Artist Proposal Receives Money; Plans Reviewed

By CHRISTINE CHANG

Sensing a need in the Caltech community for an enrichment in the arts, Professor Pietro Perona, the head of the Arts Committee, has proposed a new Artist-in-Residence program, which would use the money obtained from the Moskowitz Fund to bring an artist onto campus to work with students and faculty.

"We feel the students at Caltech have a lot of creative abilities, but the outlets for them are not obvious," said Perona.

In bringing a permanent artist-in-residence onto campus, Perona hopes to create a natural place for students who are interested in art to meet with each other and exchange ideas. "I hope it will be a magnet for people who wish to create," Perona said.

For the artist-in-residence program, Perona wishes to hire an artist to stay on campus and work with students and maybe even faculty to create a joint exhibition. By coming to Caltech, he wants the artist to find inspiration in the science and research here.

"We want the program to increase the community's awareness of contemporary art and their own scientific work through the art," said Professor Tapio Schneider, another member of the Arts Committee. The artist-in-residence would also mentor interested students as they pursue their own art projects. Students would be able to observe the artist working from up-close and go to him or her for inspiration and advice.

Meanwhile, the students would act as guides to the artist, explaining what research is happening and the significance of it. "Students would act as a conveyer belt, as glue," Perona said.

Students for the program would be chosen according to whether they have a track record in the arts.

--------

Admissions Relocation Proposed For Friendlier, More Accessible Location

By K. SZWAVYKOWSKA

As many have already heard, the Undergraduate Admissions Office is leaving its top-floor location in the Center for Student Services (hereafter referred to as CSS) and moving just down the street into what is now the MOSH (Master of Student Houses) residence, Steele House.

The move was proposed to give the Admissions Office more room for the increased number of applications that it has been handling and to give greater visibility to the Office. Everyone involved with the move agrees that altogether, it’s a good idea.

"But in particular, what changes can we expect to see when the move is completed by winter term of this year? The answers to this question fall into three categories. First of all, there is the category of least direct impact to current Caltech students: the accessibility of the Admissions Office to prospective undergraduates. According to Daniel Langdale, Interim Director of Admissions, who voted in favor of the move, the office’s present location is "off the beaten track."

As he explains, it is difficult to reach the office, because the elevators are slow and the outside stairs leading up to the third floor are difficult for visitors to find. In addition to these annoyances, there is no-one in the reception desk in the downstairs of the CSS to receive visitors and help them feel comfortable on their first arrival at Caltech.

All this is going to change when the office is moved to the more "convenient and comfortable" location at Steele House. There, the first floor will house Daniel Langdale’s office and a large, comfortable reception area for visitors, while the second floor will be used as office space for admissions staff. Outside, the gate house will be used as a storage facility for files.

Visitors will be greeted in the downstairs area of the House by a receptionist and will be given a tour of the campus before returning to Steele for a movie about Caltech and talks with the faculty (under the current system, the tours begin at the Public Relations Office; afterwards, visitors are taken to the Admissions Office). Continued on Page 8, Column 1

Failure to Uphold Media Ethics by TV News Source of Dismay for Journalist

By KEVIN BARTZ

Car chases. Crime beats. Live TV. Jerry Springer. Is it all too much to take? "You might call it a symbiotic relationship between TV and viewer," explained retired journalist Howard Rosenberg, "but this time, there’s only one side in the symbiosis: as a viewer, you don’t even know you’re being handled in the process."

Back in his heyday, the Pulitzer Prize-winning 23-year L.A. Times entertainment writer once named the nation’s best television critic was able to work students and faculty, and a President whose post-Sept. 11 TV appearances he thought were a big plus. But in retirement, Rosenberg’s setting his sights on some of the larger problems facing television. Problems like ethics. Honesty. An audience hungry for fear. Enrollment executives, eager to provide: "It’s like a monster," he laughed. "You have to keep on feeding it. And after awhile, if you report on a rumor long enough, it takes on a life of its own."

On Thursday night, the nationally published commentator doled out a battery of criticisms, from broadcast failures to lackluster news shows, to a small group of student writers in Steele House and later a Beckman audience of local residents, students and friends.

Innovation to Speed Up Computers of the Future

By ROBERT LI

In 1944, the Harvard Mark I, the world’s first electronic programmable computer, could perform 1 floating operation (flop) a second. 38 years later, the NEC Earth Simulator, the fastest computer in the world, can perform at a peak rate of 40 teraflops per second, an incredible 13 orders of magnitude faster.

Last Wednesday, Dr. Thomas Sterling, a leader in the field of supercomputing, talked about the history of high-performance computing and discussed his future. The current system, the tours begin at the Public Relations Office and after- wards, visitors are taken to the Admissions Office. Continued on Page 8, Column 1
**Author Presents Research of Kennedy Family History; Examines Behaviors and Faculty**

By MEGAN GREENFIELD and LISA KIRKIN

Past National President of SWE speaks to Caltech SWE student section. By Megan Greenfield and Irum Parveen Bial.

