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VOLUME CXIV NUMBER 5

PASADENA, CALIFORNIA

OCTOBER 28, 2010

Admissions Committee reduces undergraduate involvement to follow faculty bylaws

Faculty board skeptical that students should read applications at all

By James Wu

STAFF WRITER

The number of undergraduates on Caltech's admissions committee (AdCom) this year has been reduced from fifteen to three in order to reduce the student to faculty ratio below the limit set in Caltech's faculty bylaws.

Caltech's faculty bylaws (Article VII, Sec 9) require that in any committee overseen by the faculty board, the faculty members must outnumber the students by a ratio of at least three to one. The sole exception to this rule is that a committee with five faculty members can have two students. For many past years, Caltech's AdCom violated this bylaw regulation, last year reaching a student to faculty ratio of 10:16.

"I really don't know how long ago it happened, but it is in violation of the bylaws, and I don't think it is a healthy situation," wrote Caltech faculty board chair Dennis Dougherty, who first became aware of the issue this summer.

Caltech's AdCom is a unique mix of staff, faculty, and students. No other college has as much student involvement in the admissions process as Caltech does—AdCom undergraduates read and vote on applicant files.

According to a draft of the October 4 faculty board meeting minutes at oof.caltech.edu/fac_board/10-11, some faculty

were surprised to learn that students were so involved in the admissions process. Many were concerned that students were privy to the private information of incoming freshmen, questioning whether student involvement was even legal.

At the end of the discussion, an informal vote showed that fourteen faculty board members opposed and only four faculty board members were in favor of undergraduates reading application files. President Chameau noted that "he found it difficult to give a 'yes' or 'no' answer in the absence of specific proposals as to what, exactly, the students are being envisaged as doing."

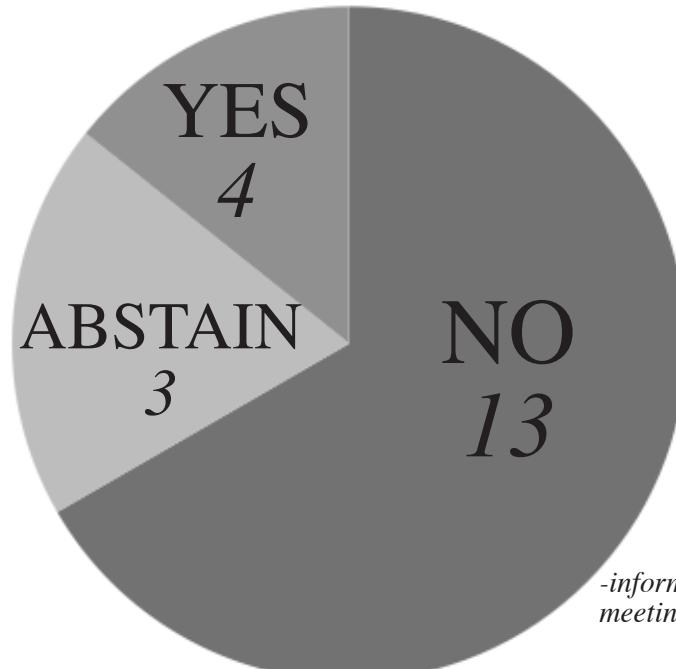
In response to the bylaw violation, the Interhouse Committee culled their list of seventeen appointed undergraduates to three committee members and two alternates. The number of AdCom faculty members has not changed.

Caltech Admissions is still discussing potential roles for the remaining ex-AdCom undergraduate representatives. "They will still be very helpful to the Admissions Committee," said Admissions Director Jarred Whitney, who is meeting with these ex-AdCom representatives on November 1st to decide what role(s) they might play. "I will still rely on their input."

Professor Kim Border, the chair of the freshman admissions com-

"Do you think it is appropriate that undergraduates are so deeply involved in the admissions process? If you think that undergraduates should be involved in reading the applicant folders, please raise your hand."

