Graduate school scores high

Geology and physics departments take first in latest US News and World Report rankings

BY TECH STAFF

US News and World Report bestowed honors upon Caltech yet again on Monday, this time in their rankings of the best graduate schools in the nation. In the magazine’s most recent issue, Caltech’s departments of geology and physics were ranked first in their fields. Within the geology category, it also placed first in geophysics and geochemistry and third in tectonics/structure.

Within the physics category, Caltech took first in astrophysics, space and fourth in elementary particles. The chemistry department took second overall, including second in organic chemistry and physical chemistry and first in bio-organic/biophysical chemistry. In engineering, Caltech placed third in two types: aeroplanes/axiological/astronomical, and environment/ and safety in environmental health, which rose from sixth place last year. It ranked fourth in chemical engineering.

Caltech also earned a place in the magazine’s Social Sciences category, ranking fourteenth in economics. Graduate schools were evaluated mostly on the academic reputations of the faculty in each department. This year many types of graduate programs were judged, including MBA and MA degree schools and schools of law, education, business, and medicine.

Harvard University and the Massachusetts Institute of Technology claimed most of the top rankings.

Caltech came to the special attention of US News and World Report when its undergraduate program was ranked first in the country. Like the undergraduate rankings, the graduate rankings have stirred interest in the graduate school. Within the institute, however, faculty and administrators are aware of the political and transitory nature of rankings decisions and are cautious of paying too much attention to the magazine’s reports.

Three new chemistry faculty hired

BY JON FOSTER

The Organic Chemistry department at Caltech is set to undergo a radical transformation next year as three new organic chemists join the current staff. Brian Stoltz, David McMillan, and Lai-Hsiieh Wilson are the three new members. Stoltz and McMillan are synthetic organic chemists, while Hsieh-Wilson is a bio-organic chemist. They will be arriving at various times over the summer and will initially teach graduate level classes. The motivation behind the new聘ings is simple. The division has historically had six professors, but over the past few years, three have left for one reason or another. Dr. Dennis Dougherty, Executive Officer for Chemistry, explained, “We certainly had a hole in synthetic organic chemistry, and we were fortunate that some of the best people were available and interested in coming to Caltech.”

Hiring three new members in any department is certain to bring changes. “This is a big move,” said Dougherty. “We’re moving to absorb this. However, the three new members fit in well with the current professors, and the integration of Stoltz, McMillan and Hsieh-Wilson is expected to go smoothly.

Arnold O. Beckman to be honored at 100th birthday celebration next week

BY ELIZABETH ALBAMS

Arnold O. Beckman, a benefactor and Caltech alumns, will celebrate his one hundred birthday on April 10th with a black tie dinner at the Athenaeum and fireworks. Also in his honor, a special two-day scientific conference on topics from chemistry to biochemistry, will be held in Ramo Auditorium on April 7-8. (More information on the conference can be found at www.caltech.edu/events/beckman.)

Dr. Beckman was born April 10, 1900 in Cullom, IL. He earned his bachelor’s and master’s degrees in chemical engineering at the University of Illinois before coming to Caltech for his doctorate in photochemistry in 1928. He then became a professor of chemistry at Caltech, where he remained for 12 years.

In 1934, he invented a pH meter for measuring acidity in citrus processing plants, and the following year he founded Beckman Instruments. In 1940, he left Caltech to concentrate on his company, which has since become a world leader in scientific instruments.

Among Beckman’s inventions are the DU Spectrophotometer, which vastly decreased the amount of time spent on routine laboratory procedures, and the HELIPOT, a variable resistance device similar to a radio volume control which became an important part of radar systems in WWlll and continues to find many uses in electronic equipment today.

He also was instrumental in bringing about scientific studies of the sources and mechanisms of photochemical smog, and later helped develop pollution control regulations and procedures for LA County.

Beckman has always maintained an interest in scientific education and research. Through the Arnold and Mabel Beckman Foundation, he and his wife have been quite generous in their gifts to numerous universities and research centers, including the four buildings on the Caltech campus which bear the Beckman name.

In 1953, Dr. Beckman became the first alumnus on Caltech’s Board of Trustees. He served as chairman of the board from 1964 to 1974.

Grounds are prepared for Monday’s festivities at Beckman.
Scholarships awarded

The Goldwater Scholars were selected on the basis of academic merit from a field of more than 1,176 mathematics, science, and engineering students who were nominated by the faculties of colleges and universities nationwide.