On Thursday, November 6, 2003, Caltech’s Society of Women Engineers (SWE) student section had its first general meeting for the fiscal year 2003-04. The main highlight of the meeting was the speaker, Roberta Gleiter. Ms. Gleiter is currently a Project Engineer/Technical Manager at The Aerospace Corporation in Los Angeles. She is responsible for spacecraft engineering projects on the SBIRS High satellite program. She received an Aerospace Group Achievement Award for her work on DoD/NASA hardware contracts.

Some highlights of her involvement are that she represented U.S. women engineers at an international conference of Women Engineers and Scientists in Tokyo, Japan and testified before a Congression­al Commission about women in engineering.

Ms. Gleiter has been invited by the White House as well as the National Academy of Engineering to discuss issues related to women in the workplace. She was FY 99-00 Vice Chair of the American Association of Engineering Societies and FY 00 National Engineering Exploring Steering Committee (Boy Scouts of America). In addition, she has served the National Science Foundation both on a Federal Advisory Committee and as a panelist evaluating engineering research grant proposals.

She was a participant in the Summit on Women in Engineering in Washington, D.C. and is frequently a keynote speaker for various conferences and organizations such as ASME.

As far as SWE is concerned, Ms. Gleiter has been very active in the Society of Women Engineers in many capacities from President of the local Los Angeles Section and Director of the Region B, Caltech’s SWE region, up to national Awards & Recognition Chair, national Vice President of Student Services and finally national President of the Society itself.

During her speech, Ms. Gleiter not only emphasized the benefits of having a society where women feel the unity and encouragement of being in a profession that is highly dominated by men, but also spoke about the key characteristics required in becoming a leader as a student and its benefits in industry, academia or future careers in general.

She highlighted the importance of having a growing leadership spec­trum in the section and hence, encouraged freshmoman and sopho­mores present at the meeting to take up responsibilities with the society on a school, regional or even national level so that they might get leadership training is stretched up till the time they graduate.

She also related some interesting stories of how, over the years, she has seen tremendous improvement in the attitudes towards women in engineering and she claimed, that she was lucky to be in this current era especially when we compare to what it used to be, even ten years back when she was offered a librarian’s job with her engineering degree, just because there was something known as a “woman engineer.”

Agreeing with her on leadership issues, the Executive Committee of Caltech SWE pointed out how it was relatively easy to get a leadership role at a school like Caltech where the size of the student section was so small.

They pointed out that there were both advantages and disadvantages to having a small section. The advantage includes having a greater probability of getting opportunities to lead and obtain awards because of the small numbers, whereas the leading disadvantage was the lack of momentum and numbers in the group.

At other schools, like Arizona State University and Cal-Poly San Louis Obispo in our region, the Society’s regions, the numbers of women involved are so great that there is always energy and excite­ment where at Caltech, even though the Ed-Comm does the same amount of basic work, the numbers of members showing up can get discouraging at times.

Aren Leu, 05, a member of Caltech SWE, commented on the lack of enthusiasm and attendance, “I feel like we need more unity in Caltech’s female community. Sometimes because there are so many boys at Caltech, they just naturally dominate. Girls should take advantage of organizations like SWE to network and come together and utilize the energy and encour­agement generated by huge numbers of women who have the same aspirations and goals as everybody else in the group.”

The Society of Women Engineers was formed in 1950. It has over 17,000 members and is continuing to grow. The Rocky Nedyee Thon, on its mission statement are firstly, to stimulate women to achieve full potential in careers as engineers and leaders, secondly, to expand the image of the engineering profession as a positive force in improving the quality of life, and thirdly, to demon­strate the value of diversity.

**Rosenberg Targets Lack Of Reporters’ Discretion**

Continued from Page 1, Column 5

Dr. Spock: An American Life and reporter for New York Times, Ben Shneiderman, in a keynote address at the meeting, illustrated his point with a mon­itor of real news footage, he drew a contrast between newspapers, where scrutinizing editorial eyes filter out most day-to-day rec­ency and live, unsanitized tele­vision news—fertile ground for the three lies.

“Think of editors as like computer control panels,” he explained. “Not only safe, to be sure, but they do prevent some protection. TV is the opposite; it gets out and impreg­nates and your mind.”

Take Channel Tivo. Rosenberg showed footage of a car chase cur­rently occurring, one in which a pur­se snatched truck ultimately burst into flames along an interstate highway. A6顶 up his dog into the mini the mum inside pulled out a shot­gun and shot an onlooker on the road, the victim shot himself in the head—all on live TV.

Or Channel Four, which earlier this year broadcast a San Diego car chase that ended with the person committing "suicide by cop"—that is, purposely pulling a gun after his car had run out of gas, all hope lost. After a close-up of the police firing at the man, the newscaster's voice over was to do is to implore parents in the au­dience to "act responsibly."

"I'm like Animal Farm,” said Rosenberg. "The pigs have become human, the humans have become pigs. The antidote? "Watch with media coverage.

As far as SWE is concerned, Ms. Gleiter's speech was informative and influential. She emphasized the benefits of having a society where women feel the unity and encouragement of being in a profession that is highly dominated by men, but also spoke about the key characteristics required in becoming a leader as a student and its benefits in industry, academia or future careers in general.