-Faculty Board Minutes Draft 10-04-10



-informal vote at Faculty Board meeting 10-04-10

mittee, explained that when he was an undergraduate at Caltech over forty years ago, there were no students on the admissions committee at all. Instead, all student applicants had to be interviewed by a faculty member.

According to Border, one Ad-

missions Director added students to Caltech's AdCom to help with the workload. "Afterwards, as more and more people started applying, they kept increasing the number of students on the committee," said Professor Border.

When asked, most students

were either not aware of the new changes, or decline to comment on it as it is a matter that's still being discussed by the student affairs groups on campus. The

**SEE PAGE 6,
UNDERGRAD CUT**

Page loses off-campus alley in Eco-rotation

By Tina Ding
EDITOR-IN-CHIEF

Page House has lost its off-campus house, the Holly, and five freshmen spots for the current school year because not enough freshmen picked Page during Rotation, according to Interhouse Committee (IHC) Chair Tim Black.

The five upper-classmen students Anish Agarwal, Alexander Runkel, Stephen Worlow, Sue Jiang, and Swadhruth Komanduri, who lived in Holly prior to this implementation have now moved on campus to the vacant spots in Page. Housing will decide who will live in the Holly this year.

"Our main goal is to let more freshmen be in houses they rank high, and if we could make that happen without shuffling students around [such as moving students in the Holly], we would," said Black.

The allocation of freshmen follows Eco-Rotation, a new Rotation policy formulated under Vice President of Student Affairs Anneila Sargeant last year. Eco-Rotation aims to "end the fixed quotas of incoming students assigned to each house, such that houses that fail to attract sufficient rankings from incoming students will shrink (first by losing an off-

SEE PAGE 6, ECO-ROTATE

CIT turns on South Wilson Solar Array 8th highest solar capacity of any university

By Joel Nikolaus
STAFF WRITER

On Wednesday, Caltech finally completed a major step in its goal of making the campus more sustainable when it officially turned on the solar array over the South Wilson parking structure. Combined with the arrays scattered on other buildings across campus, it brings Caltech's total solar capacity to a total of 1.3 MW and over 4,500 solar panels.

"Caltech is taking a big step to being a more sustainable campus," said President Jean-Lou Chameau to the faculty, students, and other members of the community gathered to celebrate the event. "Although Caltech is a small campus, it now has the 8th highest solar capacity of any uni-

versity in the country."

Despite the relative size, that entire capacity has been put in place within the last two years. Caltech's first solar array on the Holliston parking structure, Phase I, came online in late 2008. The 423 kW solar array over Wilson is the final part of Phase II. With solar panels installed on eight buildings, it is a large, and perhaps the most visible, component in Caltech's commitment to reduce green house emissions.

The new solar power, no doubt, played some role in the grade on Caltech's recent sustainability report card, a rating of colleges' sustainability, on which it received an A-. "Ranking of university for sustainability is becoming very important and students are paying attention to it," said Chameau. "At Caltech some students might

not be all that happy with that grade, but we will accept it. A few years ago we received a C."

However, the solar arrays are not the only part of the campus's plan to improve stability. "[The solar array is] only one example of what we are doing with buildings," said Chameau. Caltech is also making other modifications to buildings on campus, some small such as changing to more efficient lighting and more efficient cooling. Other changes are more drastic. Robinson, when completed next May, will be among the most efficient scientific laboratories in the country.

As for any additional solar power, "[t]hey are going to put in two more [solar arrays] in Robinson and South Mudd," said Rick

SEE PAGE 6, SOLAR

Preview of some "colorful" candidates in upcoming midterm elections

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BIG SHAGGY Band of Brothers

By Hank Charlotte

Today marks the beginning of midterms. For some, this will be their first exam season at Caltech, for others only one of many. It is a time of austerity and great exertion few other college students will suffer through. But wish not for any lesser opponent than Caltech. With this great challenge comes a greater measure of honor.

