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## Caltech-led CA team awarded \$122 million for solar initiative

*Third largest proposal in Caltech history*

By Gloria Tran

STAFF WRITER

On July 22, 2010, the Department of Energy announced a \$122 million award for a partnership between Caltech and the Lawrence National Berkeley Lab in Berkeley, CA to lead breakthrough research in cost-effective solar sustainable energy.

These two collaborative sites in northern and southern California will collectively be known as the Joint Center for Artificial Photosynthesis (JCAP). JCAP is one of three Energy Innovation Hubs, integrated research centers that will implement a multidisciplinary team for advancement in energy technology and infrastructure.

Leading the JCAP Fuels from Sunlight Energy Innovation Hub as Director is Nathan S. Lewis, the George L. Argros Professor and Professor of Chemistry at Caltech, supported by Caltech's Bruce Brunshwig and Harry Atwater and Berkeley Lab's Peidong Yang. In addition to the main sites of Caltech and Berkeley Lab, other members include the SLAC National Accelerator Laboratory at Stanford, UC Berkeley, UC Santa Barbara, UC Irvine, and UC San Diego.

The proposal for JCAP submitted to the DOE is the third

largest proposal in Caltech history after JPL and LIGO.

"[It] certainly fits in Jean-Luc and Carol Chameau's interest in sustainability as well as the establishment of the Resnick Institute announced a year ago." However, Resnick Institute has a separate set of goals not congruent with those of JCAP, such as funding for scholarships to students, Brunshwig comments.

The computer science building of Jorgensen Laboratory will be re-outfitted with equipment and workspace for the new research staff of JCAP. Harry Atwater's Resnick Institute will also share part of the building.

Specifically, JCAP aims to develop methods to generate fuels directly from sunlight, much like plants harvest light energy from the sun to produce chemical fuels from carbon dioxide and water in photosynthesis.

"We will discover efficient, earth-abundant light absorbers and catalysts, better polymer membranes that are ion-conductive and yet gas-impermeable; and ultimately a functional integrated solar-fuel generator that operates under the sun with decent solar-chemical energy conversion efficiency," summarizes Peidong Yang, who will lead JCAP at the Lawrence National Berkeley Lab.

JCAP's mission is to demon-

strate a scalable and cost-effective solar fuels generator without the use of rare materials that will produce fuels from sunlight with 10 times more efficiency than current methods.

"Among renewable energy resources, solar energy is by far the largest exploitable resource, providing more energy in 1 hour to the earth than all of the energy consumed by humans in an entire year," states Lewis in a PNAS review of solar energy advances. Even biofuels severely reduce energy efficiency, as plants did not evolve to meet human energy needs.

Beyond the goal for a working prototype, JCAP has proposed several research areas.

The team proposes to focus on accelerated discovery of earth-abundant, robust materials to expand the existing range of available light absorbers, catalysts, membranes and other system components. Additionally, JCAP wishes to develop a high-throughput screening system for testing these newly discovered compounds for viability in the prototypes.

"By end of 5 years, we hope to achieve a combinatorial systems ability, discovering a million compounds in a short period

See JCAP pg. 4

## Frosh Camp off-campus at Ventura Beach



Photo by Rebecca Lawler

Team Argentina: (from the right) prefrosh Murtaza Saifee, Ka Kin Kenneth Hung, and frosh camp upperclassmen counselor Kristin Dahl test their boat for the engineering contest at Ventura Beach.

## Caltech Security Halts MIT Prank

By Sarah Marzen

COPY EDITOR

In the early morning of September 10, Caltech Security officers put a halt to a prank being carried out by five MIT undergraduates.

The exact details of the prank are still under investigation by the Tech, as the two MIT pranksters that the Tech was able to obtain contact information for did not respond to an email inquiry and Caltech Security Chief Gregg Henderson was unsure as to what the prank would be. According to the Security incident report, the two Caltech Security officers involved found a parked Budget moving truck outside the east double doors of Baxter Hall, an unlocked roof door, and several personal items-- five handcrafted boxes, a large white banner with red writing, and a sign labeled "Cambridge, Mass".

"Security did what they should have done, since there is no protocol for dealing with MIT pranks," said Vice President for Student Affairs Tom Mannion, who has been heavily involved in many of Caltech's previous pranks. "But



Photo taken by Caltech Security

One of the pranking items found in room 17 of Baxter Hall was this black and white MA banner of uncertain purpose.

if MIT says they're coming and they're doing something that I think is okay, I'll probably let them do it."

This MIT almost-prank is the latest in a healthy prank rivalry between the two schools. In 2005, Caltech re-ignited the MIT-Caltech prank war when a group of Caltech undergraduates handed out pro-Caltech t-shirts at MIT's Campus Preview Weekend (CPW). In spring of 2006, MIT

retaliated by stealing the Fleming Canon by posing as a moving company, and Caltech retrieved the canon the week after. In spring of 2007 during MIT's CPW, Caltech distributed fake MIT newspapers around the public Cambridge streets near the MIT campus, after being removed from the MIT campus proper by MIT's Security. In 2008, Caltech undergraduate Tim

See Prank, pg. 2

## Permanent pre-Health Advisor Hired

By Yang Hu

STAFF WRITER

Last January, the pre-med community at Caltech was worried after the sudden departure of former pre-med adviser, Angela Wood. An interim replacement, Melanie Hamon, carried on pre-health affairs until James Berk was hired in June as the new pre-health adviser to fill the position of pre-health advising at Caltech.

"After Angela left, very suddenly, all the pre-meds were a bit confused in terms of what to do next and why Angela would leave in the first place," remarked Caltech Pre-med Association (CPMA) President Vivian Yang.

Over the summer, Berk made plans to initiate several programs to benefit students in pre-health careers. Each term, Berk plans to offer a minimum of four events -- two focused on practical issues related to Medical/Health School applications and adjustment, and two focused on professional issues related to health careers in today's society. Planned events start in October with a talk on the

rise of geriatric medicine given by Caltech alumnus Dr. Wayne Chen, who currently works at the Keck School of Medicine at USC. Also in October will be a workshop focused on succeeding in interviews for medical school and other health professions. In November, Berk plans to have a workshop on volunteer and research opportunities, as well as a forum focused on issues related to public health. He is also continuing the well-received Health and Medical Professional Issues Forum that Director of Caltech Career Development Center (CDC), Lauren Stolper, initiated last year.

Berk's self-described goal is to provide timely information to pre-health students on career management, and to establish contact between Caltech's pre-health students and individuals already working in health professions. He looks to expand the existing preceptorship program for next summer by adding new sites for clinical shadowing and

See Pre-Health Advisor, pg. 6

## New Admissions Director Begins Tenure

By James Wu  
STAFF WRITER

This summer brought some changes to the Admissions Office at Caltech. The Assistant Director of Admissions, Cameron Pinckley, left Caltech in order to take a senior position at Dartmouth College.

The new Director of Admissions, Jarrid Whitney, officially started on September 1. He had already moved to Pasadena from Santa Clara University in August with his wife and infant daughter. He currently lives right next to Caltech, only a block away from the athletic center.

Director Whitney, who asked to be called Jarrid, was kind enough to give the Tech an interview on very short notice last week. I sat down with him to discuss his philosophy on admissions, changes to the admissions office, and wind mills.

As a half Native American, Jarrid has a personal interest in reaching out to underrepresented groups. As there are many qualified members of underrepresented groups that are not aware of the

opportunities Caltech offers, one focus of his would be outreach to minority groups who have traditionally been underrepresented in STEM fields. However, he was adamant that he would in no way reduce the quality of incoming students. "I want to increase our profile with underrepresented groups, but I'm also going to be honest with them. I'm not going to push someone in just to get them in." He pointed at Caltech's Core and well known challenging course load as hurdles some students from underserved communities would face.

