**ARC report from the Student-Faculty Conference**

Dissent was rampant at the Student-Faculty Conference Tuesday April 15 sponsored by the Academics and Research Committee. ARC identified the issues that undergraduates, graduates, and faculty felt most needed to be addressed. Three committees presented ideas covering the topics of the purpose of an Undergraduate Education, advising, and a wide range of associated topics. The discussion became more intense at times, and there were always contrasting views to spark debate.

There were several body debated topics. Some students brought up the contrast between administrative policy toward pranking and the statement of support of the pranking tradition expressed by Vice President for Student Affairs Gary Lorden.

...students brought up the contrast between administrative policy toward pranking and the statement of support of the pranking tradition expressed by Vice President for Student Affairs Gary Lorden.

right to privacy. A third issue was educational standards at Caltech. Part of the audience felt that the education curriculum was being watered down as students with a broader range of interests were admitted. Others felt that students with broader interests would have better opportunities in the job market, and that the curriculum should support the breadth as well as depth of their interests.

Both the panelists and the audience had a multitude of ideas they felt were important and worthy of discussion. People wanted to debate even after the allotted time had expired. After the conference ended, both faculty and students expressed their admiration of the Caltech audience’s ability to define and defend the views it held.

The audience consisted of approximately 100 people per session, and contained undergraduates, graduates, faculty, and some staff. The moderators did an excellent job of channeling the discussion while allowing audience members with insightful points to present their ideas. The ideas generated by the conference will now be considered by each committee. The committees will continue to meet in order to redefine their proposals in light of this new information. They will present these ideas to the Caltech community through Tech articles in the upcoming weeks. Currently, they are reading through the surveys handed out during the conference. Once these ideas have been presented, the committees and the ARC will pare them down further. We will compose a set of proposals listing specific areas that need improvement and a recommended course of action for each. The plan is to present these ideas to the appropriate administrative division and generate changes based on the input derived from the student body.

The ARC feels that it is important to hold forums that allow students and faculty to express issues of importance, but that it is of even higher priority that these ideas be acted upon to improve the quality of life at Caltech. It is an ongoing process that has only begun. I thank all of you who participated in the Student-Faculty Conference and helped it achieve its objectives. The articles describing the proposals of individual committees will be appearing in following weeks. Please continue to be a part of instituting change, by speaking to your house ARC rep about issues you feel are important and expressing what you feel are necessary changes to the Caltech system.

The addition of Biology I, on the other hand, forced Chemistry 1b and 1c to be combined into just one term of class time, while covering the same material. This move proved to be fatal to many students, who felt lost at the rapid pace at which fundamental subjects like thermodynamics were taught.

Another change to the core curriculum was the rearrangement of topics covered in math. Probability, traditionally taken third term of one’s sophomore year, is now being taught first term to freshmen. Only this year will freshmen take probability before the sophomores.

For more information about the changes to the math core, please see the related article on page 11. -ed
Dear Editor,

Even though it may sound crazy at first, the idea of having former Dodgers manager Tommy Lasorda speak at commencement is not a bad one. Tommy is loved by baseball fans the world over for his enthusiastic personality, and has been called "baseball's ambassador." He also has a reputation as a great motivator, encouraging others to achieve big things. It's a Commencement that is not a bad one.

Yes, the beaver has feet.

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$ DEADLINE: MAY 2!!! $
To celebrate Earth Day, the Caltech Environmental Task Force has organized a number of events on the Caltech campus to take place during the week of April 21st through May 2nd. These events are being advertised at Caltech and in Pasadena, and all are open to the public. For updates on our plans, please check out our web page at http://www.cco.caltech.edu/-tide.

Monday, April 21st:
Winnett Lounge, 21-1.
“Environmental Lifestyles” - Ed Begley, Jr, well-known film and television star and spokesperson for the Eco-Home network, will speak about his philosophy and lifestyle and how they can co-exist with a place in Los Angeles.