She highlighted the importance of having a growing leadership spectrum in the section and hence, encouraged freshmoman and sophomore members present at the meeting to take up responsibilities with the society on a school, regional or even national level so that they might get leadership training is stretched up till the time they graduate.

She also related some interesting stories of how, over the years, she has seen tremendous improvement in the attitudes towards women in engineering and she claimed, that she was lucky to be in this current era especially when we compare to what it used to be, even ten years back when she was offered a librarian's job with her engineering degree, just because there was something known as a "woman engineer."

Agreeing with her on leadership issues, the Executive Committee of Caltech SWE pointed out how it was relatively easy to get a leadership role at a school like Caltech where the size of the student section was so small.

They pointed out that there were both advantages and disadvantages to having a small section. The advantage includes having a greater probability of getting opportunities to lead and obtain awards because of the small numbers, whereas the leading disadvantage was the lack of momentum and numbers in the group.

At other schools, like Arizona State University and Cal-Poly San Louis Obispo in our region, the Society’s regions, the numbers of women involved are so great that there is always energy and excitement where at Caltech, even though the Ed-Comm does the same amount of basic work, the numbers of members showing up can get discouraging at times.

Aren Leu, 05, a member of Caltech SWE, commented on the lack of enthusiasm and attendance, “I feel like we need more unity in Caltech’s female community. Sometimes because there are so many boys at Caltech, they just naturally dominate. Girls should take advantage of organizations like SWE to network and come together and utilize the energy and encourage­ment generated by huge numbers of women who have the same aspirations and goals as everybody else in the group.

The Society of Women Engineers was formed in 1950. It has over 17,000 members and is continuing to grow. The Rocky Nedyee Thon, on its mission statement are firstly, to stimulate women to achieve full potential in careers as engineers and leaders, secondly, to expand the image of the engineering profession as a positive force in improving the quality of life, and thirdly, to demon­strate the value of diversity.
Continuing the Quest for Good Faculty Relations

By TOM FLETCHER

 COMMITTEE REPORTING AND TRANSPARENCY (again)

By the time you read this (hopefully), the committee reporting mechanisms should be in full swing. I serve as the alternate on the library committee, and at last week's first meeting of the year, I was given the chairman's summary of the meeting. After getting them approved by the chair (a back-and-forth process that took about four days), they were ready for public review. We are still working on getting the donut website set up for those of you who are curious to see them.

To help committee representatives get things out of the summary from the meeting I went to so people start to get an idea of what I hope they will do. I'm very pleased to report that some reports are being read and reviewed by anyone interested in new campuses, committees, or student organizations.

Now I just want to close by reminding you why this matters. Two years ago, a sit-in was held on the Olive St. side to protest administrative decisions on health care that students did not appreciate. The students wanted the administration's attention and things were changed back. This was a success, but with a high price: relations across campus were strained and money was wasted switching contracts back and forth. The truth is, not all sit-ins result in health insurance policy made in a student-faculty council, but the administration has learned that things are mostly quiet, delinquent, or uninformed.

The idea behind this resolution is to nip these issues in the bud, before they blow up. Students should also gain more influence because we can come to the table with a united-and informed-group of people, ready to resort to desperation tactics like a sit-in. I hope that everyone understands the importance of trying to make this cultural change and does their part in this effort. I for one will appreciate it greatly.

Whom I Met With This Week

My meeting with Margo Marshak was relatively uneventful, as it has been for a few weeks. Some may ask why I continue to go to these meetings and report on them. Well, first, it is important to keep lines of communications open and used. Strange times from PS 12: trust only occurs in repeated games where payoffs farther down the line are increased by cooperation. If it still doesn't make sense, take the class next term (registration begins soon). As for the second, keeping you informed of my actions allows you to influence them and check on what I am doing.

I also met with Dan Langdale and impressed upon him the importance of lengthening Freshman Week back to four days. We discussed ways to do this for an hour, and he will do his best to pay for fewer Fly-outs, find ways to skip, or get funding from other parts of campus to make the full event possible. I am hopeful that the students will be asked to sponsor this event again. Additionally, if you want to unoffi- cially host "off-season" pre-frosh for a day or so, let me know.

Friede Chat

For don't forget Day of American Innovation. We discussed the idea behind this resolution is to import upon him the importance of trying to make this cultural change and does their part in this effort. I for one will appreciate it greatly.

Whom I Met With This Week

My meeting with Margo Marshak was relatively uneventful, as it has been for a few weeks. Some may ask why I continue to go to these meetings and report on them. Well, first, it is important to keep lines of communications open and used. Strange times from PS 12: trust only occurs in

As a CalTech student or staff, you get the following discounts.