Jarrid reiterated many times that he still has a lot to learn about the Caltech community before he could carry out his duties effectively. When asked if any changes might be happening to the admission office in general or to the admissions policy, he stated frankly that "I don't know enough about Caltech right now to even suggest any changes."

However, he likes what he's seen so far.

"I just got back from frosh camp, and it was an eye opening experience. The frosh were collaborating, working together. I don't think I ever saw a frosh alone," said Jarrid.



"I've also never seen such engagement by students. The frosh were so attentive at the orientation workshops. They were discussing high level ideas. The professors were like rock stars. When a professor would finish a talk, they were immediately swarmed by students asking questions. I've never seen that anywhere else," he continued.

While change in the admissions office will certainly continue to be a source of concern for many members of the community, it's clear that many members will find a kindred spirit in Jarrid. In high school, he won the top award for his design of a more efficient wind mill at a state science competition. He's also an enthusiastic flyer, automobile restorer, and motorcyclist.

## pre-health

continued from page 1

research opportunities. "In connection with CPMA, I believe that our students will have many great opportunities to learn, interact, and increase their status as candidates for health profession programs," said Berk.

CDC Director Stolper supervised the competitive hiring process for Caltech's new pre-health advisor. Stolper and Director of Employment at Caltech, Dlorah Gonzales, prescreened candidates for the pre-health advisor position and selected a group of finalists. Each finalist was interviewed by a group of pre-health students chosen by Caltech's student government, staff of the career center, and a number of administrators who have direct experience working with students. According to Stolper, "[students] make the most impact in the interview process in terms of attracting candidates to Caltech."

"One of the most compelling aspects of the interview process was the chance to meet with several of the Pre-Health students to answer questions about my background and plans for the future," Berk said in an email. "This also gave me the chance to hear some hear about their reasons for pursuing a health career; I was impressed by their intelligence, maturity and passion for their career choices. I left the experience knowing that Caltech is where I wanted to work long-term."

Formerly the adjunct instructor at Azusa Pacific University and Westwood College, Berk was chosen for his experience with students, training as a counselor, and enthusiasm for working with Caltech students, according to Stolper. He has accumulated over ten years of experience with college students in a variety of roles including counseling, teaching,

and advising.

"Over fifty individuals initially applied for the process," said Stolper. "It is very clear that students are seeking [Berk] out for advice, enjoy talking with him, and know that he is there for them and will provide them with support as they make career decisions.... [Berk] has a focus on pre-health/pre-med advising, but he spends half his time working with students interested in a range of career fields, both graduate and undergraduate students."

Although long-term ties with medical schools only come with time, Berk has been hard at work building ties with admission committees at major institutions across the country. "Networking is a key component of my position," says Berk. "I will be a strong and active advocate for students in the application process, helping schools to understand the academic rigor of the Caltech curriculum, and how that increases our students' attractiveness as applicants." Berk plans to attend the American Medical Student Association's Pre-med conference this October at UC Davis. "There I will meet with admissions representatives from major institutions face to face, and further building their ties with Caltech," says Berk.

Caltech's pre-health students are relieved knowing that a new adviser has been hired. "I feel like the frosh have a great support system in terms of their pre-med career now. When I was in a personal meeting with Berk, he gave me a list of everything he had worked on during the summer, and I was amazed he could have so much initiative and contacts within the medical school admissions already. I think he is very suitable for this position and many pre-meds appreciate everything he's already done," remarked CPMA President Yang.

Berk's office is on the 3rd floor of the Center of Student Services

## prank continued from page 1

Black pranked MIT's Mystery Hunt when he distributed a fake first question that directed MIT students to a Caltech transfer phoneline.

The more recent prank attempts at both schools have been stopped by Security officers. Last year during Thanksgiving weekend, a team of ten Caltech undergraduates organized a large-scale prank on MIT, in which Caltech had allegedly bought MIT and renamed it "Caltech East, a new School of the Humanities". The pranksters, led by former Caltech undergraduate Anthony Chong, had almost finished putting up a "SOLD" banner and a "Caltech East" banner on MIT's main building in addition to relabeling all of the nameplates along MIT's Infinite Corridor, when an MIT custodian got worried by the suspicious activity and called the police. The group of pranksters still managed to distribute a few copies of a fake newspaper, available online at east.caltech.edu.

"The most disappointing part

was when the real cops showed up," said Caltech undergraduate Jordan Theriot, who helped with the Thanksgiving prank, co-wrote the Thanksgiving prank newspaper, and is now in charge of the funding for Caltech's Pranking Club. According to Theriot, the group of Caltech students had to plead with the police in order to take a picture of the half-flung "SOLD" banner on the building before taking all but a few of the prank newspapers back to Caltech.

MIT's recent almost-prank seems to be a retaliation against Caltech's uncompleted "Caltech East" break prank. "I'm glad MIT retaliated in any way," said Theriot. "I want to see Caltech come up with something great."

However, the way in which Security has responded to the pranks recently has some of Caltech's most avid prankers worried.

"The [pranking] game's on, but we have had two shutdowns. We need to see what we can do to promote a pranking culture,"



Photo from east.caltech.edu

Security foiled Caltech's prank to rename MIT as Caltech East School of the Humanities, over last year's Thanksgiving break.

said Mannion. He plans to talk to MIT's administration or student government to see "if we can get some reciprocity" in promoting pranks, which might involve looking the other way when pranksters come to campus if given advance notice. "Bottom line is, it's really cool that we caught MIT doing this. But maybe we can help them in the future if they would like."

"It would be nice if we set up some protocol," said Chong, who organized the incomplete "Caltech East" prank. "Pranking is a significant undertaking, and it's very easy to underestimate the amount of effort involved. It's a bit of a pity [that pranks get stopped by Security]."

There is a fine line between promoting rivalry and ruining the fun involved with eluding the police. "Part of the fun is doing something challenging and getting around Security," said Chong.

Still, the future of Caltech pranking looks bright. Caltech's incoming freshman class has already pulled off four pranks, including a human pacman on the Olive Walk and a large banner across Millikan. "I see so much potential in this frosh class," said Theriot.

An organizational meeting for Caltech's Prank Club will be held soon. Please contact Jordan Theriot with any questions.

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## MOSH moves to Olive Walk

**By Tina Ding**  
EDITOR-IN-CHIEF

Over the summer, the west room of the Tech Express on the Olive Walk was cleaned out and renovated to become the new Master of Student Houses (MOSH) office. In September, current MOSH Geoffrey Blake moved from his old office in the Center for Student Services to the new room.

"I wanted to be closer to the students," said Blake, "By being right on the Olive Walk, students can more easily drop in and chat."

With an office in the center of the undergraduate Houses, Blake plans to initiate activities to encourage more student faculty interactions.

"We'll get some tables out there during lunch time, allowing faculty and students to eat together," said Blake. Additionally, Blake and his wife, Karen, plan to use the Lloyd kitchen to make snacks and desserts for students after dinner. He will be available on most nights after dinner.

About fifteen years ago, before the Tech Express was built, the MOSH office also resided in its current location. After speaking to former MOSHes Sunny

Chan and Christopher Brennen who voiced the benefits of having MOSH close to the Houses at that time, Blake began efforts to reinstall the office on the Olive walk.

To reduce the size of the Tech Express, copying and faxing are no longer available.

The MOSH serves as the faculty mentor to the residential associates of the Houses, and meets with them weekly. The more "fun and major role" of the MOSH is encouraging student outings and faculty student interactions. These activities range from taking students to musicals and plays to hosting manners dinners and activities at the MOSH house, located at 500 South Hill Avenue.

The MOSH also works with IHC on Rotation and other House traditions.