The Scholarship Program honoring Senator Barry M. Goldwater was designed to foster and encourage outstanding students to pursue careers in the fields of mathematics, the natural sciences, and engineering. The Goldwater Scholarship is the premier undergraduate award of its type in these fields. The Goldwater Scholars were selected on the basis of academic merit from a field of more than 1,176 mathematics, science, and engineering students who were nominated by the faculties of colleges and universities nationwide.

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Caltech grad becomes a millionaire on game show

"Who Wants to Be a Millionaire?"

We're all a little bit different. A couple of weeks ago, however, one of our own, Joseph Trefa (Caltech grad '97, Planetary Science major), was up to the big win. Here is his story:

Q: How do you get to be on "Who Wants to Be a Millionaire?"

A: Well, I called their phone number. A lot. On specified days, they have a toll-free number available (it's used to be a pay call, and the schedule is posted on their website at abc.go.com). When you call the number, you enter your phone number and last four digits of your social security number as an identifier (you only get to call once a day).

Then, you are given four items to put in a particular order (such as parts of a book, or top to bottom, or "words in a phrase" in correct order). If you put three groups in correct order, you get to record your name and phone number.

Next you specify a future tape date to try for. About two hundred people are randomly selected from those who chose particular tape dates to move to the second round.

You are given a secret phone number to call and a personal ID number to enter. Then, you are given five groups to put in order.

This time, however, speed is a factor as it breaks ties. If you are one of the ten fastest, you are allowed to put the second tape date on the boards with the rules and your information (they pay for a plane or car, transportation to/from the airport, and food).

From then on, it's time to study and find Phone-A-Friends.

Q: What was the most exciting moment during the game?

A: For me, the most nervous time was when I thought I won the $32,000 question (who played in most World Series with Reggie Jackson, Yogi Berra, Mickey Mantle or Pee Wee Reese). I knew a fair amount of sports trivia, but I trusted my brother to know more. He answered Jackson, but he was kind enough to indicate that he was not sure. I then used the fifty-fifty lifeline, which eliminates two answers. It left me with Jackson and Berra.

At first I thought that Jackson was the answer, since my brother thought so and he's known as "Mr. October". Fortunately, however, there's no actual time limit (they edit the final show), so I slowed down and cogitated.

Jackson started with the Kansas City/Oakland A's, where he won three Series. Then he went on to the San Francisco/San Diego Padres, where he won two or three more. Finally, he finished up with the Angels and the A's, where he won nothing.

So then, Turned to Yogi Berra. I knew he was with the Yankees in the forties and fifties, and I knew that they were quite good then, winning several titles in a roll.

I considered just taking the $161K I had at that point. But something told me that since these questions I had gone through were angled toward pop-culture questions, the next ones might be more in my sphere of knowledge.

I had no idea if there was any scientific basis for that, so I figured I might as well take the chance to go for more. And luckily, I was right.

Do you think that you ever really had a chance at winning so big?

A: I figured I had a nonzero chance. While watching the game at home, there were a fair number of question sets where I knew every answer. On the other hand, there were some where I would have been stumped by, and others where I would have cheerfully given the wrong answer.

It seems that the first five questions are warm-ups, and the first five he had for those who aren't that strong in the given subject areas, but in the last five the writers seem to be trying to be tricky (hence, "Captain Howdy").

Q: Is it true that you named Daubney House as a lifetime and that they had people near the phone waiting for the call?

A: Yes. I contacted John Marquis, who currently works for the USGS in the Mudd buildings—he was also my host during Pre-Fresh weekend in 1992.

He said he wouldn't be able to get off work the day of the tap (Wed. 9/15), but he got in contact with the Dean President, Dana Vukojich. She got a mob of Daubney together by the Lounge phone to wait for my potential call. I should probably send them something nice.

Q: Now that you're a millionaire, what do you plan to do with your newfound wealth?

A: Well, now I'll show them! Seriously, it's in a money market account right now, so I didn't sweat out the recent "corrections" in the stock market too much.

I'll invest most of it, some time off work to indulge myself a little, and campaign vigorously for Steve Forbes and his flat tax (NO!!!)

Q: What do you do now?

A: While finishing up at Caltech, I realized that I didn't really want to go into an academic career, so I became more interested in writing—specifically, screenplay.

I had been working at KLA-Tencor, which make analytical equipment for semiconductor manufacturers. I'd just started with them, though, so they really weren't able to give me time for a sabbatical, so I think I'll amass with them Tuesday.

I did leave my resume with Lucent on Monday, though.

Q: Are there celebrities going to see any of the money you made?

