

# Science Historian Named Caltech/Huntington Professor

#### A historian with interests as wide-ranging as entomology and Greek astronomy has become the first-ever Eleanor Searle Visiting Professor in the History of Science, a newly established joint program between the California Institute of Technology and the Huntington Library, Art Collec-

tions, and Botanical Gardens. Ido Yavetz, assistant professor at The Cohn Institute for History of Science at Tel Aviv University in Israel, arrived in Pasadena this fall and will remain for the academic year. Yavetz specializes in history of classical electromagnetic field theory, history of electrical technology in the late 19th and early 20th centuries, history of entomology in the 19th century, and history of early Greek astronomy.

Through the scholar program, he will teach two courses at Caltech and conduct research at The Huntington, in the area of ancient Greek astronomy. Yavetz earned his bachelor's degree and did post-graduate work in physics while earning a master's and PhD in history of science, all at Tel Aviv University. He was a visiting professor at Caltech in 1999-2000.

Each year the scholar will be chosen by the Caltech faculty with the advice and consent of the director of research at The Huntington.

The goal of the scholar program is to bring visiting faculty to Caltech with a superb track record in teaching, who can inspire students to think about the role creativity plays in the scientific process. A different perspective on the challenges that Copernicus, Galileo, Da Vinci, Newton, and Einstein confronted in their work and how they overcame them could be enlightening to today's scientists. Simultaneously, faculty members have the opportunity to exercise their own creative instincts in conducting research at The Huntington to help inform their teaching.

"The Huntington and Caltech were born at roughly the same time as research institutes and have remained close ever since," says Robert C. Ritchie, W.M. Keck Director of Research at The Huntington. "This gift furthers our joint goals in the history of science and honors a great scholar who enriched the intellectual life of Caltech and The Huntington."

By JILL PERRY

The program is named for Eleanor Searle, the first woman to hold a named professorship at Caltech. She was a world famous medieval historian, a popular teacher, and respected colleague during her time at Caltech, 1979 to 1993. She continued to conduct research at The Huntington until her death in 1999. The author of four books in medieval history that are still widely cited, her students and fellow faculty members were saddened when glaucoma cut short her career and forced her to retire early.

An anonymous local couple is funding \$100,000 in annual program costs during their lifetimes. They have established a \$2 million charitable remainder trust to eventually fund the Searle Visiting Professors Endowment and provide the program's permanent source of support.

Photo courtesy of dibinst.mit.edu

Ido Yavetz as imaged by one of the primitive electronic devices on which he is an expert.

# ASCIT Bylaw Changes Acknowlege Avery, Expedite Elections and Create House CRC Reps

#### By JOSEPHINE SUH

In an online vote that took lowing each House to elect its frame for submitting election the only one the students re- too put off by the change not

place in the last week of October, the students approved all but one of the bylaw changes that the Board of Directors at ASCIT proposed.

Six of the changes involved amending more than one AS-CIT bylaw, and concerned the definition of House, the logistics of the Conduct Review Committee, and election protests.

In particular, the first proposal on the ballot eliminated all references to the number of Houses and added a clause deferring to the Interhouse Bylaws for a House definition, in effect confirming Avery's new status as a House.

Alterations made with regards to the CRC bolstered its function and significance as a student representative body, alown representative and adding the committee's student chair to the ASCIT Board of Directors. Before, the CRC representatives had been appointed by the chairs of the BoD, IHC, and CRC.

A significant portion of the fourteen individual bylaw proposals, together with the sixth group bylaw change, was dedicated to improving election procedures. As a result of the approved changes, students will either place their ballot in a box outside the Tech Express or vote online at the DONUT site, in all future elections. In the case of a tie, another election will be held automatically, whereas a petition of 20% of people able to vote was required in the past.

More controversially, the time

protests will be reduced and the public announcement of results delayed, until all the protests have been settled. "One thing that bothered me a lot last year was when a second wave of elections had to be redone after a bunch of protests... I found it hard to believe that very few, if any, effectively made the election less valid. I figured a way to cut down on frivolous protests was to have the period for protests occur before the winners were announced," ASCIT president Warner Leedy '06 said. As for the opposition the proposal met, he commented, 'There were issues with the election protest changes...I don't know for sure the motivations of those issues."