This day is called the feast of Crispian. On this day, we face a test of will, a test of strength, a test of courage we call midterms. He that braves these trials and emerges the better for them shall one day say to his son, "These nights I slept not at Caltech." He whose mettle is tested and whose mind has been refined in the fires of tribulation shall one day stand a tip-toe amongst his peers and on graduation day proclaim, "These feats I did at Caltech." And when we are aged and weary, much will be forgot; but this time together we shall never forget.

So take heart. A long road is ahead of us, but we few, we happy few, we band of brothers

will travel it together. For he that works alongside me here is my brother.

Goodluck and Godspeed. See you on the other side.

Yes, today really is the feast of St. Crispin and I figured we could use a dose of Shakespearean courage. I've only butchered the real Shakespearean call to arms, so go see Henry V's St. Crispin Day Speech at <http://www.youtube.com/watch?v=cRj0ILShXN8&feature=related>.



Photo from artofmanliness.com

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The Tech is published weekly except during vacation and examination periods by the Associated Students of the California Institute of Technology, Inc. The opinions expressed herein are strictly those of the authors and advertisers.

Letters and submissions are welcome; email submissions to tech@caltech.edu as plain-text attachments, including the author's name, by Friday of the week before publication. *The Tech* does accept anonymous contributions. The editors reserve the right to edit and abridge all submissions for any reason. All written work remains property of its author.

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ASCIT Minutes

*ASCIT Board of Directors Meeting – Minutes
October 22, 2010*

Officers Present: Adam Khan, Brian Merlob, Prakriti Gaba, Karthik Sarma, Chris Hallacy, Tim Black
Officers Absent: Addie Rice

Call to order: 12:07 pm

President's report:

- *Big Interhouse:* Adam plans to meet with the big interhouse committee this week to further prepare for Big interhouse. November 20th has been set as the date for Big Interhouse.
- *Olive harvest:* is Nov 5th.

Officer Reports:

- *Operations Director:* Yearbooks are being distributed this week. Contact the secretaries of your house for your copy.

- *Treasurer:* Hallacy plans on confirming the individual salaries of the committees and clubs on campus.

- *Secretary:* The ASCIT board will be set up soon.

Discussion:

Salaries: Current salaries for clubs and committees are approved (4-1-0).

Euro Party: is scheduled to take place on Nov. 12th.

Meeting adjourned: 12:16 pm

*Submitted by Prakriti Gaba
ASCIT Secretary*

A closer look at the loss of Hion's peer program

By Wesley Yu

STAFF WRITER

Two weeks ago, I wrote an article that was quite critical of the Humanities and Social Sciences Division, as well as President Chameau, for the decision to suspend the Hixon Writing Center's peer tutoring program. I made some small errors in that article, which I will correct here, and added an unwarranted pinch of vitriol, characterizing some of the leaders of this Institute as financially fixated. As a journalist, I can be passionate, maybe even overzealous, and in my rush to notify students about the situation, I imagined demons that were not there. For that I apologize to the administrators I chastised, my fellow journalists, and you my reader.

According to an e-mail from President Chameau, "the Hixson[sic] Center has not been closed, however one component, the peer writing program, has been suspended until a faculty committee led by Professor Kevin Gilmarin develops a plan and goals for the Hixson[sic] Center so that it better aligns and integrates with the writing curriculum." In addition, Prof. Jonathan Katz, Chair of the HSS

division, has said that the Hixon Center costs significantly more than the \$6,750 paid for tutor salaries. I am not at liberty to say how much more, but it is a little more.

That is not to say that everything is hunky-dory. I still think the HSS division was wrong to suspend the program without notifying students. In fact, there still hasn't been any official announcement and I feel sorry for students needing help who might have shown up to an empty room. It was also irresponsible to suspend the program without first considering the possibility of taking measures to ensure that students do not fall through the cracks this year when it comes to writing. Some students really need this program, especially with application season in full swing.