A: We'll see.

Q: What is your overall reaction to the experience, and how do you feel about it now?

A: Things have gotten quite weird. For example, just before I started writing this a celebrity called me up to thank me for volunteering as a phone-a-friend for the celebrity episode they'd be showing soon.

This would not have happened if I had guessed Reggie Jackson. Also, if I live (where I live) is a small town, so if I go to the store or a restaurant, I'm inevitably recognized by someone within five minutes (everyone's heard of my name in my interests).

Worse things could have happened in New York. Q: Where anything else you would like to share?

A: Just that I think I still have a DEI bill - guys, I swear I'll pay that before October.

Also, I don't think I ever got 1997 yearbook.

If anyone has any spare handy, that'd be nice.
Green things and sports

Hello mudda, hello fudda, here I am...

BY YUKI TAKAHASHI

Hi mom and dad,

I just made it back safely from this thing called the “Alternative Spring Break.” It’s a program by the Caltech Y’s (the Y is something that does a lot of extracurricular stuff for students), and we got to go to Arizona and Mexico! It was pretty much like a free vacation and I had tons of fun. The cool thing is, we were actually doing community service. The point of the trips was for us students to go to different kinds of communities to help people.

About 10 of us went to Arizona for 4 days at the beginning of the break. We went to a place called Earthtime Ranch near a Native American reservation in Flagstaff. People there told us that the ranch was for hosting retreats and internships focused on intercultural exchange, especially exchange of indigenous knowledge. It was so isolated from the city that they had internet connection only through cell phones! The whole facility used only rain and sun for water and electricity. They told us that they try to live with very little impact on the environment. We made a trail that minimizes erosion, fixed a box garden to protect plants from strong winds, cleaned the outdoor composting toilets, and worked with solar panels. What do you think about getting a composting toilet for our house? That thing doesn’t smell at all. On the last day, we cooked food underneath a bonfire and on the grill and had a nice dinner with the people at Earthtime Ranch. During the trip, we had enough free time to visit Tijuana National Park, Sunset Crater, Walnut Canyon, and even the Lowell Observatory. Anyway, it was really neat to spend a few days in a setting totally different from Caltech. Toward the end of the break I

... Caltech students lend a hand... trees or something. We also had trouble talking to a few teenage guys. They were funny. One of them was really into Pokémon. We ate at local taco stands—food was excellent and nobody threw up.

Working at the community center in Tecolote was cool because we could easily see that we made the place nicer. It’s always fun to go to different communities and work with friends on something completely different from schoolwork. The Y’s going to have the Alternative Spring Break program to Mexico again next year, so want to go again instead of coming home! Any way how was your spring break? When I ask people that question, some say “Oh, it was too short... went home...sat around...didn’t do much!” Others say, “Man I partied and got wasted like every single day.” I think whoever answers something like this should check this program out, and maybe help make some changes in society.

... Caltech athlete of the week...
Cider House Rules (B)

My interest in this film was piqued upon the announcement of its numerous Oscar nominations over a month ago, seemingly a film overlooked in the shuffle of entries vying for accolades during the holiday season. With a fairly unassuming movie poster, it had easily been relegated to the category of films with cryptic titles using words beginning with the letter C (Cradle Will Rock, Snow Falling on Cedars) that surfaced at the end of last year. Undoubtedly, a masterful marketing scheme and something intriguing about this film did not go unnoticed in the eyes of Academy voters. With a flurry of powder-free fresh orbs the movie seeks to elicit the pity and compassion of the audience while subtly juggling the sides of the very incendiary issue of abortion. Strangely, while the film reveals its pro-choice inclination, the existence of the orphans in all their abjectness attests otherwise.

The context of this contentious issue lies in the coming-of-age-tale of Homer Wells, an orphan with the name hybrid of the immortal bard and the accomplished novelist, and so named by the aged obstetrician also burdened with managing the bustling orphanage which had delivered him. New England is today the bustling conservancy as it was likewise in the WWII era during which the film takes place, but it is not without its share of imperfections: the good doctor performing abortions illegally, pregnancies out of wedlock, and tales of lust and betrayal. Treating such topics would have been taboo in the 1930's and 1940's, but we are able to burst the bubble of pre-contemporary innocence and decorum defined by such sitcoms as Leave it to Beaver, which came later but we suspect that the portrayal of domestic life prior to that would have also been just as peevish. Though Homer had disappeared in the film was barely a year, Homer Wells undergoes a transformation, and at least the cessation of his sexual repression. One of the ironies is that while Homer was raised within the orphanage and present during many of Dr. Larch's (the obstetrician and patriarch of the orphanage) operations and therefore cognizant of the results of formal love affairs, he is still oblivious to the advantages of another orphan prior to his eradication. As the orphan who eloped adoption the longest, Homer had become the older brother to the others, both the comforter and disciplinarian of one of the most cherubic casts in film history, while also defining his moral. Often, he frustrates Dr. Larch because of his inclination for life-saving rather than aborting. As his own existence and those of the other abandoned children were so tenuously close to that of a pile of ashes in a furnace (the uninhibited final destination of aborted fetuses) his aversion from Dr. Larch's practices were quite justifed. The clash over ideals, however, never supersedes the fatherly affection Dr. Larch evinces, upholding always and never underdramatic.