**$75 Credit** on accessories when you activate your new phone on a one-year contract with CelluTouch Communications.

**FREE**

Motorola 160c Save $100

New Phone! $109.99 NEC 515 AT&T $99.99

Free Siemens 545 Cingular $89.99 xingular

For more information call:

CelluTouch

901 E. Del Mar Blvd. Pasadena, 91106
(at Lake Ave.next to Baja Fresh)

Tel. (626) 229-9911

*Limited Time Offer! Some restrictions apply.
Fletcher: A Poor Model for Student Leadership  

BY JASON SCHADEWALD

Tossing around useless criticisms seems to be gaining popularity in The Tech lately. I’ll admit right off that I am no stranger to venting scathing, unproductive criticism verbally or in spam-email form to the entire BoD, especially when the criticism is directed at Tom Fletcher. In this article, however, I will refrain from that language in order to present a more informative case. I would like to indicate the irony of the response by Nick Rupprecht (“See your vote matters,” 4), which was sent to Wasem’s letter to the editors two weeks ago. Perhaps this is what the authors are attempting to achieve, but it seems that phrases such as “[Wasem] is an arrogant, self-absorbed human being that has little to no real ability for commentary” is precisely the language at which the authors took offense. While they may have been paraphrasing Wasem’s prior letter, this is no excuse for using the same language in the same malicious manner purported to be “neither intended nor informed.”

One line in particular, referring to Wasem’s wish to “waste space in the Tech,” is a point of interest to me. Regardless of what anyone may think of Wasem’s letter, he does have an explicit right to voice his opinion. Personally, I found his letter to be quite entertaining and one of the most worthwhile things I’ve seen in The Tech next to the Crippling Depression comic strip.

"Personally, I found his [Wasem’s] letter to be quite entertaining and one of the most worthwhile things I’ve seen in The Tech next to the Crippling Depression comic strip."  

For example, it seems to me that Wasem’s article generated a response that is quite ironic and that his own opinion advocating for student opinions to be heard by the administration is instead representing his own opinion. Do you not have the right to voice your opinion? Does it matter whose numbers it is? Why are you labeling people’s numbers as wrong or right? Just because the numbers aren’t what you want them to be doesn’t mean that they’re wrong. The census numbers are available from the U.S. Census website (http://www.census.gov), which was last updated on February 19, 2003.

Well, it depends whose numbers you look at. According to U.S. Census numbers (downloadable from www.census.gov), that number was more like 32%. That’s a little bit more reasonable. Thirty-two percent of 18-24 year olds voted. But wait, that includes all of those felons and foreigners. Let’s not have them bringing down our youth’s civic pride score. There were roughly 26.7 million 18-24 year olds in the U.S. in 2000, about 2.7 million of which were non-citizens. If you remove them from the population, then your number jumps up to 36%.

What about the felons? Well, felons are in a kind of legal situation. Prison inmates may not vote in 48 states, and most states bar non-incarcerated felons (i.e. parolees) from voting. This disenfranchise­ment, or right to vote, is not unique to United States. In Britain, for instance, once a person is released from prison they are eligible to vote, and in Ireland, you can vote while in jail—gotta love the Irish. In fairness to Maine and Vermont, prisoners in those states are also allowed to vote.

Back to the mention at hand; how many of those 18-24 year olds were actually eligible to vote? It seems that roughly 4.7 million American citizens were disenfranchised due to felony convictions. Let’s assume all of those 18-24 year olds were not eligible to vote.

Of course we’re not trying to bolster our numbers here. If that were the case, the percentage of eligible voters, age 18-24 who showed up for the polls in the last presidential election: 45%. Hey, that’s not too bad, except when you consider that out of the total population, roughly 61% of those eligible voted. And when you take into account the fact that not all felons are under the age of 25, that 45% number drops quickly. If fully half of the disenfranchised felons (those under 25, the 18-24 voter turnout is more like 40%. Slightly more depressing, if we ignore the felons for a moment and just look at smaller age ranges, only 29% of 18-20 year olds, 30.5% of 18-19 year olds, 31.3% of 18-20 year olds, and 32% of those who are 18-20, from all 50 states exercised their voting rights. How does that even make sense?

So what does this mean, on a national scale? Let’s see what young people voted with about the same frequency as the general population: about 6.4%. For the 23.9 million potential young voters, this comes out to about 14.6 million votes. Now, 8.6 million young people actually did vote, so we’re talking about a swing of about 6 million votes, or about 5.4% of the total national vote. For reference, there were 15 million votes cast in the 2000 election for which the margin of victory for the various candidates--who knows, maybe just woozy from breathing marijuana--was closer to 500. Nonetheless disconcerting to think that the margin of victory in the last presidential election was less than the differential apathy of college age Americans.

Why are young Americans less likely to vote than their elders? Is it that political campaigns don’t own enough to target young voters? Maybe, but most programs and candidates that have gone after the youth demographic in the past have failed to connect with youth voters. The notable exception to this was Bill Clinton’s 1992 campaign which drew almost 45% of eligible 18-24 year olds to the polls, the highest youth voter turnout in any election when 18 year olds could first vote in a national election.