Blake has served as the MOSH for one year, and is also the faculty chair for freshmen admissions. He is the Professor of Cosmochemistry and Planetary Science, and teaches Ch21b and Ge133. "My research group definitely sees less of me," commented Blake on taking up the position on top of his faculty duties, "but [as MOSH,] you can't make the difference without putting in the time."

## Security charges students \$50 for using the new secure bike cage

**By Amol Kamat**  
STAFF WRITER

To help combat the history of bike theft at Caltech, security has installed a new bike cage. The cage, located on the second floor of the Holliston Parking Structure, is available to members of the Caltech Bicycle Program and costs \$50 per year.

Caltech had problems with bike thefts on campus in the past, although there has been a definite decrease in burglary in the past few years, according to Gregg Henderson, chief of Caltech Security. However, according to a security report released in the summer, there were six bikes reported stolen between August 4th and August 25th. Furthermore, just a few weeks ago, a bike was stolen from Avery despite the use of a steel U-lock.

Opinions of this solution have been mixed, at best. One undergrad, who would prefer to remain anonymous, said, "I think it's ridiculous for security to charge \$50 to keep your bike safe instead of doing the job that we are paying them to do."

Henderson defended the cage, "I totally agree with that, but I don't have enough personnel to

ensure that they're there at every moment. That's virtually impossible. Yes, we do charge, but it was very expensive to build. I really wish we could be everywhere at all times, but we can't."

Undergrad Scott Yantek feels his money would be better spent elsewhere: "I'd buy a good lock.

My bike costs \$90. It would be cheaper for me to just buy a new one every two years."

Alan Menezes, who had his bike stolen this year, was concerned about location: "It seems kind of pointless since you have to walk to Holliston to get your bike."

There are sixteen assigned parking spots available in the bike cage. The spots are on a first come first served basis. For more information, contact Kristina Valenzuela in the transportation office.



Two bikes are safely locked at night in the bike cage on the second floor of Holliston Parking structure.

## Cardreader replaces North House combination locks

**By Casey Jao**  
STAFF WRITER

Over the summer, Caltech Housing replaced the rickety front entrance doors to the North houses, Marks, and Braun. The old combination locks have also been replaced by cardreaders, which were activated approximately four weeks ago. The cardreaders are different from the magnetic cardswipes in the South houses and Avery house, and require updated student ID cards. Students were issued updated cards when

they checked in this fall.

The renovations were done in the interest of security, according to Housing director Peter Daily.

"The North house doors were 1960s vintage. We now have doors with newer technology that work with the cardreaders," he said.

While Daily declined to discuss specific costs, he acknowledged that the project, which replaced five entrances over the past twelve months, was "very expensive." The money financed the cardreaders as well as the cardswipe-compatible doors.

No plans are on the table to update the older cardswipes, but "from my understanding, all new installations will be similar to the new cardreaders," said Daily.

The door replacements were part of a broader renovation program by Housing. Contractors installed new electrical equipment in the North house basement, increasing the power to each North house room, and are in the process of installing energy-efficient air conditioners in the North house rooms. Two weeks ago the carpet in the North houses was replaced. Furniture in Avery, Ricketts, and

the North houses is also being updated.

"We've been busy this summer making sure that quality-of-life issues are done well," said Daily.



Cardreader, top left, scans student IDs to unlock the door.

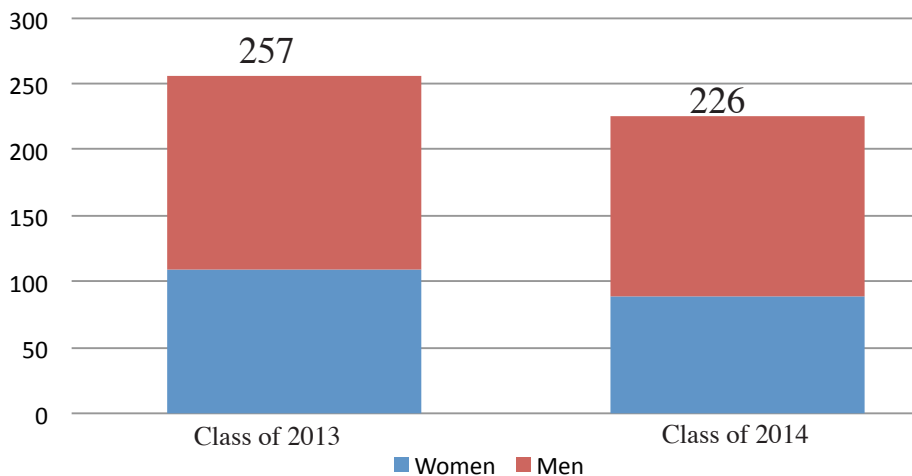
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# Class of 2014 Statistics

By Neha Samdaria



Amongst the 603 admitted students, 226 matriculated to Caltech. The class of 2014 is 31 students less than the previous class of 257. The percentage of women in the freshmen class is 40% women, down from class of 2013's 43%. The yield is approximately the same as previous years, dangling at about 37%. Recently appointed Director of Admissions, Jared Whitney, reflected upon his first few interactions with the new froshlings during Frosh Camp, "I was amazed at how quickly they all bonded! They had such big ideas already and were eager to learn."

## JCAP

*continued from page 1,*

of time. We hope to find more semi-conductors than in all of history, screen them to find ones we think are viable, and find 10 new ones that meet our needs. We hope to develop a library of synthetic ways to stick catalysts onto a surface," explains Brunschwig, one of JCAP's primary overseers.

Finally, JCAP will simultaneously develop capabilities for linking together light absorbers, catalysts and membrane units on multiple scales from the nanoscale to the commercializable macroscale.

Cost-efficiency is, of course, an important consideration. Brunschwig remarks that "the device has to be almost free because gasoline is very cheap. So one of the design features is that we will not use precious metals such as platinum."

Along with a strong central management, a necessary strategic aspect of the JCAP proposal was the geographical restriction of collaborators within California with the purpose of maintaining communication and accountability between departments. Each site will host scientists from other member sites for short term and long term visits. Researchers will also utilize video conferencing developed by Caltech's EVO Collaboration Network, which will enable highly accessible communication such as from a desktop to a large conference room scratchboard.

Both the JCAP North and South will combine the efforts of synthetic chemists, chemical engineers and builders. Moreover, each site has all of the projects, but differentially sized. For example, while researchers investigate membranes on a meso-scale at one site, other researchers will examine them at a nanoscale at the other site. Some of the problems JCAP will be closely observing across scales include fluid flow, carbon dioxide input and diffusion, how bubbles affect light absorption, etc.

"This will be a vertically-integrated project. We will build prototypes on all scale levels in parallel, which will allow

us to tackle problems on that individual level," describes Brunschwig. "The point here being that you want a critical mass; you want various groups to talk and interface to be intellectually one site."

Roughly half the researchers at JCAP South will consist of Caltech graduate students and postdoctoral fellows, while the other half will be newly hired staff acquired over the next few years.

However, "this is not normal research, as in single PI [principal investigator]-oriented as in most university or industry labs," says Brunschwig. "All science and engineering will be focused on the device, with much more control over the science by a science management team, keeping an eye on where we're going. The PIs can't decide by themselves what to pursue."

We didn't want more than two sites – Steve Chu envisioned "Bell Lab-lets", not an initiative involving 100 PIs spread across 7 sites."

"Many of the existing solar research efforts are largely on fundamental science; JCAP will do transformational science and develop technology of solar-fuels generation that can be potentially implemented in large scale. So we will not only do breakthrough science, we also have an aggressive agenda to develop a true revolutionary technology and bring it to the market," says Yang.

To advance its goal as quickly as possible, JCAP will incorporate the latest discoveries from the scientific community including national research centers as well as individual university groups. "JCAP is committed to the rapid transfer of research results to private industry for commercialization," declares the DOE Office of Basic Energy Sciences in the JCAP Technical Summary.