Tuesday, April 22nd:
Winnett lawn, 12-1.
Performance by Djo-Gbe African dance troupe. Join in the sacred live drumming and transcultural dance experience led by the shamanic Dance Master of Benin, West Africa, Lazare Honetin and his tribe of world Drummers, featuring the Royal Court Drummer Desire Adomou. Connect with your true nature and release the healing rhythms of spirit and community.

Thursday, April 24th:
Winnett Lounge, 12-1.
“Endangered Species Conservation in SoCal” - Shawn Granberry of the US Fish and Wildlife Service will talk about opportunities in the Service and their conservation plans for the recently listed endangered species in Southern California.

Friday, April 25th:
Winnett Lawn and the Olive Walk, 11:30 - 2:00.
The annual Earth Day festival at Caltech features music, food, environmentally friendly products, and information on local environmental groups and issues. Alula, a reggae and African music band, will perform this year. The Whole Foods Market, Red Door Cafe and others will be serving organic foods and foods produced by environmentally friendly processes. Groups represented at the festival include the American Council for an Energy Efficient Economy, the U.S. Fish and Wildlife Service, the Pure Food Campaign and the Hemp Shak from Claremont.

Monday, April 28th:
Winnett Lounge, 21-1.
“Lifestyles” - Shawn Granberry of the US Fish and Wildlife Service will talk about opportunities in the Service and their conservation plans for the recently listed endangered species in Southern California.

To check out the announcements of opportunity, either visit our web site at http://www.cco.caltech.edu/-tide/ or stop by the TIDE Office.

Looking for an interesting summer job?
Would you like to work with a faculty member to improve a Caltech course?

**********
If so, check out TIDE! Teaching and Interdisciplinary Education (TIDE) is a new program at Caltech that employs the creativity and expertise of students and faculty working together to develop educational opportunities, materials, methods, or curriculum.

The deadline to apply for TIDE summer employment is Drop Day of this term (May 21).

To check out the announcements of opportunity, either visit our web site at http://www.cco.caltech.edu/-tide/ or stop by the TIDE Office.

tide
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null
Dean's Corner

it all or not, that is the question

by Jean-Paul Revel

So what is new? Do you know what happened last week? I am always amazed at how little I know about what is happening in the world or at home. To have a view about the world, listen to the BBC to find out what there is trouble in New Guinea or the Reunion or wherever. Myfanwy makes a valiant effort to bring us all up to date about the world, I know. But if I find it hard to follow what's happening in the world, it seems even harder to discover what's happening at Caltech.

Besides blaming the Tech for that, I must admit that it may have to do with me personally, as well as something with the people and material wants in life. We are of a lovely home and will teach good medical expenses allowed by law. We are willing to pay all medical expenses allowed by law. Your help is our free: 1-888-921-BABY.

So why did I have to read the Los Angeles Times and Science magazine to find out about this fun, unexpected way of dealing with problems? Why is it that I had to read about the work from J. Sefold's group in last week's Science magazine? Or to find out that Fred Shair at one point measured how smoke flows through the valley by detecting patterns of dispersion of SF6 and that Tony Tombrello looked at radon in underground aquifers in the basin. Did any of you know that? (Actually I didn't either, but I just found out ... and so I am one up, no?) Why is the Chronicle of Higher Education fascinated by Fraser (Scott) and few of the students here seem to have as yet discovered what he does or that his wife, Marianne has just taken up a position at Caltech? It is not that often that both wife and husband have professorial appointments in the same institution.

All of this disheveled set of thoughts is brought to mind by a discussion I just had with members of the Tech Editorial board. It was pleasure to have a chance to talk to them in a group, but I came out rather puzzled by the fact that there is potentially so much to report which would be of interest to us as a community and so little that is being done about it. If more students were occasionally to contribute to the Tech and if Profs were to write once in a while, the editors of the paper would have such a plethora of material! They could behave as real editors then with a big pair of scissors ... Ah, but it is never going to happen, people just don’t have the time and interest to do something positive. So much time is occupied by complaining about what might be, that there is no time for anything else.