For statistical information on youth voting, take a look at the Youth Vote Coalition’s Youth Vote Fact Sheet (http://www.youthvote.org/info/ factsheet.htm). The census numbers are available from the U.S. Census website (http://www.census.gov/population/www/socdemo/voting.html). And for more on non-incarcerated felon voting and how it would have affected past elections, see The Honest December 2002 article in the American Sociological Review (http://www.asanet.org/pubs/uggen.pdf).
We're good at fitting people to jobs.

And jobs to people.

It wouldn’t be clear to every firm that a man with an M.F.A. in poetry was the right choice to head an automated block trading unit. Or that a designer of solar-powered race cars was the right woman to help launch a new venture in computational chemistry. But after we talked to them, it was clear to us.

The D.E. Shaw group is an investment and technology development firm. Since 1988 we’ve grown into a number of closely related entities with approximately US $5 billion in aggregate capital by hiring smart people from a wide range of backgrounds and letting them implement—and manage—what they invent.

The D.E. Shaw group will host an Info- Mart session on Monday, November 10 at 3:30 pm in the Chris Braunstein Conference Room at the Student Services Center. On-campus interviews will take place.

For more information or to arrange for an interview, please send a resume and cover letter stating your GPA and standardized test scores, broken down by section where applicable, to onecampus@deshaw.com.

oncampus@deshaw.com

THE CALIFORNIA TECH COMMENTARY
NOVEMBER 10, 2003

Oetzi the Iceman Causes Uproar Then And Now
Dean Revel Examines the Wonders of Technology in Unlocking the Past

By JEAN-PAUL REVEL

I recently came across a piece of news from very long ago, which is so astonishing that I thought I would share it with you, just in case you had not heard the story. It seems that, pursuant to a lawsuit they filed, Erika and Helmut Simon were officially declared the discoverers of Oetzi the iceman. Oetzi is the fellow who was found in 1971 sticking out of the ice at about 10,000 feet up in the Tyrolean Alps. There followed an official investigation (was he a murder victim or a lost climber?) but after a few days and finding a copper headace as next to him it be came clear that he was an archaeo logical find. His mummified corpse was flown down the mount ain and placed in the cold room at the medical school in Innsbruck (Austria). There followed a tug of war over who “owned” the body, the Austrians or the Italians. The Italians won by not quite one hundred meters and so the body is now stored in a small museum in Bolzano (Italy). As he finds, the Simon’s are apparently entitled to a reward equaling 25% of his value. Value? Monetary value? I guess you have to pay an entrance fee to the Museum, and I understand the Simons want a plaque commemorating their discovery. Tacky, I say.

Carbon dating tells us Oetzi lived some 5200 years ago. He was tattooed, measured 5 ft 3 from head to toe, and by examining the structure of his bones (bones get remodeled in a characteristic pattern during life) it is found to have died when he was somewhere between 40 and 50 years old. Actually a ripe old age for people of that era. He had shoes with a stuffing of straw to keep the feet warm, underwear and leggings, a cape of vegetal fibers and a cap of bear fur. He had a long stick, a copper ax, a flint dagger and a sheath for it and a quiver with several arrows, some of which were broken. He also had a birch bark container which seems to have served to carry embers, and a small bag attached to his belt with fire making materials and other implements. Some of these objects had been carefully placed on a small ledge near where the body was found. At first Oetzi was thought to be a herder who was caught in bad weather while chasing an errant sheep, or may he be going over the mountains to visit family living on the other side, when an early fall storm did him in. Actually pollen grains recovered from his digestive tract are clearly from trees blooming in late spring-early summer. Pollen gets ingested by drinking water from open air springs or streams, so that says Oetzi was going up the mountain in the spring, not the fall. The pollen also indicates that he came from Northern Italy, not Southern Austria, assuming today’s distribution of the plants from which the pollen originated, has remained the same since Neolithic times.

By comparing the Strontium and Lead isotopes in Oetzi’s dental enamel (formed when his teeth developed in infancy), to the composition of the rocks in the general area, a group of scientists from the Austrian Academy of Sciences found that he was arrived at the conclusion that there is a close match between the Pb/ Sr ratios of his enamel and that found in the rocks near the present site of the village of Feldthurns. A Mehr of copper age near by suggests that people were in the area at the time. Bones, I have said, are remodeled all the time. As a result the mineral content of Oetzi’s bones reflects the mineral composition of the environment where he spent his latter years. Of course only works if the food he ate was grown locally, as likely in the absence of supermarkets and an interstate system.

To pinpoint a unique location the geology needs to be highly varied as it is in that part of the Alps. Comparing the ratio of Strontium and Lead in his bones to that of the different types of rock in the same general region on the one hand and noting the OHS to O16 ratio (the heavier isotope drops out first as rain travels from the Atlantic toward the Alps and also with altitude; while rain from the south, the Mediterranean has a shorter distance to go, and so is richer in O18) suggests the adult Oetzi lived not where he grew up, but some 60 miles east in the Elshc valley. Tiny pieces of mica were found associated with the food he had consumed (presumably derived from local stones used to grind up cereals) also showed a “home” in the Elshc Valley. A DNA analysis of the scant stomach and intestinal contents revealed that his last meal was composed of Red Deer meat and possibly cereals. Before that he had had a meal of Ibex, a mountain goat, and different species of leafy plants (the idea of having salad with each meal seems to be an old one) and cereals as well.