Nevertheless, Homer riches for a greater reckoning of the world.

Aqua Haus rulz

The Ticket Stub

by Justin Ho

Many of you probably remember "Barbie Girl," which was Aqua’s big hit a few years back. Their other hit in the U.S. was "Turn Back Time," which was the featured song for the movie "Sliding Doors." Their album Aquarius sold over 14 million albums worldwide, and "Aquarius" is their second album. This Europop/Dance group consists of four members, led by Lene Nystrøm, the female singer in the majority of the musical numbers. In this album, Lene sings with two other voices—one which is modeled electronically (I think) to be higher, and her normal voice, which has a delicate, tender sound. The other main singer in the group, René Dié, contributes a completely different sound, almost like a rapper, and often it is used in the same manner that was used to play Ken in the Barbie Girl song (ohhhh Barbie let’s go party). Aquarius includes a few songs that remind me of Barbie Girl, but there are also some slower ballads and less dance-intensive numbers. I was actually quite surprised by how gentle some of their songs were, like "Aquarius," and "Goodbye to the Circus." But the meat of the album is very upbeat—and I got the feeling while listening that the people that would like this type of music would probably also like pop and dance/other similar things. Jennifer Lopez, Christina Aguilera, and Vanessa Williams are a few of my favorite tracks were Cartoon Heroes, We Belong to the Sea, Good Guys, Aquarius, and Goodbye to the Circus. One thing that amazed me was that Aqua wrote, sang, and produced all of their songs. And think about this: there were thirteen songs we mentioned already. Different styles are employed, which include some 60’s rock ‘n’ roll, reggae, musical, cabaret, pop-classical, salsa, and dance-beat. For the song Aquarius, which is a piano-accompanied, slow piece, you can hear a symphony orchestra playing in the background. If you are listening to most of the tracks on the CD, mainly because I felt like the songs weren’t a repetition of the same thing, but rather new original, varied, and well executed songs. This CD was meant to cheer people up, and one of their lyrics, “Do what you want and be happy!” counsels us to do just that. One final thing about the CD is that it includes the music video for "Cartoon Heroes," the first single off the album, which cost approximately $3.5 million to film. It’s neat thing to watch and completes the album nicely.

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* $800 for seniors

and $1,000 for graduate students. Oddly, relatively speaking, this is one of the most affordable credit cards in the category.
A.S.C.I.T. Minute Goodness

Present: New BoD (including Cae-stick); Guests: Emilio Castaño Graff; Dan Liebling

Meeting called to order at 10:52 pm.

Martha-Helene organizes the club proposals for distribution to each member of the BoD. Emilio comes to the meeting because he thinks ASCIT is really, really cool.

General Meeting

The first item on the agenda is the ASCIT Carnival for Prefresh Weekend, which will replace the ASCIT Party this year. Melinda will be able to get us the Bungee Run, Dump Tank, and Bouncing Castle. To cut back on costs, we will have to assemble and operate these ourselves. We will also have cotton candy, popcorn, and maybe game booths if we can find people interested in running them.

Melinda has the contract from the Ritz-Carlton, Huntington, for the ASCIT Formal. The BoD votes to approve this contract.

Next, Melinda brings up the ASCIT lights, which are reportedly broken, although the fog machine still works. She has a printout of an email from Dan Liebling requesting a list of new equipment. Eric calls him on the phone, asking him to come and make a presentation.

Meghan has a money request for the ASCIT van, which she is working on selling. She needs funding to renew the registration. Unfortunately, in order to get this registration, the van needs a smog test and must be driven to the DMV, but without registration no one can drive it. The solution to this problem is to get a one-day moving registration. Caltech has offered to sell the van for us if we get the registration.