Here we are assembled on our kapuka, a small hummock of territory surrounded by a sea of destructive lava (believe it or not, kapukas were recently discussed at a Faculty Board Meeting, because . . . well, never mind). In Hawaii that is the setting for the making of new species of fruit flies, which become separated from each other after a fateful volcanic eruption and lava flows, when they had been part originally of the same population. They are of great interest to Biologists because they are a natural setting for experiments.

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April 18, 1997

FOOD YOUR NEXT FOUNDATION BIRKENSTOCK SHOES!
REGISTER TO WIN A FREE PAIR!
Four comet chasers gather to dazzle the public

BY JOSEPH TRELA

Beckman Auditorium was packed to the gunwales. Ramo Auditorium groaned under the weight of more people than you’d find in a dozen Hum lectures. Even Shaft, the private dick who’s down with all that groovy chick stuff, had to vacate Baxter Hall along with the rest of the world. You’ll see why.

But in fact, the crowd soared past “decent”, through “resplendent” and “big”, and out into the ethereal realm of “quite large indeed” - so large that many latecomers could not be seated in Beckman and had to watch the showcase discussion on closed-circuit TV at Ramo and Baxter.

Although the unofficial focus of the event was on Comet Hale-Bopp, JPL, took the opportunity to promote two of its up-coming missions at kiosks that flanked the entrance to Beckman. The booth to the left of the doors described STARDUST, a Discovery-class mission that will be launched in 1999. Using aerogel technology (a silica-based solid only a few times denser than air), the spacecraft will loop around the sun in a 5-year orbit, collecting interstellar dust particles as it goes, come as close as 150 kilometers to the nucleus of Comet Wild-2 in 2004 to take dust samples, and return those samples to Earth in 2006. The second booth described the Galileo Europa Mission, a proposed two-year extension to the Jupiter orbiter’s nominal mission which will end in November. It would concentrate on surveying Europa (which may have an ocean of liquid water under its icy surface that could harbor life) to help plan future missions to the smallest of the Galilean moons.

The event included a show and tell of the dangerous environments the probes are designed to explore - Comet Wild-2, the moons of Jupiter, the comets themselves. Just to name a few.

After the historical overview concluded, the showpiece panel discussion began. It was moderated by David Levy, discoverer of Comet Shoemaker-Levy 9 that crashed into Jupiter in 1994, and currently tied for third place on the all-time discovery list with at least partial credit for 21 comets and a asteroid. The panel members were Hal Levison and Dr. Don Yeomans, a specialist in orbital calculations who over his career has predicted Comet Halley’s point of first visibility in 1985, the positions of asteroids Gaspard and Ida for Galileo’s flyby, and the impact points of S-L 9 on Jupiter’s surface. The panel members were Bary Lee, a Deputy Director taken from Dr. Levy, the audience and some that had been collected from the Internet earlier.

Dr. Levy started things off by described comet-watching as “the world’s slowest sport”. He then asked both Hale and Bopp about how they discovered their comet. Both men had taken advantage of a rare break in the southwestern summer “moonless season” to observe, neither one was actively comet-hunting at the time, and both spotted the comet near the globular cluster

The California Tech
THE BEETLE

Alice, I need this ASAP.

ASAP? Does that stand for a stupid-acting person, i.e., someone who doesn't react until the deadline?

That is embarrassingly close to the other things I say don't mean anything.

I found another dead employee in the conference room.

I don't know what got into the bathroom or the hard work, but headcount is down one and the company has life insurance on you, Wally.

It looks like I found my "employees of the week.

Our plan is to raise your blood pressure to dangerous levels.

Ooo you know that our CEO makes fifty times your salary even though our stock is down?

There has been a lot of zombing and grumbling since the company took out life insurance policies on all of you.