I presented both these concerns to Prof. Katz and Prof. Cindy Weinstein, the executive officer for HSS, in a meeting last week. They explained that the HSS division is making significant changes to the writing curriculum and has commissioned a faculty committee to create a comprehensive writing program for implementation in the next academic year. In the meantime, students are expected to approach

their professors for writing assistance. Both Profs. Katz and Weinstein were extremely well intentioned and were receptive to suggestions. In particular, we discussed adding student representation to the faculty committee (since the program is for undergraduates, after all), and finding a way to continue a peer writing program under the Dean's tutoring budget at a minimal cost this year. These two actions will allow students to have a say in what happens in the future, while giving relief to students needing help with writing now.

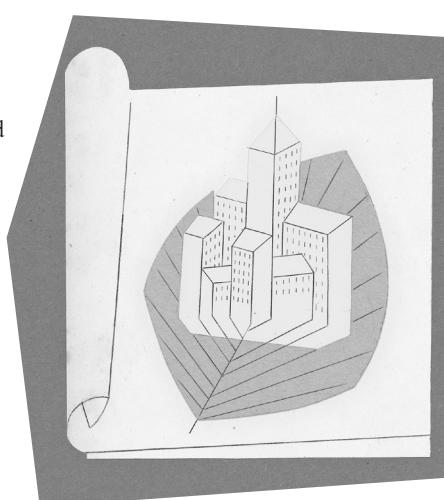
Unfortunately, after the meeting, Prof. Katz became uncomfortable with direct student participation on the faculty committee, preferring instead that students form a sub-committee that would serve in an "advisory capacity and would present its findings to the faculty committee." Prof. Gilmarin, the chair of the faculty committee, has assured me that "student concerns and student input will be taken seriously."

With regard to moving the peer writing program under the Deans, which would be more cost effective, Prof. Katz is in discussions with Prof. Anneila Sargent, the Vice President for Student Affairs. I'll be crossing my fingers.

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Time: 5:00–8:00 p.m.