"JCAP wants to use everybody's best ideas. We don't want to spend 10 years trying to develop a catalyst only to find that there are 10 people out there with better

## Revised and new HSS music offerings to include Youtube and other online media

Professor Neenan, who teaches the music history and theory courses in HSS, will be encouraging students to access Youtube and other online sites for listening homework assignments typically associated with the music history and music appreciation courses. Students will continue to be required to complete listening assignments each week as part of their homework, but rather than listening entirely to CDs checked out from the library, students will access files on Youtube and elsewhere in order to see video clips of music performed live. Classes will also include an online questions and comments forum via the course website.

The first such revision will be seen this fall in Mu21 – Understanding Music – a course Neenan describes as "a whirlwind tour through the history of Western music," covering a little more than 1200 years of music in 10 weeks. Youtube clips of chanting monks and six year old piano prodigies will make up some of the listening assignments.

In the winter, both Mu26 – Jazz History – and a new course, Mu140 – The Great Orchestras – will utilize online video and music resources. "I'm all for making homework assignments more fun and interesting and if students can accomplish the same thing – or more – by accessing Youtube rather than going to the library and checking out CDs, I'm in," Neenan says.

## Changes to Math 1a

This year, Prof. Dinakar Ramakrishnan will teach Math 1a, the freshman course on calculus and proofs. He replaces Prof. Tom Graber, who taught the previous two years. A twenty-two year veteran of Caltech's faculty who is teaching the course for the first time, Ramakrishnan has been thinking of ways to make the course more "user-friendly."

Because some students have had little exposure to the level of rigor in Math 1a, Ramakrishnan plans to dedicate a few days in early fall specifically to writing mathematical proofs, though he anticipates that, due to time constraints, he may have to shorten a section near the end of the quarter.

"The purpose of Math 1a is to teach [students] the mathematical method...using calculus, which most people have seen," said Ramakrishnan. "Students are really learning about argument."

## Malc Prof Jerry Marsden Passes Away

Professor Jerry Marsden, who teaches the freshmen Core course Malc (Practical Path), and is the author of the textbook for the course, passed away on September 21. A detailed article will be published soon.

catalysts," adds Brunschwig.

Brunschwig expects that there will be regular 6-month reviews in which they will consider current goals, funding of various projects and its reallocation, if necessary.

While Lewis will oversee JCAP's endeavors, he will maintain his research group in chemistry with basic research projects developing components for a functional device on a microscale level. Lewis's other projects include an NSF-funded initiative known as Powering the Planet, run by the Center for Chemical Innovation. The initiative is also working on a prototype, but its collaborators span across the nation.

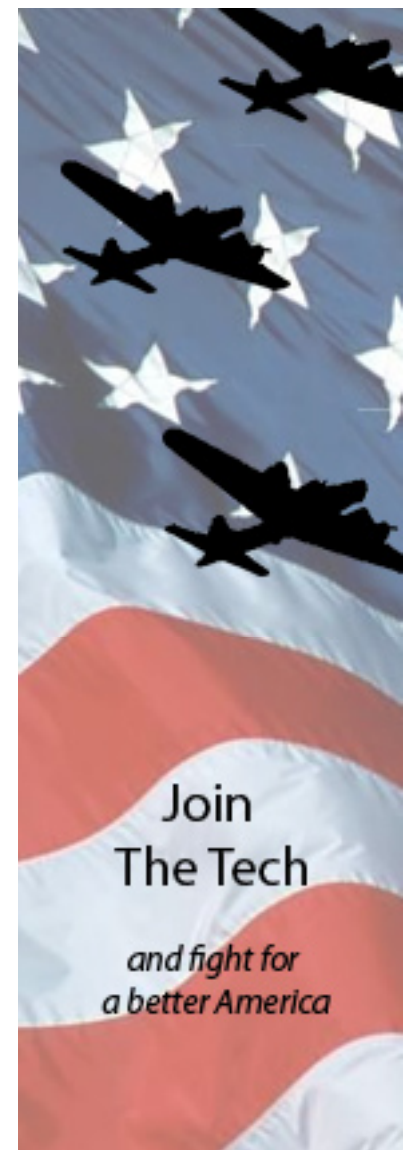
The proposal for JCAP of creating carbon-neutral fuels from sunlight and water was selected for DOE funding among many other collaborative teams across the nation with different though very interesting and worthy ideas.

"We wanted to partner with LBL because of their intellectual power, expertise, facilities, their light source, and molecular foundry," says Brunschwig.

"Even if we had not been selected, we though it was valuable enough to try and find other ways to get it off the ground," comments Brunschwig. "From my point of view anyway, I would like to see 10 Hubs working on making solar fuels. It has both high pay-off and high risk, but gas emissions are high risk, too."

JCAP will be given \$22 million this fiscal year, with \$25 million for the next four years. JCAP's staff will occupy temporary space in the next month, as Jorgensen will not be completed for another 16-18 months. The team does not expect to undertake a lot of research, as most of the money from this year will go toward the building and installment of equipment.

The JCAP team hopes to sign the cooperative agreement this week.



## Nearby caffeine: coffee, tea, and a nice place to work

by Sarah Marzen

Coffee shops and tea shops can merely be places to buy a delicious alternative to sleep or energy drinks. But coffee shops are also an alternative to a cubicle or messy desk. Most coffee shops now have electrical outlets and offer free Wi-Fi. Here are some of my favorite alternative work spaces.



### Starbucks

You want a spot for your laptop but didn't show up before 8 AM? Tough luck. Starbucks has never been empty since it offered free Wi-Fi. The overpriced drinks don't taste very good, the pastries are so-so, and the store on the corner of Lake and California doesn't offer any of mega-Starbucks' healthy, warm breakfast items except for oatmeal. The Starbucks-produced music is just loud enough that you can't tune it out. On the plus side, Starbucks provides nutritional information for all of its menu items, and it's open from 5 AM to 11 PM.

*Location:* Everywhere. Seriously, type "Starbucks near Pasadena" into Google maps.

*Website:* [www.starbucks.com](http://www.starbucks.com)

### Tazza Bianca

No one is ever here, and that makes this place a gem for the wandering workaholic. The tea selection is large enough, if overpriced, and the friendly barista is happy to play a different radio station for you if you just ask. The snacks are barely mediocre and the place closes at 5 PM.

*Location:* 146 S Lake Ave # 108

### Coffee Bean and Tea Leaf

With tastier drinks and a wider tea selection, the Coffee Bean sets itself from the Starbucks that's thirty seconds down the road by offering its patrons a completely different atmosphere. There's only about five seats inside, near electrical outlets. Most of the seats are at small tables outside, which are filled with people talking, not working. Try their iced tea lattes if you're tired of Starbucks' flavorless tea lattes.

*Location:* 415 S Lake Ave # 108

*Website:* [coffeebean.com](http://coffeebean.com)

### Teaspots

This "cheap Asian Starbucks" is the hang-out for PCC students during the year. Prices are cheap with the 30% student discount, the boba is tasty, a wide range of decent Asian food is made to order, and there is free Wi-Fi and electrical outlets everywhere. This is definitely a tea shop aimed at a younger crowd. The place is open until 1 AM and the music varies from popular oldies of the Backstreet Boys to Korean pop songs from 2ne1. As with other cheap Asian stores, Teaspots only takes cash, but they have an ATM in store.

*Website:* 1443 E Colorado Blvd

### Peet's Coffee and Tea

Better than Starbucks, plenty of space indoors and outdoors, and an extensive tea selection. Most importantly, it's next to Noah's, which makes delicious fresh bagels.