The eighteenth proposition,

jected, failed to garner the two thirds of non-abstaining votes required for it to pass. Had it come into effect, it would have granted the Board of Directors the right to name an appointee in the scenario that three elections, held within a year, all failed to produce a valid winner. "I think this bylaw change didn't pass because people know that they can do a better job picking the candidate they like than somebody else can. Also, it prevents from getting in the messy situation where a) either the majority of the BoD was appointed by the rest of itself or b) somebody is appointed after losing an election to 'No'," Matt Walker '06 said. Leedy said, "Since it's a fairly unlikely scenario, we weren't passing."

The operation of the BoC also underwent some changes. A BoC representative will now need only a simple majority vote, instead of a three-fourths vote, to leave a case, allowing her or him to sleep or attend classes. In addition, the chair and secretary of the Graduate Board of Review, the graduate equivalent of the BoC, will be able to take part in hearings with both undergraduate and graduate students as defendants.

Asked for an assessment of the long-term impact of the bylaw changes, Leedy said, "We hope it would be that they make life easier for a lot of people - and not at the expense of functionality."

#### THE CALIFORNIA TECH COMMENTARY NOVEMBER 14, 2005

# Condom Sense at Caltech Thanksgiving Food Drive

#### By JANE CURTIS and ALICE M. SOGOMONIAN

Proper and consistent use of condoms makes common sense for the prevention of sexually transmitted infections, or STIs, and pregnancy. Your student health center and health educator can provide important information and products to help you enjoy a healthy, disease-free sexual relationship. STIs are a reality on our campus and on most college campuses through-out the country. With the holiday season around the corner, so too, are lots of parties and social gatherings, and the possibility of meeting someone special. Love may be in the air, but sex and alcohol are not too far behind.

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In the 2004 Caltech health survey, 48% of Caltech students reported not being sexually active. We all know this is the only sure way to avoid contracting an STI, to abstain from all forms of sexual activity, oral, anal or vaginal. Of the students who reported being sexually active, 24% did not use a condom the last time they had vaginal intercourse. As your health care providers, we would like all sexually active students to use condoms, which still offer the most reliable protection against STIs, including HIV, assuming they are used properly and consistently. If you are sexually active, you can minimize your risk of contracting an STI by limiting the number of partners, using latex condoms or dental dams during each sexual act, or by being in a mutually monogamous relationship with an uninfected partner. Open and honest communication about past sexual history and expectations is crucial to having a fulfilling, positive, and healthy relationship.

In a 2002 Centers for Disease Control & Prevention survey, http://www.cdc.gov/nchstp/dstd/ disease.info.htm, 50% of people ages 15-24 years will contract an STI - and become one of the 19 million new cases diagnosed each year. Human Papillomavirus, or HPV, trichomoniasis and Chlamydia are the three most prevalent STIs. These are serious infections with serious consequences. Women experience the greatest burden of STIs, suffering more frequent and serious effects. Women with HPV are at increased risk for cervical cancer. Chlamydia can lead to pelvic inflammatory disease, PID, which can cause chronic pelvic pain and infertility. Information is important. Please come to the healt $\bar{h}$  center and see one of the nurse practitioners or physicians for a thorough physical examination and discussion of your specific needs. This can prevent unwanted problems. Confidential STI testing is available for a fee at the student health center and can be done at the time of your visit. You and the nurse practitioner will determine what kind of testing is needed for you based on your sexual history and physical signs and symptoms. Experiencing sexual intimacy is fun and meaningful but still risky if proper measures are not taken. Knowledge about sexual relationships is as important in your college years as is knowledge about physics, math, geology, etc...Male condoms are available at no cost at the Student Health center, Health Education center, Women's Center, and Campus Life; RA's get house supplies, and the Health

Advocates carry a very limited supply in their first aid bags. To minimize breakage, keep them in a cool, dry place, not in your wallet, check the expiration date, and consider using a water-based lubricant, like KY jelly. Vaseline will render the condom ineffec-tive and should not be used. All condoms sold in the US are regulated by the FDA and have to meet strict guidelines for testing. Overwhelmingly, breakage issues tend to be due to improper use. We encourage you to visit the Caltech Health Education website and learn more about proper condom use under the Sexual Health link - 'The ABCs of Condoms'.