Eric asks if anyone has seen his friggin’ TI-82 calculator, which was last seen at the Capra retreat. No one has.

Martha-Helene distributes the copies of club proposals. She estimates that there are 35 proposals in the stack.

The BoD then brainstorms about what to do about the International Students office, which will be vacated when the ISO moves to the new building being built on Hollestein. Tom Mammon has asked us for suggestions. Should we move the ASCIT office? The best suggestion seems to be to put a post office extension there, so that students will not have to walk all the way to Keith-Spalding to pick up packages. It may also be open later for students.

The Budget Monday is this Friday night. By Saturday morning (or afternoon) the BoD will walk out of 070 Moore with a complete budget for the next fiscal year. At the Capra Retreat last weekend, Baldeep came up with a list of criteria for club funding.

Baldeep’s Criteria for Club Funding: 1) Clear, positive, constructive mission; 2) Demonstrated diligence, efficiency, and creativity in the execution of the mission; 3) Broad appeal, compelling activities that enrich the community and facilitate the interaction of diverse groups and/or activities that nurture the fellowship of existing groups; and 4) Activities that well represent the undergraduate student body or enhance the image of the institute as a whole.

The BoD will review copies of the club proposals that Martha-Helene handed out. (She was right, there are exactly 35 proposals!) The Budget Meeting will start with the first club at 7:00 pm this Friday night and will give each club 5 minutes for presentation and 3 minutes for questions. The clubs will be spaced 10 minutes apart, allowing a 10-minute break every 5 clubs.

Dan Liebling comes in to talk to us about the ASCIT lights. The BoD decide to postpone buying new lights until we know more about the state of our current equipment. Melinda, with the help of Dan, will look into that.

At the Capra Retreat, the BoD decided to set up a meeting with all the publication editors and business managers. We will be discussing schedules, contracts, equipment status, and human resource issues. Sean will also meet separately with the business managers to discuss finances. This publications meeting will be held in two to three weeks.

The BoD sets the ASCIT weekly meeting time this term to be on Thursdays at 4:00 pm, to give faculty and staff the chance to attend. However, the meeting time for next week will be at 10:00 pm on Tuesday, April 11 to give us time to prepare for Prefresh Weekend.

Meeting adjourn at 12:14 am.

Respectfully submitted.

Jason C. Cardema
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Dean's Corner

Who speaks for Caltech?

by Jean-Paul Revel

Culberts an idiosyncratic place in many respects, but one of its most unusual aspects, I think, is the living arrangements of our students. About 1930, a deal was made between Millikan, the architect of the modern Caltech, and the student body. The existing fraternities would disappear from Campus once the (South) Houses were built. So the only remnant of the frats of old is Kappa Gamma, now known as the Gnome Club.

This arrangement resulted in houses with a great deal of autonomy, each having its own government and each developing its own traditions. All in all this concept has worked to most people's satisfaction. The houses have become a very strong point of focus for students' life, although the existence of quasi-independent fraternities in the middle of the school has sometimes caused problems. Sometimes house traditions or high jinks disrupt the peace of the institute or the well being of individual students. We are coming up to a very sen-

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April 7, 2000

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The Caltech/JPL flying body (AATIC) will hold its Spring general membership meeting on Monday, Apr. 7, 7:30 to 9:00 pm at 269 Laurentian. The flying body has its own wrestle and offers a presentation on all things related to flight, group flying trips and camaraderie to aviation enthusiasts of all skill levels. There will be a presentation by the President of the National Transportation Safety Board (NTSB). Anyone with an interest in aviation or who wants to learn to fly or simply interested in the world of flying be invited. For further information, contact Greg DeBueler x1967 at Caltech or Peter Ghosh 492-0492 at JPL.

OASIS, The L.A. chapter of the National Space Society (NSS), will hold a meeting at the Beckman Institute room 115 from 3 - 6 p.m., Sat. Apr. 13. The public is welcome to attend. More information about the club see our web site at www.ss.org/oasis.

Caltech Ballroom Dance Club presents a free ballroom dance party. Mon., Apr. 3 from 1-3 p.m. in the Cook N. Finding the Lindy hop class, in Winnett Lounge. No partners are required and the class will be served will start at 9:00pm with Lindy hop music until 9:30pm at which time requests will be taken. For last minute changes see www.caltech.edu/ballroom or call (629) 761-1926.