*Location:* 605 South Lake Avenue

*Website:* [www.Peets.com](http://www.Peets.com)

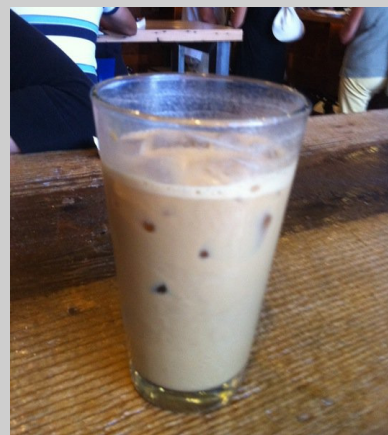
### Zona Rosa

Not a great place to work, and not a great place for food, but their Mexican hot chocolate is delicious if you like cinnamon. Grab a cup after a romantic movie date. Cash required.

*Location:* 15 S El Molino Ave

*Website:* [www.zonarosacaffe.com](http://www.zonarosacaffe.com)

### Intelligentsia



This new coffee shop in Old Pasadena looks like an interior decorator's conception of a mad scientist's lair. Blue walls on one side are opposite from a brick wall, and in between is an amazing collection of beakers and rudimentary hot plates. They have a very precise procedure for brewing coffee that involves evaporating water into a coffee filter using a halogen lamp two different times and stirring in between, and the effort shows-- the coffee is artwork. However, a latte is \$4. The food is similarly pricy and similarly tasty. By the way, don't order tea here unless you feel like wasting money.

Intelligentsia is roomy and cozy, a feat achieved by separating the front of the store from the back using glass shelves filled with aesthetically pleasing coffee products. There are no electrical outlets. You can join the multitude of intellectuals reading in the back, or you can watch as Pasadena's young professional crowd grabs their mid-morning coffee.

*Location:* 55 E. Colorado Blvd.

*Website:* [www.intelligentsiacoffee.com](http://www.intelligentsiacoffee.com)

## How does the Tech stack up against other collegiate newspapers?

By Tina Ding  
EDITOR-IN-CHIEF

At a recent conference for student journalists, Sarah and I sat in front of the associated collegiate press critic with the April 19, 2010 issue of the Tech placed on the table between us. "Tell me," he said, "what is the thing that you like the most about your paper?" As I considered my response, my thoughts turned to the tight-knit Caltech community with its spirit of innovation, active student and House government, and unique self-image. The chance to report on these topics and thus contribute each week to this one-of-a-kind Caltech identity is what I enjoy the most. In other words, I told him, it's the Caltech-centric content of our paper.

At this collegiate press workshop, we interacted with other student editors and writers from around the country during social hours after conference seminars. The newspapers represented by this group of journalists ranged from student newspapers smaller than our own to the Minnesota Daily, the largest student-run newspaper in the country. When I asked a group of Minnesota Daily reporters how they manage to generate so much content each day, one senior reporter asked me what city Caltech resides in. Upon hearing Pasadena, he seemed confused by my question. For the next several minutes I listened blankly as he expatiated on

Minneapolis legislature, which was apparently his area of journalistic focus. All I could think was, "Wow, I think we only did one piece all year on Pasadena-related news and I wonder how popular that story was..." We at the Tech try to focus on the issues that matter most to Techers, e.g. Kip Thorne's forays into Hollywood or the latest news about the changes to core rather than high gubernatorial race spendings.

The Tech isn't a 16+ page daily, nor does it have a whole office building floor as its newsroom. Instead, we get our perks from being a part of the "do it our way" mindset of Caltech, reflected left and right by things such as our Housing system, Interhouse parties, the bookstore, 100+ "committees", donut (both the midnight and website varieties), Tom Mannion... and the list goes on and on.

We did, however, find some commonalities among the Tech and just about every other student paper. First and foremost, readers griping about the paper appears to be universal, according to the various editors and advisors I met. Secondly, tension between the paper and administration is inevitable, but is possible to mediate.

As we begin a new year, I hope that our experience at this summer's journalism conference can give you, our readers, some perspective on both the California Tech and the spirit of our community that I sincerely value.

## Class of 2013 gipped of an off-campus frosh camp

By Amol Kamat  
STAFF WRITER

The new frosh have arrived and are facing the time honored tradition of rotation. But these new Techers experienced one thing that the Class of 2013 did not: Frosh Camp at Ventura Beach. Last year, as some of you may recall, Frosh Camp was held on-campus, with prefrosh living in the houses and attending lectures across campus.

"The high value placed on this important experience is apparently not as valuable as the dollar," gargled one anonymous sophomore, "Caltech definitely needs to make this up to us because I am paying the same tuition as the new frosh."

The general consensus amongst the sophomore class is that they did not get to know each other as

well as the new class. "I personally feel that I met most of our class, but I also had the added benefit of preseason. But, I feel that Frosh Camp is an invaluable experience to meet our class before we are separated into houses, and I feel without Frosh Camp, many people did not get the chance to know their class as well as they might have liked," said Vishnu Manoranjan.

According to the September 1970 issue of "The Month of Caltech," Frosh Camp began in 1919 when the Caltech Y held an evening reception for the incoming class.

Later, that became an all day event. Eventually, it grew to be an overnight campout in the mountains before becoming a multiple day affair. In 1970, Frosh Camp was held on campus for the first time since 1926, featuring a simi-

lar slate of activities as last year's Frosh Camp. The reasoning behind that switch was to allow the new students to become more familiar with the Caltech/Los Angeles area.

Last year's change was more due to finances. Dean Green clarified, "Frosh Camp was held on campus last year due to financial issues related to the economy. It was reinstated this year because Vice President for Student Affairs Anneila Sargent and others at Caltech place a high value on new students having this off campus experience where they can interact easily with each other and with the many faculty, staff and upperclassmen who participate."

"They owe us a nice senior trip, an expensive one," said Blaine Matulevich, "Like Europe."

## Tax Dollars Balanced Caltech's Budget

By Evans Boney  
STAFF WRITER

I attended the staff town hall that President Chameau held at the end of last year. In it, he touted the increased grant funding that we had been able to secure due to the stimulus (this led to a mind-boggling 30% increase in grant funding year-over-year). When asked about when we would see the income from the stimulus trickle down to campus improvements or additional jobs, Chameau said, "That's not how it works". Next question.

Presumably, President Chameau, had he been asked to elaborate, would have droned on about how terribly complicated the budget is, but that he has every assurance from Dean Currie that everything is completely on the level.

This confuses me. Excuse my ignorance, but throughout the entire talk, President Chameau repeated over and over that he had balanced the budget. But... how? Did chopping those 100 jobs really save enough money to offset the loss in the endowment? Or did we use stimulus money to balance the budget?

Luckily, we have facts and figures available on Caltech's website. I encourage all of you, particularly interested faculty, to check out the past 5 annual reports. Caltech has had a "systemic deficit". That is to say, even in the good times, Caltech's costs exceeded its revenues (from grants, interest, and the like).

But somehow, last year, despite lowered revenues from the endowment (which were offset partially by the Draconian job cuts)... we did it! Chameau seemed to have expected quite a celebration, and got tepid applause.

I'm confused.

Is the goal of the institute to balance the budget?

If so, bully for President Chameau. He has hoarded the stimulus right into the endowment, fixing our systemic deficit with donations from American citizens. Or am I missing the computer labs? The new professors? The new buildings? (Schlinger was, for instance, started in 2007).

Nope. This also can be checked online. Despite taking much, much more government money... line items related to research and

academic support increased 0.5%. I thought grant money, particularly stimulus money, came with the expectation it will be spent supporting research, not hoarded into the endowment.

I'm sure there is some fancy financial footwork that we can do to get away with this sort of chicanery. I hope to see a cogent explanation of his balanced budget from the President, and finally get an answer to the question asked at his town hall last year.

But it sure helps explain why the stimulus package isn't working, if Herbert Savers like President Chameau are padding their balance sheets instead of moving aggressively to gain an edge (as, for instance, UT Austin is doing). I hold President Chameau personally responsible for his part in the failure of the Stimulus Package. Somewhere in the neighborhood of \$20-30 M, depending on what line items count as research support, appears to have been gifted.