The body was examined multiple times with more and more sophisticated techniques, and it became clear that Oetzi suffered from a lot of illnesses. He had worms, there were signs of osteoarthritis, as well as indication of arteriosclerosis. The local radiologists thought they saw some freshly broken ribs. Further studies showed that was a mistake, but revealed a dark shadow in the area of the shoulder of the body, which turns out to be an arrowhead which had been missed. In fact there was a small hole in the skin (and on the cape) where the arrow had hit him. When Oetzi was shot in the back!

And then other things were discovered. One of the alpine guides who came to the scene after the body had been discovered had said, on the bered that when he first saw Oetzi there was an object in his right hand. A movie shot at the time actually shows one of the “rescue” workers reaching for and throwing something away, which when zoomed on turned out to be a flint dagger with a wooden handle. The dagger was brought down into the mountain with Oetzi and his other possessions. A recent investigation of the palm of the right-hand (which had held the dagger) revealed a deep gash. The shepherd sure seems to have been in a fight. A filmmaker working on a documentary suggested one should look for blood traces on the iceman’s body, tools and clothing. DNA analysis revealed DNA (from blood?) from at least 4 different people. Blood from someone other than Oetzi was on the knife blade, blood from two other people was found on one arrow, and one more person bled on Oetzi’s cape. The blood found on the arrow can be interpreted to mean that Oetzi, after he killed one assailant retrieved the arrow and used it on someone else. And maybe he carried the body of a wounded (slain?) companion (aggressor?, but that does not make to much sense) all presumably before being ambushed himself and eventually dying, perhaps from loss of blood in that rock hollow where he had stayed waiting for the Simon’s to show up.

What we have learned in fits and starts about what happened on that spring day 3000 B.C. is indeed amazing. Don’t you think so?

A hint.

Ref: Oetzi’s story is well summarized in a Science magazine “News of the Week” item (v 302, p759, 2003) and an article by Muller et al. (v 362).

More is found in a Smithsonian article of Feb ’03 by Bob McCullen. Links to other articles on the topics can be found in “Scicoop” (www.scicoop.com/story/2003/09/12/4194/25958).

Oetzi was found in 1971 in the Tyrolean Alps. Research since has shown that he was a shepherd butchered in the spring of 3000 B.C.
These classes will focus on presenting the American Tango Show. All qualified and interested Caltech Ballroom Dance Society of Geology members will present the first ever Scholarships of $2,500 for undergraduate students. Students are encouraged to apply. Applications are available in the Financial Aid Office.

The Measurement Science Conference (MSC) has established a scholarship program to fund students in an Engineering, Science or Quality Assurance degree program. The scholarship program places emphasis on experience or accomplishments related to the application or advancement of measurement science technology. To be eligible for one of these scholarships, individuals must: have completed at least 24 units in an advanced division courses in an Engineering or Science Degree Program or five courses in a Masters Program in Quality Assurance; have an overall grade point average of 3.0; and be a U.S. citizen, or be able to attend the Measurement Science Conference on January 16, 2004 in Anaheim. Submit an application before November 28, 2003. Applications are available in the Financial Aid Office.

If you are a graduate student who needs help publishing a thesis, call Eric-JPL tech writer/editor
Jodi Hester
(310) 457-7413 or (310) 367-4489
Email: jodi.hest@earthlink.net

If you are a graduate student who needs help publishing a thesis, call Eric-JPL tech writer/editor
Jodi Hester
(310) 457-7413 or (310) 367-4489
Email: jodi.hest@earthlink.net

- The San Fernando Valley Chapter of Americans United for Separation of Church and State announces their 4th Essay Contest for students enrolled in Community Colleges, Colleges, and Universities in the counties of Santa Barbara, Ventura, Los Angeles, Orange, San Bernardino, and Riverside. Essays must be no more than 2,500 words in length, and tell, in your own words, why it is important to you to maintain independence between church and state. 1st Prize $1,000 2nd Prize $500 3rd Prize $250. Essays must be mailed and postmarked no later than December 31, 2003. To: Church and State Essay Contest P.O. Box 806 Northridge, CA 91327-806. For more information see their website: www.au.org/esaysawebpage2.htm.

**STUDENT TRAVEL**

**www.campusfundraiser.com**

**S.T.A. TRAVEL - WE'VE BEEN THERE.**

- Beat the prices from LAX. Subject to change and availability. For more information, please visit: www.campusfundraiser.com.
Center for Excellence in Education To Sponsor Summer Research Program

By JILL PERRY
PASADENA, Calif. - Virginia-based Center for Excellence in Education (CEE) and the California Institute of Technology today announced the inauguration of the Research Science Institute (RSI), a six-week summer program for academically talented high school science students. RSI at Caltech will encourage excellence and leadership in science and technology and further international understanding among future leaders.

From June 27 to August 7, 2004, the RSI program at Caltech will host 36 highly achieving students—25 from the U.S. and 16 from other nations.

