced the teaching of physics in the United States for twenty years; the Berkeley Physics Course is a good example of that. The problem back in 1960 was this: every two hundred or so students come to Caltech all fired up about atoms and quantum mechanics, and instead they’re told about pulleys and springs. They were bored and turned off. So Feynman discussed pulleys and springs, but used them as vehicles to teach modern physics.”

However, very few people have Dr. Feynman’s enthusiasm and ability for teaching, and the problems of 1960 have returned in 1979. So the physics department has decided to rearrange the order of topics and to replace the two-track system. “It’s a good idea to shake up a department (and even a school) at least once every ten years.” Dr. Goodstein believes that the revision of the course structure is not the most important innovation. “Fifty years ago, long before Richard Feynman shook up the faculty, Robert Millikan and Carl Anderson taught physics I recitation sections. Since then we seem to have lost this Caltech tradition; it looks like we are bringing it back.” This could be the first step in bringing the senior Caltech faculty closer to the newest undergraduate students.

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He also made some Goals

**GELLMAN SCORES!!**

by Grant T. Yokum

“Gellman! Andy Gellman! How we love that boy!”

The crowd, as Andy took the Beavers to a game lead over Pierce in a 1-of-3 series in which Tech was to reacquire the Warden Cup. Gellman burst onto the ice and scored the first three goals of the game. When asked to comment on his hat trick, Gellman replied, “They were all shot-ass goals, if it don’t make me no never mind, all scores count the same.”

Norm Bobroff assisting on Tech’s goals and John Johnson, driving some assisted goals, the no-nonsense kick pack (Christensen, Gellman and Bobroff) once again inhabited the stick-toi-revenu at had made them the top productive trio this year, though lacking the dazzling of the SONICS (the line inspired of Fred ‘Trans’ Culick, a ‘Hyper’ Minahan, and J.P. ‘Fer’ Bardez) they persistently commanded the opposition and had collected all four Caltech goals in the 4-3 victory over Pierce.

Ph 1 from one

Freshman Lewis Collins cruised to an easy win at 58.6.

These performances, along with additional showings by Blaisdell and Morrisett in several field events, boosted Caltech’s season record to 7-5.

The SCIAC finals are scheduled for today and tomorrow at Whittier College (and Claremont College for certain events), and there is a chance for all you track fanatics to see some impressive performances by conference stars. With a little support, there could very well be some Caltech jerseys in the spotlight at this meet. See you there!

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<th>Dual Score</th>
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<tbody>
<tr>
<td>CIT</td>
<td>67</td>
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<tr>
<td>LaVerne</td>
<td>49</td>
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ASCIT Movies this week offers a good of blood and guts type Clint Eastwood movie, The Outlaw Josey Wales. Clint Eastwood and Chief Dan George star in this movie about vengeance and morality in the post- Civil War Old West. Clint Eastwood not only stars, but directs in this movie. Come and see this “... absorbing, lusty, gutsy, action-filled adventure.” Remember, show times this year are 7:30 and 10:00 in Baxter Lecture Hall.

Cinematch offers two excellent movies this week. The first is On the Waterfront, starring Marlon Brando. Elia Kazan directed the picture, which won eight Academy Awards. This is a story of corruption and crime in the waterfront area of New York, Karl Malden and Eva-Marie Saint also star, and Leonard Bernstein’s music makes this a movie well worth seeing. The second movie this weekend is an animated feature, The Point. This widely-acclaimed film is about the only round-headed fellow in a country where everything has a point. After his exile, this round-headed fellow finds that there is more to life than having a point. This is a thought-provoking film that is also entertaining.

Cinematch starts at 7:30 on Saturday, also in Baxter.

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Discuss... Discuss... The Women's Students' Discussion Group will hold a special meeting today, April 27th, 12 noon-1 pm, upstairs in the Y Lounge. Three graduate (Chemistry) students—Pat Green, Frances Houle, and Mary Ann White—will discuss the NSF/UCLA Women in Science Conference they recently attended. If you can't attend the discussions on a regular basis, feel free to drop in any Friday. Call Bes 2394 for further info.

Take this to Heart
Is your heart beating nicely today? You'd better check for a minute and make sure. If you're still reading this article, it was probably still functioning. Good news, how would you like to help some people who don't have the luxury of believing that their hearts will continue to beat, tomorrow, or even later today? (And, being the greedy devil you are, maybe picking up some loot on the side.)
The deal is this: Colonel Sanders and the Kentucky Fried Chicken Kitchens (say that three times with a mouth full of colt's jaw) have arranged with the American Heart Association to help sponsor the first annual Have-A-Heart Bike Race on Sunday, May 6. You help raise money for the Heart Association by obtaining sponsors—for-the-mile, and riding whatever distance you see fit along the Ride route. If you obtain sponsorships totalling up to 25 cents or more per mile, you qualify for a drawing for 10-speed Bikes. Other prizes, as well as automatic free munchies at the end of your ride.
The Bike Ride route passes through Pasadena, so you don't even have to travel very far to join it. Each segment starts at a Kentucky Fried Chicken location, and entry forms are available. The Ride planners have organized enough Huffy 10-speed bikes to enable them to give away about one for every 100 qualified riders.
Please visit the nearest Kentucky Fried Chicken or American Heart Association location and pick up the forms. The heart you save may at least belong to a friend.

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

events
Fearless Lieder?
Jessey Norman, soprano, will perform songs from her repertoire of lieder, art songs, and arias in a recital on Wednesday, May 2 in Beckman Auditorium, at 5 pm. Admission is $8.10–7.20–6.30 for CIT/JPL faculty and staff, $7.20–6.40–5.80 for Caltech students. For information call x1625.

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 9:45 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 4th & College in Claremont, and by phone at (714) 621–8032.

Twelfth Night
A contemporary production of Shakespeare's Twelfth Night will be performed by the New San Francisco Company in Beckman Auditorium on Saturday, May 5. The play begins 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 x1625.

You Thought You Knew It Right?
Dr. Jane Goodall will speak on "Childhood and Adolescence in Chimpanzee Society" on Tuesday, May 1, in an L.S.B. Leakey Foundation Lecture in Beckman Auditorium. It will be an illustrated lecture about her research with the Gombe Stream Reserve in Tanzania. Time: 8:00 pm. Admission: $5.50. Caltech students can phone the Ticket Office (x1625) for a special ticket offer. Also phone number for information.

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

Get Yourself Committed!
Three general management seminars will be "Assertive Management" (May 1–2), "Effective Time Management" (May 4–5), and "Handling Pressure Programs Face-to-Face" (May 17–18) will deal with the latest techniques in organizational behavior, motivation, and productivity improvement.

Lost:
One large puddle. Last seen on the night of 4/23/79. It is 7 feet long, 60 feet wide and ranges in height from 4 feet at the shallow end to 12 feet at the deep end. It answers to the name "Puddle" and can be recognized by the greenish tinge from the presence of copper and the lapping sounds it makes when disturbed. If seen or found please notify the athletic department.

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