I look forward to seeing an update from the President on Caltech's careful stewardship of Stimulus Funds. Particularly, I would ask him to publicly defend his rejection of the Faculty Healthcare Committee's recommendation that we reinstate the old mental health plan, in light of the recent rash of suicides.

Apparently, despite receiving 30% more funding for just such research support, we just don't have the money for such frivolity.

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## Prop 19: sound in principle but not in practice

By Pradeep Ramesh  
STAFF WRITER

Proposition 19, also known as the Regulate, Control, and Tax Cannabis Act of 2010, has generated waves of controversy, especially in recent months as the clock winds down towards the upcoming midterm elections. As such, understanding the details of the ballot initiative are critical to making an informed choice.

In essence, the law permits all those who are 21 or older to:

1. Possess up to one ounce of cannabis for personal consumption
2. Use cannabis in private residences or in authorized public sites
3. Grow cannabis at a private residence in a maximum plot of 25 square feet

The law grants local governments the power to levy taxes and allows for the transportation of marijuana from licensed premises in one city/county to another

without regard to the local laws of intermediate localities. Disregarding any scientific arguments for the benefits or harmful side-effects of smoking marijuana, I believe that Prop 19 is a flawed legislation because it is poorly designed.

One major pitfall of the proposed initiative is that the state government does not set the regulatory policies. Instead those powers are set-aside for the local governments, thereby creating a patchwork quilt of regulatory policies that vary from city to city and county to county within California. Consequently, the economic benefits of legalizing marijuana to the state are somewhat unclear – it is true that the state government will undoubtedly receive some revenue from local districts but the estimates appear rosy. It seems more sensible to create a statewide policy on marijuana and remit any taxes directly to the state treasury.

Furthermore, by permitting residents to grow cannabis, the

legislation not only undermines any potential economic benefits, but also creates new enforcement problems for the state's already strapped regulatory agencies. It seems more sensible to ban private cultivation and only authorize purchase from licensed growers. By permitting private cultivation, the law increases the probability of drug proliferation amongst minors and associated fatality rates.

Lastly, since the sale of marijuana is federally prohibited by the Controlled Substances Act, the legal implications of cannabis legalization are potentially grave. Anti-cannabis groups can appeal to the higher courts and set the stage for a protracted and costly legal battle for years to come. For these reasons and more, I believe that Prop 19 is not a practical ballot initiative; the state legislators should seize the issue at hand and design a feasible proposal. Until then, I urge you to vote NO on Prop 19!

## Prop 8: How long will America have to wait?

*Judge Walker's landmark ruling against Prop 8 now pending appeal*

By Sandhya Chandrasekaran  
STAFF WRITER

The fight for equal rights has been a constant struggle throughout history.

Despite the supposed social progress we rarely fail to commend ourselves for, we still have a deep-rooted affinity for tradition and established ways, sometimes to the point of blind, irrational acceptance.

The approval of Proposition 8 during the California election almost two years ago in November 2008 was thought to mark the end, albeit a wanted defeat, to heated arguments upholding the rights of gay and lesbian couples to get legally recognized marriages in the state of California.

However, this setback only fired up opponents of the decision to fight back even harder. In addition to numerous prevalent demonstrations and protests, same-sex couples and government entities filed several lawsuits with the California Supreme Court challenging the validity of the proposition and its effect on previously administered same-sex marriages.

In the notable *Strauss v. Horton* case, the court upheld Proposition 8 while allowing existing same-sex marriages to stand.

August 4, 2010 marked a true victory when Judge Vaughn R. Walker of the United States District Court overturned the proposition in the case *Perry v. Schwarzenegger*. Walker ruled,

"Proposition 8 fails to advance any rational basis in singling out gay men and lesbians for denial of a marriage license. Because California has no interest in discriminating against gay men and lesbians, and because Proposition 8 prevents California from fulfilling its constitutional obligation to provide marriages on an equal basis, the court concludes that Proposition 8 is unconstitutional."

While Walker acknowledged that the federal constitutional right to marry has traditionally re-

ferred to opposite gender couples, he asserted that this definition has evolved over time to include same-sex couples as well; furthermore, he stressed that a domestic partnership would not provide the same social means and recognition as a marriage. Walker underscored this outlook with his rationale regarding equal protection, which, he stated, would be sacrificed under Proposition 8.

Walker eventually issued an injunction against enforcing Proposition 8, basically granting same-sex couples the right to marry for the time being.

The judge also ordered a stay of execution to ensure that the injunction is upheld, pending appeal.

Not surprisingly, proposition disputants were ecstatic. Even Governor Schwarzenegger, the named defendant of the case, showed appreciation and support for the outcome.

This is not to say that everyone was pleased, as dissenting parties promptly sent a notice of appeal to the Ninth Circuit Court of Appeals.

As of now, the Ninth Circuit Court has continued Judge Walker's stay of execution. While the court ordered an expedited briefing on the reasoning and basis of the appeals by the dissatisfied groups, the court has decided to hear out the arguments during the week of December 6, 2010. If the court finds these appeals valid, the decision will ultimately lie in the hands of the U.S. Supreme Court.

By challenging Proposition 8, Walker has presented a visible sign of progress and has instilled hope to those at the brink of losing it. The final verdict is unknown and the issue faces a staggering journey up several rungs of the judicial ladder, which may even take years to climb.

Nonetheless, a fiercer battle can only result in a sweeter victory, and for people who only seek to be valued and recognized as equals in society, a much deserved one at that.



by Alexandra Souverneva

## Letter to the Editor

### Big T Update

First, some statistics: 594 pages (144 color, 458 black and white), 2,682 pictures, 27,869 submitted pictures, 1,460 days, 1,586 mailing addresses on file, 982 current addresses (45 international, 937 domestic), 2,250 printed books, 9 cover designs, 329 pages of proofs, 13 tested printing configurations, countless man-hours.

The upshot? Everyone will be receiving every Big T promised by the ASCIT bylaws. We didn't have the money to print four sets of books—so we ended up combining the three backdated years (2007, 2008, and 2009) into one 'mega-book' that will be distrib-

uted to members of the classes of 2007–2013. Think of it as an opportunity to learn about your alums and feel connected to a larger Caltech community.

We couldn't manufacture memories from years past without archived pictures—but we tried our best to hunt down what we could all throughout last year, contacting prior house historians, Big T editors, and anyone else who might have usable content.

Despite having caught up with our backlog, we're not free and clear just yet. The problems outlined in the article on the Big T are still very much an issue going forward with the 2011 book (which we're already working on). We

still have budget issues, are short on staff members, and the spectre of falling behind (again) looms in the back of our minds.

Currently, students contribute \$12 a term towards the publication of the yearbook. This past year, the total cost of printing the 2010 yearbook was approximately \$64,000—which works out to almost \$70 a student. Advertising brings this total down to \$55, but that still leaves us with a budget deficit every year. Student fees for the 2010-2011 school year have already been set, but going forward a more viable solution needs to be found. Students elsewhere pay upwards of \$100 for their college (or high school)

yearbook, in which they might only have one small portrait.

Increasing the student fee to \$20 a term—an increase of only \$15 a year, and the first in many years—would ensure that we can cover our costs.

If you flip to the back of the 2010 Big T, you'll see a list of staff and contributors. It's a handful of students, and an apt example of the 20/80 rule, although in this case it's more like 5% of students generating 100% of the pages. If the number of pictures uploaded to Facebook is any indicator, there are a lot more closet shutterbugs at Caltech whose assistance can only improve next year's book. Was there an event

you organized or attended which didn't make it into the Big T? Don't take it personally—if we received a enough photos of an event, we made every effort to include it. Take pictures! Write a blurb! We want the yearbook to be a true reflection of campus.