So we're having these catered lunch meetings to discuss your feelings.

Do you want the mad cow burger or the chicken done surprise?

Your success at work depends on what you have in your hands when you walk around.

A coffee cup is dead. A document is good. A Caesar is bad. A Bender is good. But the very worst thing...

It doesn't look like you're heading for the fast track, Wally. Actually, I blew, unless it's occupied.

DILBERT® by Scott Adams

April 18, 1997

Comics

August 25, 1996

THE CALIFORNIA TECH
Life after Tech: you don’t have to be a scientist

Caltech is a small, highly focused institute of technology. Most of the people who graduate from Caltech go into science or engineering related careers in industry or academia. It is more than a little unusual for a Caltech graduate to go on to become a successful opera singer. That’s why we at The California Tech thought that it would be interesting to talk with Dean Elzinga (Caltech ’89), about how he went from being a Tech math major to a globe-trotting opera singer. Dean Elzinga joined Thomas Oberjat (Caltech ’83), Debbie Crewe Smith and the Men’s Glee Club for their production of the opera-oratorio Oedipus Rex by Igor Stravinsky.

Dean was drawn to Caltech through his interests in physics, math and astronomy and enrolled at the age of 17. Advanced placement out of several freshman classes along with pass/fail grading gave Dean the free time to pursue many extra curricular activities during his first year here. An active member of Bonlock House, he also participated in the Caltech Swim Team, Men’s Glee Club, Chamber Singers, and TACIT, where he produced and arranged music and served in a lead role in another. Continuing this level of involvement in his sophomore year along with grades and junior level classes placed Dean in danger of flaming (dropping out for academic reasons). In the end he passed with decent grades but decided to spend more time away from Tech.

Dean traveled down to Guatemala and served in a Church of Mormon mission for 3 years. Upon returning to Caltech in 1987, a more mature Dean budgeted his time est in music. After making it to the finalist stage, he was denied a Watson fellowship.

Elzinga graduated from Caltech in 1989 and went on to graduate school in math at UCLA specializing in mathematical logic, which he had first studied here at Caltech. While at UCLA he became involved in the opera workshop.

In his fourth year at UCLA he began attending the USC opera workshop. When he had completed his fourth year of graduate school at UCLA he dropped out and took a job as a technical writer for Inference Corp. to allow him greater flexibility and more time for music. After another year at the USC opera workshop, in the summer of ‘94, he became an apprentice at the Glimmerglass Opera in Cooperstown, NY.

The conservatives are coming!

The Republicans have arrived! On April 10, the Caltech College Republicans assembled for their inaugural meeting. Led by founders Dan Velez and Tak Cheung, and Vice-Chairman Dr. Eugene Talmage, the CCR ratified its constitution, elected officers, and charted its course for the future. Its ambitions are diverse, including non-partisan as well as Republican activities. In addition to the obligatory grass-roots campaign and voter registration drives, the CCR plans to help the city at large by participating in the Habitat for Humanity. The CCR will sponsor political talks given by community leaders. The club also plans to have fun, with a trip to the Richard M. Nixon library planned for this term, and future visits to the Reagan library and Dodger games in the works. Said CCR treasurer William Sharp on the new club, “With the lack of political awareness so prevalent here at Caltech, this club will serve a necessary role in spreading ideas and encouraging thought on the issues that face us today, whether or not people are actually inclined to vote Republican.”

For more information about the Caltech College Republicans, send email to Dan Velez at danvelez@cco.caltech.edu. The club is open to the entire Caltech community and you need not be a registered Republican to join. Look for flyers posted around campus for meeting dates, times, and locations.

Dean Elzinga

Dean was drawn to Caltech though his interests in physics... graduated from Caltech in 1989... went to graduate school in math at UCLA... began attending the USC opera workshop... became an apprentice at the Glimmerglass Opera.

COMET CHASERS: Hale and Bopp

The Conservativies are coming!