The program at Caltech complements the Research Institute at MIT, which has been collaboratively sponsored by CEE and MIT for the past 11 years. RSI, offered free of cost to students, combines classroom training and research memberships.

Considered one of the most prestigious and competitive science programs for high school students in the nation, RSI has more than 1,400 alumni including student scholars from 46 nations.

High school students are selected based on SAT scores, teacher recommendations, participation in science competitions and community service. Students' SAT scores generally range in the high 1,500s to 1,600.

RSI alumni go on to participate and win prizes in science competitions. In 2003, alumni earned the top price of $100,000 scholarship awards in both the Siemens Talent Search and the Siemens Westinghouse Competition.

According to Joan DiGennaro, president of the Council for Excellence in Education, "A progressive RSI is more essential today than ever before in the history of our nation. U.S. competitiveness in science and technology depends on securing math and science skills and on opportunities that go beyond what is offered in a typical high school.

Commenting on the establishment of RSI-Caltech, Gayle Wil­liams, dean of the College of California, Caltech trustee and CEE trustee says, "This excellent program is aimed at the establish­ment of the new Research Science Institute at Caltech. It is a tes­timonial to the success of the Center for Excellence in Education's ex­isting programs. Now that RSI has found another home at Caltech, the Center will be able to offer its pro­gram in partnership to students who, though highly qualified, could not be accepted into the program because of space limitations."

Caltech president David Balti­more says, "You should be equally impressed with the new program. "Caltech is proud to co-sponsor the Research Science Institute. RSI is a natural fit for us since Caltech is an institution that strongly supports and values su­dient research. We look forward to our new partnership with the Cen­ter for Excellence in Education and the ability to serve many more young students."

Students can apply for RSI on line at http://www.coe.org/rsi. Application forms will be available start­ing November 15 at that site.

The Center for Excellence in Edu­cation coordinates programs for academically talented high school and college students including the RSI and the USA Biology Olympiad. It was founded in 1983 by the late Admiral H.G. Hickover and Joan DiGennaro, President of the Center for Excellence in Education. Luminaries such as President Jimmy Carter, Senators Joseph Lieberman and Bill Frist and Secretary of State Condoleezza Rice all served on the CEE board. Caltech trustee Shirley Malcolm will serve on the center's board.

President David Baltimore announced a partnership between Caltech and the Center for Excellence in Education that will bring high school students here to do research every summer.

Men's Soccer Ends Losing Streak

By MIKE RUPP
Athlete of the Week
Chris Habliston
Men's Soccer
The Junior from Eugene, Oregon scored the game-win­ning goal against Whittier with 1:44 left in the 2nd overtime, snipping a 68 match los­ing streak that had stretched over four sea­sons. Later in the week Habliston would col­lect an assist on Sophomore Stuart Ward's goal against Colorado College. For the sea­son, Habliston leads the team with 3 goals and 7 points.

Women's Volleyball
Caltech (9-23) ..... 0
POMONA-Pitzer ..... 3
Caltech ..... 0
Chapman University ..... 3
Caltech ..... 0
Whittier ..... 3

Week in Review
The Women's Volleyball team's season is winding down. Junior Setter Collie Woody broke the team this week with 20 kills in 9 games for a 2.22 kill/game average and a .313 kill percentage. Woody also led the team with 20 digs. The team had its final home match on Tuesday against Redlands.

Men's Soccer
CALTECH (1-18) ..... 3 (OT)
Whittier ..... 0
Pomona-Pitzer ..... 0
Caltech ..... 0
Colorado College ..... 10

Men's Soccer (1-18)
With 1:44 left in the 2nd overtime period, Junior Defender Chris Habliston broke Caltech's 68 match losing streak with a 2-0 victory over Whittier College. Sophomore Forward Stuart Ward got the Caltech offense going midway through the first half as he broke the Whittier defense for his second goal of the season. Sophomore Midfielder Alexander Schroeder was the game-winner for Caltech a 2-0. After Whittier sent the match into overtime with two 2nd half goals, Senior Jim Alexander Sutherland would later give Caltech the victory. The losing streak had dated back to 2000, and the victory was the first for sec­ond year Head Coach Rolando Uribe. The Men's Soccer team finished the season on Wednesday.

Cross Country
The Cross-Country teams competed this past weekend in the 2003 SCIAC Conference Championships. Lead by Senior Gustavo Olm, the Men's team finished in 6th place among the 8 teams participating. The Women finished 7th, and were lead by the performance of Senior Tamara Becher. The teams run next at the NCAA Regionals on November 15th.

Men's Water Polo (8-11)
Men's Water Polo
Caltech (8-11) ..... 3
LA VERNE ..... 14
Caltech ..... 10
Pomona-Pitzer ..... 16

The Men's Water Polo team saw its conference record fall to 0-5 this past week, with losses to La Verne and Pomona-Pitzer. Top goal-scorer for the week was Senior Sam Rebesco with 5. The team plays its next matches this Wednesday at home against Oc­cidental.