www.columbia.edu/cu/mpaenvironment

How direct democracy has failed in California

By Pradeep Ramesh

STAFF WRITER

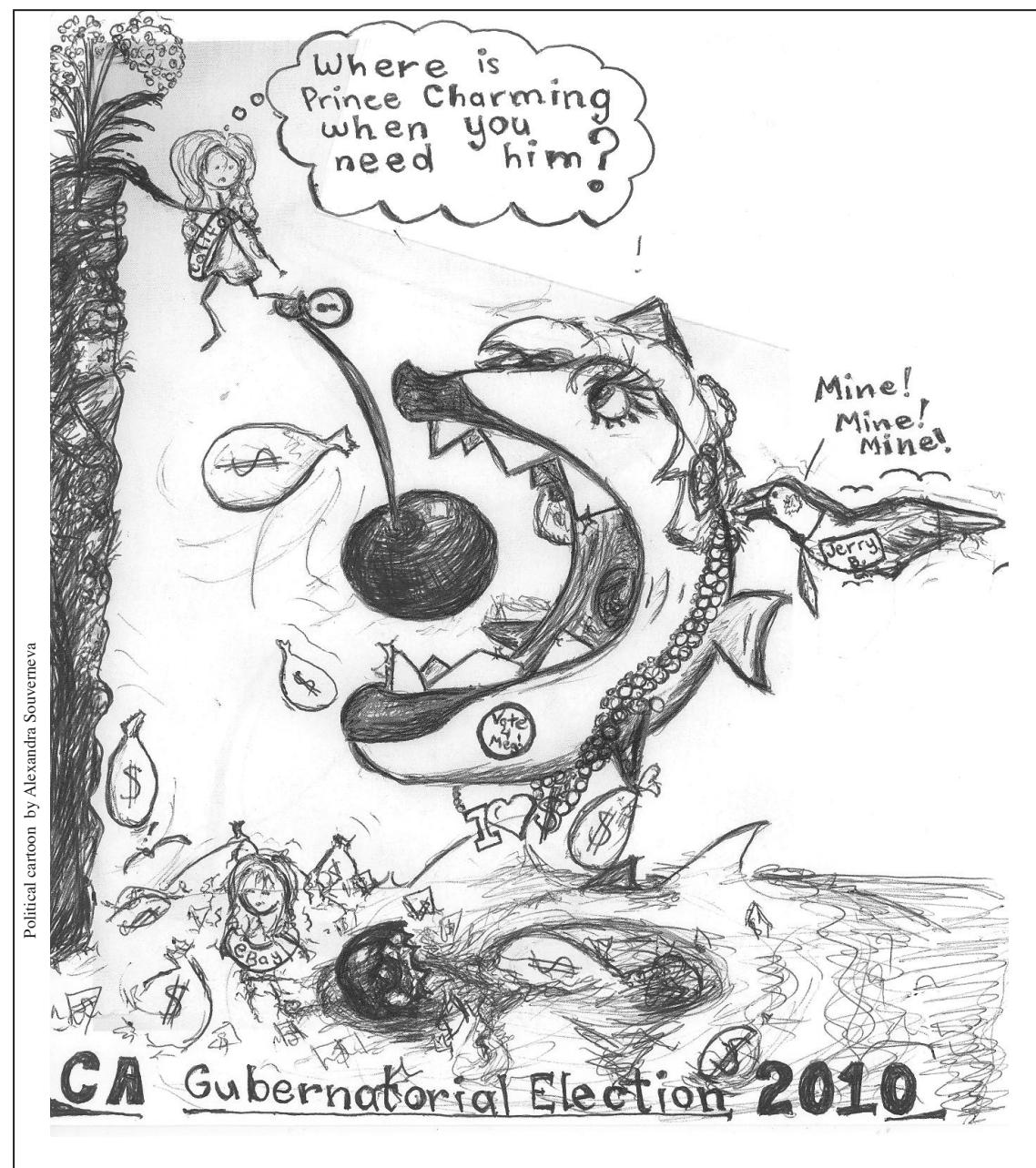
The California Constitutional amendment initiative is a constitutionally defined petition process of "proposed constitutional law," which results in its provisions being written directly into the state's constitution. An initiative is introduced by first submitting a petition to the California Attorney General and then obtaining signatures from registered voters amounting to 8% (for a constitutional amendment) or 5% (for a statute) of all those who voted in the most recent gubernatorial election. If the number of valid signature exceeds the required minimum, the petition is submitted to voters as a proposition. The proposition becomes a part of the state constitution with a simple majority ruling and has the same legal implications as a law passed by the state legislature and approved by the governor.

While direct democracy is sound in principle, it is simply not practical at the state level given that most ordinary voters are not sufficiently well-informed about the consequences of passing proposed initiatives.

and all proposed solutions. Even though some proposed initiatives, such as Prop 20 which seeks to remove elected representatives from the redistricting commission, appear sound, we can only wonder why the legislature has not passed such a measure before. With each passing election, the ballot initiative system, initially designed as a complement to the established legislative process, has now become one of the key cornerstones of public policy making, while the legislature flounders in perpetual deadlock. Out of increasing desperation and frustration, California residents are becoming increasingly more reliant on ballot initiatives as a means of fixing critical problems that the state faces.

democracy is consequently, a large number of the proposed initiatives, such as Prop 19 (legalization of marijuana)

for example, are either poorly designed, or are arbitrary and bizarre solutions to critical problems (Prop 21). Others are downright fantastic in their proposals. For instance, Prop 23 argues for suspending the implementation of state air pollution control laws until state unemployment drops to 5.5% or less for a full year. The fact that such an initiative is even up for consideration, while alarming, points to the frustration of ordinary voters with the legislature's inability to bypass