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COMET CHASERS: Hale and Bopp

Dean Elzinga

Dean was drawn to Caltech though his interests in physics... graduated from Caltech in 1989... went to graduate school in math at UCLA... began attending the USC opera workshop... became an apprentice at the Glimmerglass Opera.
Mike Westover enters. Baldeep Sadhal reports that the budget is nearing completion and will be mailed after the meeting.

Kiran reports the news regarding the van situation, clearing up all misconceptions and explaining the current situation, will be released soon. An article will be written in the Tech to explain the new van situation in the coming weeks.

Terry Moran and Heidi Eldenburg enter.

Terry reports that the Tech Traffic Chair is underpaid for the quality of the work being produced. He recommends that payment be done by flat (a four-page sheet). He is requesting $150 per flat. He feels that this payment per flat will encourage a larger Tech. He also proposes that some sort of a rate-limiting scheme be instituted. Heidi agrees that editors are underpaid and that the Tech can afford the changes. Maria requests that Terry present a written compensation schedule at the next meeting.

John Lin, in a fit of coughing, leaves the ASCIT office.

Andrew Strauss enters. A redesigning of the Tech and Big T offices will occur, in order of individual tasks into different rooms. Space will be available for permanent archives. Kiran Shekar leaves the building.

Adrienne has met with the ASCIT social team and representatives of house social teams about the Prefrosh Party. A DJ has been hired. The theme for the party will be "spring." Adrienne also proposes that part of her budget be used to purchase serving dishes.

Mike reports that there was an ARC meeting last Tuesday.

Baldeep reports that he changed the date on the ASCIT webpage.

Maria reports that this term BoC Talks are coming up. Your friendly local BoC Rep will contact you. She also requests that it has been requested that ASCIT make a showing at the Prefrosh Club Fair. Maria says she won’t be able to make it because she has to talk to "fat, rich alumni." Student Affairs has offered to purchase a new monitor, and the consensus of the BoD is that the monitor ought to be purchased. The Faculty Board has proposed that the list of colleges participating in the 3/2 program be expanded to include historically black colleges and historically female colleges and universities.

Mic Westcoat leaves.

John Lin enters. Meeting closed at 11:40 p.m.

Meeting opened at 11:40 p.m.

Meeting adjourned at 11:47 p.m.
Tennis beats wind, wins 6-3

BY AMANDA SCHAFER

Caltech's women's tennis team competed at the SCIAC tennis tournament this weekend at California Lutheran University. The team enters the tournament in fifth place, and is scheduled to open against fourth-ranked Occidental College Friday morning in the first round.

The team is confident that they can beat Occidental in the tournament, despite a disappointing 7-2 loss at the hands of the Tigers last Saturday. Alexis Johnson won her #1 singles match, and Johnson teamed with Amy Chang-Chien to win at #2 doubles, both in two sets.

With Amy Chang-Chien to win at #2 doubles, Lena Petrovic and Natsumo Kagawa won 8-5. Irene Wong returned from an injury to play in her first match of the season, paired up with Amanda Schaffer to win 8-3 at #3 doubles. In singles play, Kagawa, at number two, won in three sets, 1-6, 6-0, 6-2. Amy Chang-Chien (#3) won 6-4, 6-1, and Audrey Lee (#4) won easily, 6-1, 6-0. Wong also played singles and came away with a 6-1, 5-7, 6-2 win.

After spring break, the Lady Tigers eased back into the season with an alumni match on April 5. It was a day of fun doubles for everyone involved. Since only three of the alumni could make it, Coach Nelson recruited some others to help even it out. The Alumni that made it included Fiona Lo ('92), Jill Booth ('94), and Monica Silva Shorman ('95). They were joined by Denise Gabaldon, Kenny Ritchie, and Bryce Englebrecht ('96) and a good time was had by all.

The team is confident that Caltech's women's tennis squad will dominate the SCIAC this year. Dan Kleinman, who also competed at the Stanford Invitational, ran his first 10,000 meters on a track and had an exciting race. He ran a 31:59, putting him at the top of the field.