Fencing
The Fencing team had an excellent start to their season at the UC Irvine Invitational. Senior Walter Howard was defeated in winning the Women's Epee bracket, and Vanessa Heckman was evenly impress­ive in coming in 3rd place in both the Women's Foil and Women's Sabre. The team plays next November 15th at UC San Diego.

Trustee Launches This Year's Diversity Series

PASADENA, Calif.—Shirley M. Malcolm, head of the Directorate for Education and Human Resources Programs of the American Associa­tion for the Advancement of Sci­ence (AAAS) and a leading author­ity on education and science lit­eracy, will speak at the California Institute of Technology at 4 p.m. Tuesday, November 11, in the Beckman Institute auditorium.

The lecture is free and open to the public. The subject of Malcolm's lecture will be "Let Nature Take Its Course: Diversifying the Talent Pool for Science and Engineering."

Her appearance at Caltech is spon­sored by the Office of the President, the Office of Minority Student Edu­cation, the Women's Center and the Officers of the Faculty.

The lecture is part of the President's Lecture Series on Achieving Diversity in Sci­ence, Math and Engineering. In her positions at the AAAS, Malcolm oversees programs in education, activities for underrepresented groups and programs for increasing pub­lic understanding of science and technology.

She has served on the Na­tional Science Board and the President's Committee of Ad‌vance­ment of Science, Tech­nology and is currently co-chair of the Gender Advisory Board of the United National Commission on Science and Technology for Development.

She has been a Caltech trustee since 1999.

Malcolm received her bachelor's degree with distinction in zoology from the University of Washington, her master's in zoology from UCLA and her doctorate in ecology from Pennsylvania State University.

During her career she has chaired numerous national committees ad­ressing education reform and ac­cess to scientific and technical edu­cation, careers and literacy.

She currently sits on several boards, including the Howard Heinz Endowment; the H. John Heinz III Center for Science, Eco­nomics and the Environment; and the National Park System Advisory Board.

She is also an honorary trustee of the American Museum of Natural History, a regent of Morgan State University, a fellow of the Ameri­can Academy of Arts and Sciences and the 2003 recipient of the Na­tional Academy of Sciences Public Welfare Medal.
To make the office more accessible, a ramp will be built up to the Steele House porch to accommodate mobility and accessibility needs.

The changes are significant, as Caltech sees several thousand visitors each year (about 3100 during the time between June 2002 and June 2003) of them prospective students and parents. For them, the new location will help to give a better impression of Caltech.

While some of the Admissions staff were "surprised" when the move was proposed, most agree with it. The hope is that it will benefit the Admissions Office in many ways.

"It's a really good move," says Erica O'Neal, Associate Vice President for Student Affairs, adding that the move will give the Admissions Office the visibility it merits as the metaphorical "portal to the Institute."

She says that the current location for the office was chosen so that it would be together with all other Student Affairs offices, to facilitate communications.

On the other hand, the location is not very user-friendly and attracts visitors, she says, is a "lovely, welcoming space." Langdale jokingly adds that he looks forward to being the only Director of Admissions in the States to invite people to wear their bathing suits when they come to visit the admissions office; Steele house also has a backyard and a pool.

Of more immediate concern to Caltech students is the issue of where the MOSH will be moving when Admissions takes over Steele. For about thirty years now, Steele House has been the MOSH house, even at times when it was additionally used as office space by different departments.

Such an arrangement, however, would not be suitable now, as the job that the MOSH performed has evolved to match the large, comfortable house setting. The MOSH serves as a "liaison" between students and faculty, helping to mediate communication between the two groups by input in different committees and social events hosted at the MOSH house.

It was an important concern due to the need to access the Admissions Office, to determine where the MOSH residence should be moved so that the same events could continue. So, Catherine Jurca, the current Master of Student Houses, will be moving to a new house on California Blvd; a location she says is "very warm and very charming."

The house was previously used as temporary housing for new Caltech faculty, but is currently empty. It is built in a "Craftsman" style, which according to Ms. Jurca, is one of the nicest styles indigenous to Southern California, making it a good house for public exhibition as the MOSH home is expected to be.

The living arrangements will then have to be compatible with those at Steele House, with a private apartment on the second floor and a ground floor furnished for public events, where she will continue to organize the popular social events like the bimonthly movie showings and dinners that have been going on.

Also, the bottom floor of Steele house (except to be office of Dan Langdale) will be kept open for student use, as well as the backyard and swimming pool so long as students keep it, in the words of Erica O'Neal, "the warm and inviting place that we want it to be."

The third aspect of changes associated with the Admission Office's new location will be many associated moves between different offices for example the ITS office will move to the third-floor space which Admissions will vacate. These changes are still being worked out in detail. Overall, then, the move of the Admissions Office has been a popular one with the staff and hopefully will also be welcomed by prospective as well as current students.

Continued from Page 1, Column 3

**Question of the Week**

Would you meet with the Artist in Residence?

**Continued from Page 1, Column 5**

Sterling's DARPA Group Wants Petaflops by 2010

Continued from Page 1, Column 7

The California Tech Pasadena, CA 91126