Political cartoon by Alexandra Souvereina

partisan gridlock. The ballot initiative system, as it stands, is often hijacked by special interest groups. As such, many proposed initiatives are targeted to benefit a select few despite being phrased in a globally palatable language. Although the legislative process is more time-consuming, we can

be certain that the proposed initiative's impact is well documented by an independent commission. I believe that we as voters should send politicians a strong message by voting those who do not deliver out of office. Despite its failings, I believe that an established legislative system is far better than the

form of citizen driven democracy that is currently taking shape. We should reform the system such that propositions that pass do not automatically become law, but instead have to be approved by the legislature and signed by the governor.

LETTER TO THE EDITORS: No Logical Reason for Prop. 19 Support

In his op-ed last week, staff writer Evans Boney made an impassioned argument for the support of California Proposition 19, a ballot initiative which would legalize certain activities related to the use of marijuana. Unfortunately, Mr. Boney cites not one explicit fact, and instead offers a variety of emotionally charged statements to make his case, throwing up a smoke-screen argument in the process.

Broadly speaking, his argument for support rests upon three general views: 1) existing marijuana laws are racially motivated and allow for the discrimination of minorities, 2) the Mexican state wishes for the US to legalize the drug, 3) tax revenue related to the legal sale of marijuana would help offset California's chronic deficits.

While his points look good in principle, dig a little deeper, and several flaws emerge. Moreover, Mr. Boney fails to appreciate the harsh realities which would occur should Prop. 19 pass. There are several points worth making in this regard:

1) Mr. Boney contends that disparate sentencing - in which a

law makes distinctions between the type of drug and the length of the sentence - constitute "de facto Jim Crow laws", when no such thing is, in fact, occurring. More specifically, he points out that in most states, possession of a few grams of crack cocaine yields a stiffer penalty in terms of jail time than the possession of a larger quantity of powder cocaine. This I do not argue with. However, the logic at play in these laws is more about the disparate degree of damage caused by the use of a drug in its various forms, as well as the violence associated with these different forms. If the use and distribution of crack cocaine is more harmful for society, why shouldn't a law create a stronger penalty for its use?

2) Mr. Boney believes that a personal appeal by Mexico's President Felipe Calderon should provide an impetus for the legalization of marijuana. I should like to point out that Mexico enacted a law in 2009 (which Calderon supported), the result of which was to legalize the consumption of marijuana, cocaine, methamphetamines, and heroin in small quantities. However, this law co-

incided with the pre-2009 rise in domestic drug consumption, and, for a country which lacks the necessary bureaucratic infrastructure to handle an influx of drug-related cases, outright legalization would be the optimum path to prevent stress on an already fragile legal system. While we may have a similar problem here in the United States, it would be hard to argue that our courts are so over-worked that the best solution to solve our domestic drug problem is to legalize them!

3) Mr. Boney believes that the tax revenue gained from the regulated sale of marijuana would help make up the state's deficit, calling such funds a "veritable stimulus package". However, he fails to appreciate how increased regulation begets increased bureaucracy. Which new agencies will come into existence to help ensure compliance? How many agents will local municipalities have to hire in order to make sure the law is being followed? Perhaps the savings are not as large as Mr. Boney would like to hope.

Finally, I would like to ask a question-if Proposition 19 were to pass, what becomes of gangs

trafficking marijuana? Mr. Boney correctly points out how the sale of drugs is one of the largest sources of income for gangs. One could argue that the cost of marijuana would drop if it were to be legalized, and as such, gangs would simply stop dealing in it as profit margins become thinner and thinner. This thought is nice-gang violence goes down as a result-but fails to realize that a gang is a business organization, and in business, when one product stops doing well, another must be found. Instead of drugs, what will gangs turn to next? How does this solve our problem of gang violence in the US? It doesn't. In fact, it exacerbates the problem.