On March 29, Caltech took seven athletes to the 1st Annual Reel Invitational at Claremont. Coming off a great week at Stanford, Kleinman and Kleinman concentrated on their speed work by competing in the 1,500 and 800. In the 1,500, Dan Kleinman finished second with a time of 4:49 and Kleinman finished third with a time of 4:09. In the 800, Henderson finished fourth in 2:30 and Kleinman came in second with a time of 2:04.

On April 18, the 1,500, 800, and 1,500, in addition to the 4x400 meter relay, went to the Invitational and the 1,500 and 800, as well as the 4x100 and 4x400 relay teams. The first place team of the 4x400 was Detweiler, Hiestand, Reed, and Wu. They finished in 3:42.

Sports

Beavers make a run for it

BY CALTECH SPORTS DEPT

Cailin Henderson met a professional qualifying mark for the NCAA in the 3,000 meters with a lifetime personal best at the Stanford Invitational March 22. Her time was 10:12.21, which was 20 seconds faster than her previous personal best.

Karl Thalin winds up for the discus.

In the 5,000 meters, Kleinman finished 1st in a time of 16:07, forty seconds

lead over the 2nd place finisher, Cailin came in first in the 1,500 with a time of 4:58.8. She finished the 800 in a time of 2:50.1 which put her third place. Caltech Men's Track fielded its first 4 x 100 relay team of the season.

Chris Kurtz lead the team off and handed off to Tim Yarnall. Yarnall handed off to Evan Reed, who passed the baton to Kejian Wu. Wu crossed the finish line in a time of 46.65. Kurtz, Reed, and Wu also competed in the 100 and 200. In the 100, Kurtz had a personal best of 11.89. Wu and Reed ran an 11.98 and 12.33, respectively. In the throwing events, Karl Thulin threw the discus 113'9" and put the shot 39'10". In the Steeplechase, senior Chris Cary finished in 11:54.5. The Beavers had 4 entries in the 1,500. Greg Derwelser was the first Beaver to cross the finish line in a time of 4:43.27. Close behind him was Harmesh Lal (4:43.74). Bill Hiestand finished in 4:48 and Troy Lee ran in 5:12. In the 5,000, Kleinman finished 1st in a time of 16:07. Forty seconds before the 2nd place finisher. Lal also ran the 5,000 and crossed the finish line in 18:56. Brian Barris lead the way for Caltech in the 800, running a 2:04, which was only one second behind first place. For the last event of the day, Caltech had 2 x 400 relay teams. The first consisted of Kleinman, Kurtz, Reed, and Barris, finishing in 3:42.90. The second team consisted of Detweiler, Hiestand, Wu, and Cary. They finished with a time of 4:12.24.
The new mathematics core curriculum: a TA's perspective

by Mason A. Porter

Though Caltech's new mathematics core covers largely the same material as the old one, both the order and the amount of attention given to each subject has been revamped. Some subjects, such as elementary calculus of one variable, are being covered in less detail, while others, including probability and statistics, are being presented in greater depth.

As you probably know, this is the first year of Caltech's new core curriculum. The mathematics core curriculum was revamped perhaps more than that of any other department's. It is compressed from six to five terms, and many of the subjects in it are consolidated.

Previously, Math 1a covered basic calculus, Math 1b covered differential equations and complex numbers, Math 1c covered sequences and series, Math 2a covered linear algebra, Math 2b covered vector calculus, and Math 2c covered probability and a consensus that was reached that there was too little of each subject and the amount of attention given to each subject has been revamped perhaps more than that of any other department's. It is compressed from six to five terms, and many of the subjects in it are consolidated.

Math 1a covered calculus during the first two weeks, assuming that students were adequately prepared to begin a calculus course. This has been changed to include a review of concepts in calculus that will be covered in the subsequent term, and the material covered in Math 1a is now being taught in Math 2a.