Enjoy your yearbooks!

Mythili Iyer, Big T co-editor







# Book Review: Bestseller “The Accidental Billionaires” merits a C

by Sandhya Chandrasekaran

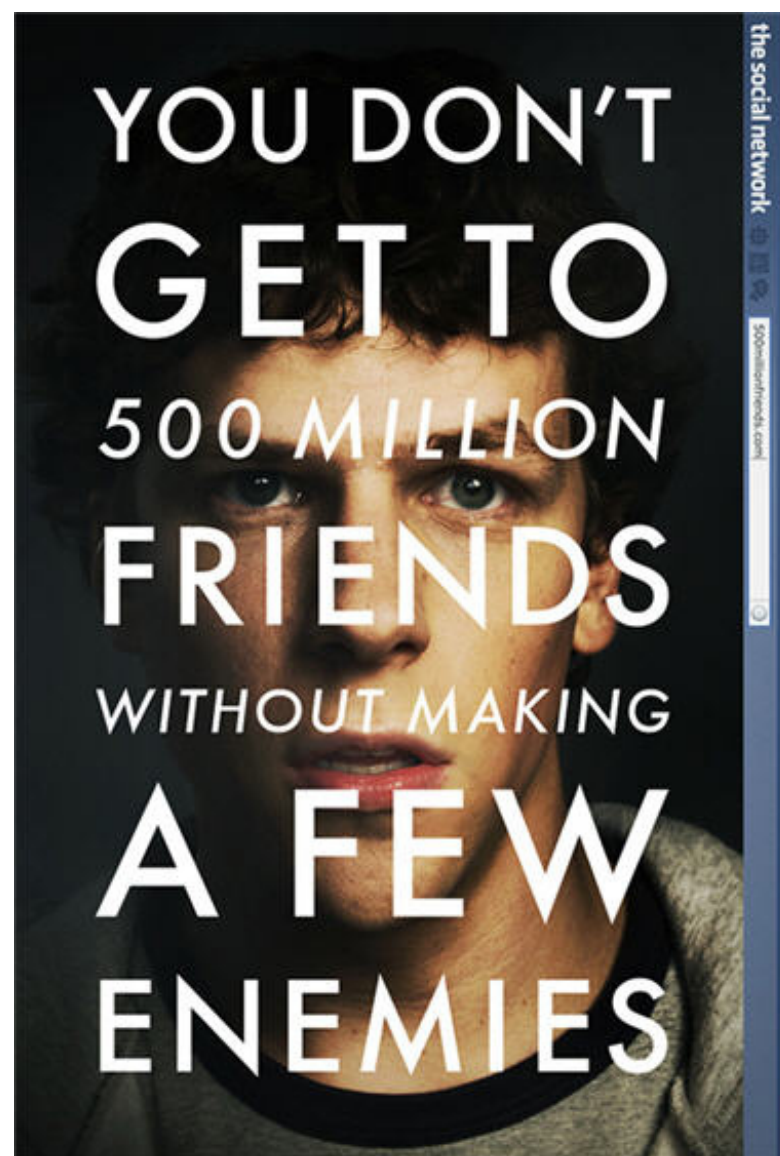
The story behind the creation of Facebook, a site that has revolutionized the way people around the world communicate, is a typical story about the big and brutal world of business. Several people quite innocently and eagerly attempt to start companies and work their way up from the very bottom of the pyramid, only to find themselves crushed somewhere along the way. Even worse, a group of people at the brink of success find their friendship jeopardized in the process.

Ben Mezrich’s fictionalized account of the tale, “The Accidental Billionaires”, is a very vivid chronicle of how two Harvard social outcasts came together and grew apart all in the span of a few life-altering years. Through his book, Mezrich boldly attempts to recreate the events of Facebook history. I say “boldly” because he lacks key information that would otherwise dissuade this pursuit; I say “attempts” because he consequently fails.

The author’s note reads, “Trying to paint a scene from the memories of dozens of sources – some direct witnesses, some indirect – can often lead to discrepancies. I recreated the scenes in the book based on the information I uncovered from documents and interviews, and my best judgment as to what version most closely fits the documentary record.”

This is essentially Mezrich’s version of a disclaimer for the incredibility of his book. By whimsically incorporating fluff to patch up the gaps in his information sources, Mezrich treads the line between fiction and nonfiction. The purpose of the book is undoubtedly to provide information on Facebook history; however, the overly descriptive phrases and cinematic scenarios make the whole situation unreal. Readers looking for the actual historical account could look elsewhere on news sites, and those looking for a good read could just as easily go to the library and find a mentally-stimulating novel, rendering Mezrich’s book completely and utterly useless.

The wide holes in Mezrich’s research, sporadically replaced with nonsensical wadding, resulted mainly from Mark Zuckerberg declining to interview or contribute to the book in any way. Without any assistance from the star of the show, the creator of this world wide web-pidemic, Mezrich turned to a man who was more than eager to provide his generally overlooked version of the events, Zuckerberg’s best friend-turned-enemy, Eduardo Saverin. In fact, Mezrich credits Saverin as a person “without whom this story could not have been written”. Placing that much importance on a person so polarized in the events that took place in no way helps the author fill in the missing information; in fact, the result is a somewhat biased picture as Saverin’s opinions receive much elaboration while Zuckerberg’s almost always follow doubtful prefaces such as “perhaps”, “maybe”,



A film adaptation of the book called “The Social Network” opens in theaters October 1, 2010. It is a Columbia Pictures film starring Jesse Eisenberg, Andrew Garfield, Justin Timberlake, and Brenda Song, and is directed by David Fincher, with adapted screenplay by Aaron Sorkin.

and “we can only imagine”.

Putting these aspects aside, as difficult as that is, the reader will find that Mezrich has crafted the individuals into memorable characters. The author portrays Mark Zuckerberg and Eduardo Saverin, the people at the root of the global phenomenon, as two socially awkward, hormone-driven boys. The extent of this ridiculous dramatization is surprisingly refreshing, as the reader sees these brainy powerhouses as actual, relatable people. Saverin’s eagerness and anxiety to be accepted into the Pheonix, an exclusive underground organization at Harvard University, is developed to the point where the reader can’t help but chuckle and pity his innocent desperation. Zuckerberg’s aloofness from the world around him complements his innovative and crafty personality. Even the Winklevoss twins, who claim Zuckerberg stole the idea of Facebook from them, are not only physically intimidating, but mentally driven to make something of themselves the merciless world of business.

Despite the commendable characterization Mezrich employs, his book is a distorted, elementary read. Which only makes the reader wonder whether Mezrich’s so-called “national bestseller”, *The Accidental Billionaires*, is the real accident.



## Top Dog

By Erik Peterson

STAFF WRITER

Michael Vick is top dog again. “Slick” Vick has been renamed a starter and is looking better than ever, much the chagrin of Nancy Grace viewers and PETA activists everywhere. Eagles coach Andy Reid made the decision to bench starting QB Kevin Kolb earlier this week, caving to vocal pressure from both pundits and Philadelphia fans alike. Pressure had been mounting on Reid following Vick’s performance against the Packers in Week 1, where he filled in for an injured Kolb during the second half and led the Eagles on a comeback to within 7 of the heavily favored Packers, despite him ultimately falling short. The injured Kolb remained out for Week 2’s game against the Detroit Lions, and the Vick-led Eagles managed to win 35-32, prompting even heavier pressure to make Vick the starter for the remainder of the season.

ESPN panelists may disagree over whether beating the Lions (who have gone 2-33 in their last 35) merits a starting position for Vick, or whether Reid is making a mistake by in effect throwing away all the offensive planning and training done around Kolb throughout training camp and pre-season. Ultimately for the fans however, the story is simple: “We want Vick.” A recent polling on SportsNation.com showed almost 85% of fans nationwide felt Vick was a better choice than Kolb.