Proposition 19 may be very well-founded from an emotional standpoint, but there are no sound reasons to give it support. Drug use is a problem in the United States, but simply making our problems legal doesn't solve them.

By Travis Scholten, junior

Career Fair companies accommodated

Dear Editor,

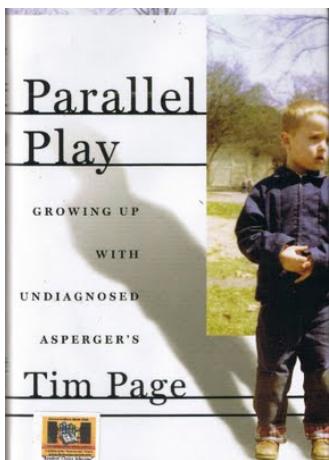
Thank you very much for the article you included in The Tech about our upcoming Career Fair on Tuesday, October 26. The Director of the CDC, Lauren Stolper, and I would like to let you know that we have accommodated all companies that wanted to attend the fair. We are now expecting upwards of 80 companies at the fair to recruit our students, post-docs and alumni.

Sincerely,

Mandy Casani
Assistant Director, CDC

Corrections

The article in last week's Tech on Explore LA contained some factual errors. In particular, there were actually nine undergraduates and seven graduate students at the Galaxy LA soccer game.



Asperger-diagnosed Pulitzer Prize winner gives riveting memoir

By Sandhya Chandrasekaran

We think we've all heard the story before: "A person afflicted with some sort of illness overcomes the odds with determination, perseverance, and the help of his friends and family." Tim Page convinces us otherwise in his memoir, *Parallel Play*. Page is no ordinary man. He has been a music writer and critic for *The New York Times*, *Newsday*, and *The Washington Post*. In 1995, he was awarded the prestigious Pulitzer Prize because of his "lucid and illuminating" music criticism for the *Post*. As he was nearing the age of 50, Page was diagnosed with a condition known as Asperger's syndrome, a mild form of autism characterized by significant difficulties in social interaction as well as restricted and repetitive patterns of behavior and interests. Unlike other forms of autism, linguistic and cognitive abilities are considerably developed.

Page always knew he was different. While other kids around him were running around wildly and enjoying life, he was pondering over the concepts of death and violence. While he could recall the minutest details about the most random subjects, he would constantly receive unsatisfactory, often failing, grades on report cards and assignments. "I am left with the melancholy sensation

that my life has been spent in a perpetual state of parallel play, alongside, but distinctly apart from, the rest of humanity," he admits in the prologue. Even though Page is aware of his eccentricities, he is unable to adjust them enough to form bonds and emotions with other people. He casually mentions his parents, siblings, and lovers, with little to no sense of connection with them. It is almost as if they are completely lost in the sea of music he plunges into every time life becomes difficult.

Music is Page's escape from a world he is trying to understand. He can recall the titles to a wide range of music from a variety of genres. Throughout the book, whenever Page brings up music, he quickly goes off on a tangent, unaware of his rambling. Pages and pages on famous composers and albums, almost in a list-like fashion, serve as a constant reminder of Page's insightful gift into the styles and rhythms of music.

Asperger's aside, Page's life is still quite extraordinary. Fatal car crashes, panic and depression bouts, drug addictions – it almost seems unreal. However, something about the matter-of-factness in