Math 1b contains some of the material of Math 2a, and some of the material covered by the math core to one of the first term. The second half of the term consists of notes revised somewhat for next year prepared by Dr. Barry Simon. The second half of the term consists of probability, and a consensus was reached that there was too much material crammed into those five weeks. The textbook was

Probability by Jim Pitman.

Students in Math 0.9 spent ten weeks on calculus first term, and will have to take probability in some other manner. This can be done through Math 1d (if one can bear my lecturing) or through a summer "course" similar to the old Math 2b. The more interlaced among the students can attempt one term of Math 112, AMa 153, or AMaMa 144 in order to fulfill that requirement.

The new Math 1b corresponds roughly to the old Math 1c, especially for freshmen taking the analytic geometry. That track used Tommy J, while the practical track used Calculus B by Marsden and Weinstein, a book the math department is now attempting to replace. Most of us who tried to teach from it last term felt that it was too easy to be a good textbook for Math 1b.

Math 1c is composed of some of the old Math 2a and some of the old Math 2b. The new Math 2a will finish off linear algebra and have five weeks of statistics. Perhaps the biggest change in the new math core is in probability and statistics. Due in large part to requests from people outside the math department, probability has been transplanted from the last subject covered by the math core to one of the first. It is far from ideal to split courses as being done with both Math 1a and Math 2a, but a better solution has not been found.

Math 2b is slated to cover ordered differential equations, a situation that may prove problematic.

Students who did sufficiently well in Math 1 will be permitted to take Applied Math 95 as sophomores. The math and applied math departments are permitting the students new to this course to choose this route because there no longer is any advanced placement into Math 1b available.

However, students who elect to take AMa 95s as sophomores without having studied differential equations may have troubles. This course covers differential equations and methods of solving them, so having some familiarity with the material covered in the new Math 2b would be quite useful.

A report on the new core curriculum that was released last term included a statement that AMa 95 did not require any current sophomores mathematics courses as prerequisites. It seems so, however, that Math 2b should be a prerequisite for AMa 95. I am aware of discussions to change the order of the material presented in AMa 95 somewhat to be more congruous with the new core, but I do not know whether anything was done in that regard.

Now that these changes have been made, has Caltech's math core has been improved? I would guess that most people in the math department are not pleased that there is one fewer mathematics course in the core. However, reducing the math coverage by one term helps frees up units to be allocated elsewhere.

In other words, this change frees up units to be allocated elsewhere. Though some students may not appreciate having to take courses in a larger variety of subjects, it is probably better to expose them to sciences such as geology and astronomy.

I do hope, however, that some way is found to cover probability and statistics in one term so that one's courses do not completely switch gears in the middle of a term.
Events

+ This week's ASCIT Movie is "Raiders of the Lost Ark." It will be showing at 7:30pm and 10pm in Baxter Lecture Hall. Admission for ASCIT members is $2.00 and $2.50 for non-members. Prefresh get in for free.

Leon Silver, W.M Keck Foundation Professor for Resource Geology, and Professor Emeritus Brian Wernicke will present "The Assembly and Evolution of the Continents" April 18th, 1997 in Ramo Auditorium at 4:00pm as part of the Astronomy/Geology 0.1 seminar series.

+ The Watson Caltech Lecture "Geophysical Secrets Beneath Antarctic Waters" will be given in Beckman Auditorium, on April 23rd, at 8pm. The lecture will be given by Dr. JoAnn Stock, associate professor of geophysics. Admission is free. For more information call x4652.

+ "Argentina: The Land of Passion," an Armchair adventures travel film, will show in Beckman Auditorium. Travel lecturer Buddy Hatton will present the film at 8pm on April 25th. Admission is $7.00 - $9.00. For more information call x4652.