We also have available FDAapproved female condoms, for use during vaginal intercourse, and dental dams, 6"x6" latex barriers used during oral-genital sex or when performing oralanal sex or rimming. Due to the cost, we do not leave these in open spaces. For those few students who are allergic to latex, polyurethane condoms will be available at the health center soon. If you have an allergy to latex or are concerned about a possible latex allergy, proper laboratory testing can be done to confirm or refute this. A nurse practitioner can provide more detailed information if needed.

In closing, we expect some students to be sexually active during their college years. We want you to know about proper and consistent condom use and how it prevents STIs. As always, feel free to send comments or questions via email, or better yet, come in and talk with us. We are here to help you and answer your questions. Please drop off non-perishable food for local organizations (i.e. salvation army, stand up for kids) in boxes located at the following locations:

spalding procurement office, undergrad north houses, avery dining hall, human resources, chandler, red door cafe, caltech y, broad cafe, caltech credit union, physical plant (near key office).

Contact: wei@caltech.edu http://www.its.caltech.edu/~bbridges

## "O Mercy Me, God Bless Mediocrity"



The Other Side: New York Fischerspooner

Every once in a while, I get frisky enough to buy the most expensive, flashiest-looking CD I can find at the record store, whether I've heard of it or not. It's a big gamble in terms of what I'm paying vs. my satisfaction with the album. Of course, most of the time, this sort of thing ends badly. In the past, that's how I ended up with CDs like, "Spice World" (okay, so I was 11 when I made that choice...). Anyway, when it does end up working out in my favor, I feel like I've earned the right to be a snobby, musical badass. And that's precisely what happened to me this weekend when I picked up this CD at Amoeba. 'The Other Side" is actually a series of a three releases put out by Urbanation, dedicated to making the savvy music listener familiar with the local scene in some of the world's biggest cities. The collection includes The Other Side: Paris, and London, as well as New York. (I chose the New York edition because I was familiar with a few of the artists listed on the back of the case, and I love Fischerspooner a lot.) The package consists of a CD-DVD and a fatty booklet. The CD features a compilation of the best indigenous disc jockeys and mix masters, put together by an artist representative of the area. As for the DVD, the caption on the back of the case claims that it's a, "visual handbook for both the frequent

flyer and the armchair adventurer." Sounds good to me. When I stuck the DVD side into my computer, I got a whole menu of stuff to look at-art galleries to visit, little known spots in New York that only natives would know about, and 3 minute videos featuring Casey Spooner giving tours of Penny Park (man, when did he get fat?), etc. It's like a seasoned New Yorker took you by the hand and showed you all the secret stuff you weren't ever supposed to see as a tourist. The fatty booklet that comes with the disc is pretty awesome. They list the best venues in the area to go clubbing, as well as an overview of the general nightlife. I guess it's sort of the disc form of a "Not For Tourists" Guide for music. No frills, no gimmicky things-- the real deal at street level. They avoid telling you regular tourist crap that you could look up in any old brochure, like Statue of Liberty and Twin Towers, etc., because those sorts of attractions never you tell you much about the city or the citizens. At any rate, I am very satisfied with my \$15 purchase, and I will definitely consider collecting the other two cities. Wow, I like this disc so much. If I ever end up going back to New York, and I think I will, I'll definitely see it in a different perspective because of this CD.

Awesome.