Due to recent vandalism, Cleveland Elementary School in Pasadena is seeking donations of books and equipment. Specifically, the school is in need of two overhead projectors and books appropriate for grades 10 to 12 that are either damaged or destroyed. Donations may be made directly to Cleveland Elementary School, 520 Northwest Street, Pasadena, California 91105. For questions or information, please contact Principal Abel Bach at 769-7194 or 820716.

The Caltech Quintet will give a free concert on Apr. 5, 8:30 to 10 p.m. in the Duke Shamber Auditorium. This is a local ensemble. Music Concert. The performance will be directed by composers William Chiang and Argon Manders, pianoist Daniel Rosenberg, violinist Jeri Li, and conductor Stephen Tick. For more information, please contact 820-2207.

The Collegiate Competitors Compo- storefront for your annual Hall of Fame, is having on 2000 cash prize. Faculty advisors and students who are interested in entering the competition, or have any questions should contact 820-3373 or 820-2207.

Music of the late 20th century to be featured in April 12 Dabney Lounge Concert. The Division of Humanities and Social Science will offer a free concert: "Architects of the Avant-Garde." The concert will take place on Wednesday, April 12, 8:00 PM, in Dabney Lounge, as part of the division's music offerings for benefit of students enrolled in music courses and the community at large. Members of The St. Mary's Chamber Orchestra, Tho- mas Neuman, Music Director and Con- ductor (and Lecturer in Music at the College) will join by composers William Krall and John M. Kennedy for an informal look at music at the turn of the 21st century. Featured in the conversation with the composers and Neuman about the music to be performed will include various "Choruses for Percussion and Chamber Ensemble" and works by Kennedy, Tan Don and others.

The Battlefeld Band will present their spring concert on Apr. 14, 6:30 PM, in Caltech's Beckman Auditorium. Inspired by their rich heritage of Cebic music, Battlefeld Band mixes folk and old songs with new self-penned material. Tickets are $25, $22, and $17, youths 12 and under receive $2 off. Tickets go on sale for $8, 10 minutes before performance. For more information, call 888-222-6425.

Ride your bicycle to Caltech? Register with Caltech's CV COURT-CYCLE! Call Cy-cle or email: cy-cyle@caltech.edu. Monthly randon drawings for a $300 gift certificate to a local bike store and free up and out of the Commuter Fair, on May 19! If you are a distance rider, log in your miles for an extra chance to win additional prizes every 6 months.

Be a part of the earthquake team. The Caltech earthquake team, the Caltech Seismological Laboratory, is looking for a part-time intern for ongoing monitoring and programming of an automatic web-based system for gathering real-earthquake shaking data damage (see http://pasadena.wr.usgs.gov/ims.htm). Sum- mer and fall internships are also available. Contact Career Center. Email wd@caltech.edu.

The Caltech Ice Hockey Club will be having its annual alumni fundraiser game with the MIT Alumni Club on Saturday, April 13, 12:30 p.m. at the Glori- dale Glider Ice Center in Lakewood. Admission is free. For directions to the rink, please go to our web site at www.its.caltech.edu/icehockey.

The Caltech/JPL flying body (AATIC) will hold its Spring general membership meeting on Monday, Apr. 7, 7:30 to 9:00 pm at 269 Laurentian. The flying body has its own wrestle and offers a presentation on all things related to flight, group flying trips and camaraderie to aviation enthusiasts of all skill levels. There will be a presentation by the President of the National Transportation Safety Board (NTSB). Anyone with an interest in aviation or who wants to learn to fly or simply interested in the world of flying be invited. For further information, contact Greg DeBueler x1967 at Caltech or Peter Ghosh 492-0492 at JPL.

OASIS, The L.A. chapter of the National Space Society (NSS), will hold a meeting at the Beckman Institute room 115 from 3 - 6 p.m., Sat. Apr. 13. The public is welcome to attend. More information about the club see our web site at www.ss.org/oasis.

Caltech Ballroom Dance Club presents a free ballroom dance party. Mon., Apr. 3 from 1-3 p.m. in the Cook N. Finding the Lindy hop class, in Winnett Lounge. No partners are required and the class will be served will start at 9:00pm with Lindy hop music until 9:30pm at which time requests will be taken. For last minute changes see www.caltech.edu/ballroom or call (629) 761-1926.

Earthquake Preparedness Training will be offered by the Pasadena Fire Department. Training will be from 9:00am to 12:00 Noon in the Baster Lecture Hall on Tho, May 16th. Learn what to do before, during and after an earthquake. The session is limited to the first 100 people who sign up. For reservations call Caprace Anderson at 6272.

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Dale Smitl will narrate the Arm-