Will Vick lead the Eagles where McNabb never could and help Philadelphia attain the Lombardi Trophy its fans so desperately crave? Smart money says “no.” Statistical computer simulations, courtesy of AccuScore.com, have however suggested that Philadelphia does indeed have a better chance of winning the NFC East with Vick at the helm rather than Kolb. Only time will tell how the Eagles fare under Vick, in the meantime Philadelphia fans can continue to stockpile their supply of D batteries and eagerly await the return of McNabb to Lincoln Financial Field on October 3rd.

Addendum: Vick fantasy holders had much to be pleased with Sunday afternoon, as Vick threw for 3 TD’s and ran in for a fourth, with the Eagles crushing the Jaguars 28-3. Perhaps this will be enough quell Reid and Vick’s critics for the time being.

## Soccer Preview ‘10

A message from team captain Jonathan Yeung

“The team is hoping to build on the progress we made last year. Every year that I have been here, our team has gotten progressively better. We have the players that will allow us to play competitively with most of the teams in SCIAC, but what we must do is to play to our full potential. But playing competitively is not enough, at the end of the game the scoreline is what matters. Last year, we won twice. This year, we need to do even better than that.

This is also the final year for a large and strong senior class:

Me, DJ Seo, Becky Scholz, Tyler Hannasch, Grayson Chadwick, Alan Pezeshki, Tom Lampo

We all have been playing together for 4 years now and have always been the core of the team. Making this final season the best one is more motivation for the seven of us to play well.”

## Beavers Take on Bulldogs

By Amol Kamat

STAFF WRITER

On a cold September night, the Beavers took on the soccer powerhouse that is the University of Redlands. Two early strikes from the Bulldogs quickly put the game out of reach, but an inspired Caltech defense, led by goalie Marcus Lucas, allowed only one goal in the remainder of the half.

The defense continued to hold tight for the first twenty minutes of the second half before allowing four more Bulldog goals. The second half also saw the first major Caltech offensive attacks of the night, though they all sizzled before coming to fruition. Still, the Beavers were entertaining to watch, typically drawing more cheers than boos from the five assembled Beaver fans.

Notable highlights from the game include Jonathan Yeung’s almost goal in the waning minutes of the game and watching the Redlands fans’ reactions as Sarah Wright and Sara Venkatesh took the field at the same time, even cheering when Wright slide tackled a Redlands player.

The Caltech soccer team (now 0-3, although gocaltech.com counts the alumni game, making them 1-3) is ready to look past the 7-0 blowout. They will finish up a tough series of away games against Whitter and Chapman before a home stand against Pomona-Pitzer on Wednesday afternoon.



Gray Chadwick goes up for a header in a match against Oxy  
Photo courtesy of Radka Dancikova

## Frosh Survival Guide

### Caltech Membership Services

Hello and welcome to Caltech. Initial membership to the Caltech community is free for all students, and will remain so for as long as you're a student.

Free Membership services include:

Chandler: Where you get your lunch (you won't wake up for breakfast)  
 North or South kitchen: where you eat your dinner  
 One room in House: you get a room in a House that you rotate into  
 Blazing fast broadband: download anything you want in seconds, HD streaming!

For most people, these services are enough. But some people simply want more. For those people, we offer Caltech Gold memberships.

Caltech Gold offers many new services free membership doesn't have, including:

Access to all Houses: Now, feel free to walk into any House on campus. Interhouse communication has also been opened up. Is there someone in another House that you want to talk to? Now you can!

Access to Professors: Ever see a professor and wonder "I wonder what having a dri-lunch with him would be like?" We offer programs where we will pay for lunch and dinner so you can do exactly that.

Varsity and club sports: Want to ball someone up? Ever play a sport? Do you have zero experience but still want to learn a sport? Do you just want to bean someone in the face? Now you can. We offer NCAA varsity teams, as well as club sports and Interhouse athletic events.

And More!: Such as the MOSH, ASCIT, as well as Tom Mannion (read - delicious food).

Caltech Gold is a special service for special people. However, for a finite time only, membership is offered for a low, low price of simply asking any upperclassmen if you can join in something fun.

Whichever membership you choose, we're sure you'll enjoy your time here and wish you the best of luck. Feel free to utilize the free membership services as long as you want. If you ever feel like you want something more, join Caltech Gold, and get access to a secret Gold only handshake.

### Stages of Caltech

#### Excitement

"Wow, the world's foremost playground for math and science. I'm so excited to be here."

"I can't wait for the lab classes. I'm really looking forward to Chem 3a. How is that class?"

#### Confusion

"Um, you guys are also having some problems right? Right? Please? ..."

"So, can someone explain what induction is?"

#### Depression

\*sobs\* "What's going on?"

"Oh no, at this rate I won't be able to get a P plus."

#### Newfound wonder

"Woah, did you know Professor Makorov also plays water polo?"

"I never knew you could do that. That's so cool."

#### Newfound purpose

"Yeah I've been spending a lot of time on this project. It's really exciting."

"Hopefully I can work in Professor BLANKS lab this summer. It's gonna be legend - wait for it - dary."

#### Disillusionment

"SHUT UP FROSH"

"Hey I'm having some problems understanding contour integration, can anyone help me?"

"SHUT UP FROSH"

"Hey, I'm having some problems understanding contour integration, can anyone please help

"SH... oh hey baby of course I can help you. Call me Mr. Dependable."

#### Release

"Ah, I've finally graduated. Time for the real world."

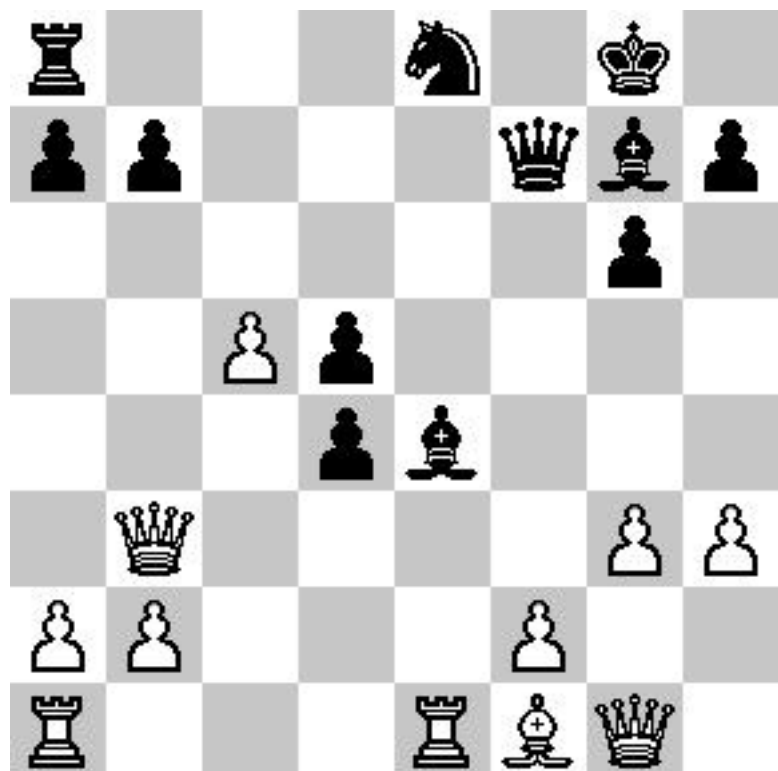
"FREEDOOOOOMMM!"

#### Rebirth

"Ah, the University of BLANK Graduate School of INSERT DEPT HERE. The top place for INSERT FIELD HERE."

### APPLES AND ORANGES

BY REBECCA LAWLER



The California Tech

Caltech 40-58  
 Pasadena, CA 91125