By CINDY KO



#### Alkaline Trio- Crimson (2005)

Despite their undeniably unique sound, perfectly halfway between goth and punk rock, Alkaline Trio has made a niche for itself among modern punk rock bands. Their music, paired with lyrics delineating themes of drugs, failed relation-ships and the wrestling of personal demons, reaches a wide range of listeners from high school to college age to just about anybody. (As proof of this, I went to Warped Tour three years ago when they were on the bill. In the audience, there was this kid that couldn't have been more than 7 years old, sitting on his dad's shoulders, singing all he lyrics to their songs by heart The frontman was so impressed that he practically serenaded that kid while the rest of the audience watched in awe.) Matt Skiba, Dan Andriano and newcomer drummer, Derek Grant, have made their band one of the most respected names in music. That being said, their newest record, titled Crimson (2005), is their second effort since their move to Vagrant Records, after 2003's Good Mourning. Alkaline Trio has had many shining moments since their debut in 1998 with Goddamnit, but unfortunately, this is not one of them. Crimson counts as one of their weakest albums to date: too few really memorable tracks, which makes the album die halfway through listening. The two singles off of the album, "Time to Waste" and "Mercy Me," are among the better songs. The best track is one called, "The Poison," in which bassist/ second vocalist Dan Andriano sings. Yes, his lisp is terrible and I'm still not sure what they are singing about (probably booze, although maybe pollution?) but what a good song. The hook is great, the guitarwork is great, the lyrics aren't bad, and it's quite satisfying to sing along. It's one of the few songs on the album that actually shows feeling, and it demonstrates that Dan's songwriting ability is getting better than Matt's. The rest of the tracks are just regular Alkaline Trio-type songs about blood and crucifixes and stuff. Nothing special. Overall, the album gets a C rating. (Yeah, I'm rating albums now. After several terms of getting C's myself, it feels pretty good for me to be able to give a C to someone else. Suck it up.)



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• The composite particle initial circular path is changed to an elliptic path with a minor axis smaller than the circular radius by the factor  $\sqrt{1-(v/c)^2}$ .

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#### Introduction

With gas prices, parking fees, and traffic congestion on the rise, more people at Caltech are exploring public transit to save money and time.

This transit guide is intended especially for the Caltech community. Whether you commute to Caltech or want to take a day-trip off campus, you will find Caltech-specific information on everything from transit subsidies to bus routes to make your trip cheaper and north and south between Long Beach and Los Angeles, and connects to the Metro Green Line.

-The Metro Green Line crosses the Blue Line, running east and west between Norwalk and Redondo Beach, curving south near LAX, the Los Angeles International Airport. www.metro.net

The Metro Bus System operates over 200 bus lines, which offer a variety of services such as Local, Rapid, and Freeway Express. To help riders identify which type of service a bus provides, Metro uses both color-coding and numbering systems. Metro Local buses are painted in California poppy orange, and have bus numbers between 1-300.

come every 3-10 minutes during peak hours. Unlike regular buses, Rapid buses have special sensors to change traffic signals. You'll recognize Metro Rapid buses and stops by their distinctive red color, and Rapid bus numbers are always in the 700s. Metro Rapid 780 links Pasadena to Hollywood.

side, San Bernadino, San Diego, and Ventura counties. You can catch Metrolink at Union Station. www.metrolinktrains.com

Experience LA: If you're going to a popular LA destination, use Experience LA, a new online resource for exploring LA's attractions via public transit. With searchable destinations and events directories, Experience LA is especially useful for the Techer who wants to go somewhere but doesn't know what LA has to offer. The incorporation of public transit information into its maps and itineraries differentiates Experience LA from other LA guides, and makes it a good choice for transit users. www.experiencela.com

faster on public transit.

You don't need a car to get around Los Angeles, despite what you may have heard. Los Angeles' public transit system, Metro, is the second largest in the nation with four rail lines and over 200 bus lines that can take you just about anywhere in Los Angeles county. The introduction of the new Metro Gold line in Pasadena means it has never been easier for the Caltech community to travel around Los Angeles using public transit.

A Quick Guide To Public Transit

The Metro Rail system is comprised of the Metro Gold, Red, Blue, and Green Lines. See page 18 for a system map.

-The Metro Gold Line connects Pasadena to Union Station, a major transit hub in downtown Los Angeles, where you can catch Amtrak, Metrolink, Greyhound, and the Metro Red Line.

-The Metro Red Line subway provides service between Union Station, the Mid-Wilshire area, Hollywood and the San Fernando Valley, and intersects the Metro Blue Line.

-The Metro Blue Line runs

**1-99:** Local buses to and from downtown Los Angeles

100-199: East and West Local buses

200-299: North and South Local buses

Metro Limited Stop and Metro Express buses have bus numbers between 300-599.