+ Spring Term Guitar Classes, Tuesdays, starting April 8th. Beginning: 4:30-5:00 pm to 3:00-4:00 pm. Classes held in SAC 1. Free for Caltech students (and staff if time permits). For more information contact (213) 456-0881, or idening@ecu.

Notices

New Course: SES/FLP 169 Contemporary Issues in History and Philosophy of Chemistry. Philosophers have recently begun to take an interest in chemistry because in posing the question of the reduction of the sciences, one cannot ignore the question of whether chemistry reduces to physics. If reduction even fails at the first hurdle, then there would seem little hope of achieving a more ambitious reduction like that of biology to physics. This course seeks to explore some recent issues in history and philosophy of chemistry, including the impact of discoveries made in atomic physics on chemistry. A survey will be made with reference to the history of modern chemistry, of questions such as whether chemistry is reduced to quantum mechanics, the role of atomic orbitals in chemistry, the history and theoretical status of the periodic table, the nature of explanations in chemistry and the debate regarding the relative virtue of prediction and accommodation by chemical theory.

Instructor: Diana Barkan and Erica Sperri. W/7pm to 10pm For more information contact the Counseling Center.

Mints

+ denotes a new announcement.

further details contact Eric Sperri, x4030, or sperri@caltech.edu.

Johns Hopkins University will be running a summer program for 7th and 8th grade students at Caltech this year. There are several openings for TAs, RAs, instructors, and office help. JHU will pay for room and board for the duration of classes and pay a stipend as well. The program will run from June 23rd to August 9th. If you are interested in applying for these jobs, please contact Keith Council as keith@ecu, at x3320, or in the Housing Annex between the hours of 8:00am and 5:00pm.

From the Counseling Center

The American Association of University Women offers a number of fellowships to women who are U.S. citizens or permanent residents, including one year post-doctoral fellowships and special dissertation fellowships. The international fellowship is awarded to women who are not citizens of the U.S. or permanent residents who are engaged in full-time graduate or post-graduate study in the U.S. A poster with a tear-off card that allows you to send for an application is posted on our main bulletin board.

From the Financial Aid Office, 515 S. Wilson, second floor:

The John Gyles Education Fund is offering financial assistance to students who are Canadian or U.S. Citizens. A minimum GPA of 2.7 is required for eligibility. Criteria other than academic ability and financial need are considered in the selection process. Selected students will receive up to $3,000. To receive an application, send a stamped, self-addressed, No. 10 envelope to:

The John Gyles Education Fund, Attention: R. James Cougle, Administrator, P.O. Box 4808, 712 Riverside Drive, Frederickon, New Brunswick, Canada E3B 5G4.

The Coalition of Higher Education Assistance Organizations (COHEAO) is pleased to announce the continued availability of financial support for Jewish individuals and their families. JPCS provides hundreds of students loans, grants, and scholarships to Jewish students. Individuals may apply for up to $5,000. Special scholarships are available for study in Israel. To be eligible, students must have financial need, have at least a 3.0 GPA, and be residents of San Francisco, the Peninsula, Marin or Sonoma counties, or the Bay Area. There are no deadlines—applications are accepted throughout the year and are available in the Financial Aid Office.

The sign-ups for the IHC appointed faculty student committees are up! Sign-up for your future position before you lose your chance at power and graft! Sign-ups come down on Thursday, April 17th, for the following committees:

+ Academic Policies/Curriculum
+ Educational Outreach
+ Freshman Admissions
+ Institute Programs
+ Scholarships and Financial Aid
+ UASH

The Jewish Family and Children's Services is pleased to announce the continued availability of financial support for Jewish individuals and their families. JPCS provides hundreds of student loans, grants, and scholarships to Jewish students. Individuals may apply for up to $5,000. Special scholarships are available for study in Israel. To be eligible, students must have financial need, have at least a 3.0 GPA, and be residents of San Francisco, the Peninsula, Marin or Sonoma counties, or the Bay Area. There are no deadlines—applications are accepted throughout the year and are available in the Financial Aid Office.