300-399: Limited Stop Buses 400-499: Express buses to and from downtown LA

500-599: Crosstown freeway express buses

Metro Rapid buses are the fastest and most frequent, and Pasadena Area Rapid Transit System (ARTS) has seven routes that connect Pasadena. The 10 ARTS bus services Caltech at three stops: Del Mar @ Hill, Del Mar @ Chester, and Del Mar @ Wilson, and links Caltech to Old Town and the Allen Gold Line station for only \$0.50. For Gold Line commuters, the 10 ARTS bus can get you to Caltech in six minutes, and has the most reliable and frequent service. www. ci.pasadena.ca.us/trans/transit/

Foothill Transit serves the San Gabriel and Pomona Valleys. Bus lines 187 and 690 link Pasadena to Pomona and Claremont via Arcadia, Asuza, Duarte, and Glendora. www.foothilltransit.org

Metrolink is a commuter rail service that is cheaper and has more frequent service than Amtrak. Metrolink provides service to Los Angeles, Orange, River-

Metro also offers a number of tools to help the Techer who knows where to go but needs to find a way to get there.

Metro's Trip Planner produces public transit itineraries to anywhere in LA. Although Metro's Trip Planner will produce an itinerary that will get you to your destination, it may not be the best possible route. www.metro.net

TranStar: If your destination is in Southern California, but outTHE CALIFORNIA TECH FROM HERE NOVEMBER 14, 2005



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**PASADENA** Area Rapid Transit System



side LA county, use the TranStar Trip Planner instead. TranStar includes all bus, rail and Amtrak schedules for Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara and Ventura counties, as well as connecting service between lines. Like all automated trip planners, the TranStar Trip Planner may not always produce

Metro section of Metro's website, but it's easier to work with a hard copy. An additional advantage of using a Metro System Map is that it presents you with all your transit options whereas Metro's Trip Planner gives at most two. Consequently, if you've missed your bus connection, check the System Map to see whether you can catch

The Fannie and John Hertz Foundation takes great pleasure in announcing Fall 2005 Fellowship Awards to two California Institute of Technology graduate students:

duce you to transit options with which you may not be familiar. www.latranstar.tann.com

**BikeMetro:** Bicyclists should trip plan with BikeMetro. Bike-Metro is like MapQuest, but geared for bikes: it understands that bicyclists look for different qualities in a route than automobile drivers. BikeMetro's itineraries, for example, avoid hills and traffic, and consider road quality and the existence of bike lanes and routes. BikeMetro currently covers LA, Orange, San Bernadino, and Riverside counties. www. bikemetro.com

The Metro System Map is a great resource in planning your trip. You can pick one up for free on campus at the Rideshare Office at 515 S. Wilson or at Metro's Customer Service Center in Union Station. The System Map can also be downloaded from the Riding an alternative bus at a bus stop nearby. Metro System Maps are posted at Metro Rail stations.

The City of Pasadena Transit Map shows the routes of all transit service providers with stops in Pasadena, including Metro, Pasadena ARTS, Foothill Transit, Glendale Beeline, and many more. You can pick up a copy for free at the bookstore or at the Rideshare Office at 515 S. Wilson.

The City of Pasadena Bicycle Map is the definitive guide to bicycling in Pasadena, and shows all of the bike lanes and bike routes in Pasadena. You can find this free map in convenient pocket size form at the bookstore or at the Rideshare Office at 515 S. Wilson. You can also contact Rich Dilluvio for a hard copy via mail at (626) 744-7254 or at RDilluvio@cityofpasadena.net.



Mr. Michael David Henry Applied Physics

#### Mr. David Van Valen Applied Physics

Mr. Henry and Mr. Van Valen are two of 15 Hertz Foundation Fellows chosen from a field of 662 applicants to receive a five year Graduate Fellowship Award of up to \$240,000 in the Applied Physical and Engineering Sciences.

The Hertz Foundation would like to extend its congratulations to **California Institute of Technology** for attracting these Fellows to their graduate programs.

See www.hertzfoundation.org for more details.



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# This Week in Caltech Sports

#### By MIKE RUPP

season; Streit sisters named to **CoSIDA** Team

Despite a tough season that saw the team go winless, the Caltech Women's Volleyball team has much to be proud of looking back on their 2005 season.

Senior Middle Blocker Colleen Moody wrapped up her intercollegiate career in grand style, leading the team in kills, kill/game, attack percentage and blocks. She was third on the team in digs. For her achievements, Moody was named Team MVP for the 2005 season.

Junior Outside Hitters - and twin-sisters - Elisabeth and Rebecca Streit were the team's second and third options on offense. But more impressively, the sisters were named to the CoSIDA Academic All-Region team, and their names will be considered for the Academic All-American team.

Congratulations to the whole team!

Men's Soccer wraps up season with losses to Oxy, CSU East Bay

strong performances against Occidental and CSU East Bay. Against Oxy, Sophomore Nathan Chan had his second goal of the season and Senior Defender Eric Kelsic had his first in a 2-5 loss. It was the first time Caltech has scored two or more goals against a conference opponent in two years.

Women's Volleyball finishes some Seniors to graduation, the future of the program looks strong. Congratulations to the whole team on the conclusion of their season.

> Men's Water Polo prepares for SCIAC Championships at Loyola-Marymount

> The Caltech Men's Water Polo team will end its season this weekend at the 2005 SCI-AC Conference Championships hosted at Loyola-Marymount.

> Despite a tough season, a number of players have stood out for Caltech this year. Senior Ben Olsen has capped his career with a 28 goal season going into the Championships, a total that leads the team.

> Junior Tom Jurczak, Junior Daniel Oliver and Freshman Thomas Oliver have all had excellent seasons, and Junior Kurtis Ras performed well in his first season as starting goalkeeper.

Good luck to the whole team this weekend!

Cross-Country finishes at SCIAC Conference Championships

The Caltech Cross Team fin-The Caltech Men's Soccer ished its season this past weekteam finished its season with end at the SCIAC Conference Championships.





# ASCIT Minutes

By PARVATHY MENON

Present: Warner Leedy, Peter Foley, Dima Kernasovskiy, Wendy Xu, Kelly Lin, Todd Gingrich, Parvathy Menon, Michelle Wyatt

Introduction: 1. Call to Order, 12:12:23 PM

Shannon Greene 1. requests funds to take Geology Professor Grotzinger out to lunch.

a. Vote 6-0-0 passes

ASCIT will be 2. holding interviews for prospective members of the Survey Committee. Applicants should be prepared to prove their worth in a duel against the other interviewees... surveying will proceed to the death.

3. Sarah Payne, captain of the Women's Ultimate Frisbee Team, would like money so she can clothe her women players... you've only got a few more weeks to see them without their uniforms; contact Sarah ( payne@caltech.edu) for game schedule.

Vote to give the a. team \$200 for tournament and uniforms (6-0-0) passes.

Peter Foley and 4. Douglas Hanley want to eat Economics Professor Mattozzi.

Vote 6-0-0 Passes a.

Flem Soc Director 5. Neha Das gets \$100 (vote 6-0-0) from Multihouse Funds for Fleming Frosh

Against CSU East Bay, Senior Midfielder Chris AhNew scored his fifth goal of the year in a 1-6 loss. AhNew finishes the season leading the team in scoring.

The team finishes with a 0-17-1 record, in a hard fought season that saw them lose their starting Goalkeeper to injury in preseason. Despite losing

Senior Ekua Anane-Fenin finished her season leading the Women's team once again in the 6k, finishing with a time of 24:32.90. Sophomore Gina Gage was next with a time of 26:29.70. She was followed by Sophomore Sarah Stokes with a time of 26:54.90.

On the Men's side in the 8k, injuries again made for a difficult day for Caltech. Sophomore Matt Kiesz had the top finish with a time of 28:35.40. Senior Team Captain Gustavo Olm finished his intercollegiate career in the team's fourth-place spot with a time of 29:40.70.

Party.

Fleming is the a. finest house. Ever. To the infinity. Vote 6-0-0 Passes – ASCIT affirms.

The California Tech Caltech 40-58 Pasadena, CA 91125