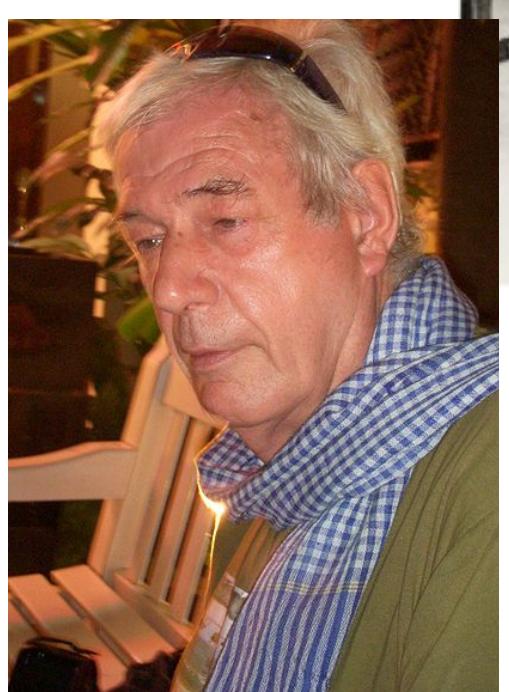


Photo from Wikimedia



Photo from The New Yorker

From the left, Tim Page at age 64 at an art exhibition in Cambodia; A very young Page was already obsessed with music

Page's writing conveys a more down-to-earth, relatable persona that grounds the story. There is no false voice employed, and his experiences pierce even deeper as a result of it.

Simply put, this book is so much more than what the author intends it to be. What easily could have disintegrated into a sob story instead rings loudly in our ears days after finishing. *Parallel Play* is not only a chronicle of Tim Page's past but is a reflection of his present, and offers so much for readers to appreciate and learn about the unusual life of this remarkable man.

THE FACEBOOK FILM:



Photos from www.onlinemoviehut.com

*not
the
typical
action flick,
but a thriller
nonetheless*

By Caroline Yu

A-

The Social Network, also known as the "Facebook film", stars Jesse Eisenberg, Justin Timberlake, Rashida Jones and is directed by David Fincher

Lights, check. Cameras, check. Action? There is action, but not the usual Hollywood stunts. From the very beginning, "The Social Network" defies the norm, using witty dialogue and disjointed scenes to allow the viewers to discover the truth behind Facebook's creation on their own. Filled with wit and wile, "The Social Network" subtly captivates and involves the viewer.

The movie is well directed, brilliantly scripted and adeptly acted. With talent like director David Fincher ("Fight Club" and "The Curious Case of Benjamin Button"), writer Aaron Sorkin ("The West Wing") and actor Jesse Eisenberg ("Zombieland") on board, "The Social Network" doesn't disappoint. Despite most of the movie being set in front of computer screens, the

movie is a thriller nonetheless, making unlikely topics like business ethics, class distinctions and intellectual property captivating.

Unlike the standard Hollywood flick, "The Social Network" doesn't try to make its characters sympathetic, or even likable. Zuckerberg seems terse, anti social, and selfish at times. Even so, the viewer can-

not help but connect with the characters, recognizing their hubris and hurts. Both Justin Timberlake (Sean Parker) and Jesse Eisenberg deliver standout performances, interpreting easily caricatured roles with sympathy and even-handedness.

In the end, the movie is all about the viewer. Centered about two court cases, "The Social Network" leaves the final verdicts for the viewer to decide. Did Zuckerberg commit intellectual theft? Was success worth sacrificing friendship, love, and, some might argue, honor? What about our own reasons for using Facebook? Are they comparable to Zuckerberg's poisonous motives in creating Facebook?

"The Social Network" seems to be an escapist film, but is very much engaging, thrilling and defies all expectations.



Alvin Greene, Democrat
South Carolina Senatorial Candidate

Currently unemployed and living with his father, Greene won the Democratic primary for the US Senate seat for South Carolina by a 59%. His qualifications include an honorable military discharge and an indictment on obscenity charges for showing pornography to a college student in the library. He believes steadfastly that his Republican opponent, Jim DeMint, is the sole cause for the recession and plans to put Americans back to work making Alvin Greene toy figurines.

Sharron Angle, Republican
Nevada Senatorial Candidate

Warns against American cities (ex: Dearborn, MI; Frankford, TX) being taken over by militant terrorist organization that are imposing foreign Muslim, specifically, Sharia law. Also does not believe that the US Constitution mandates the separation of church and state. Shock: As of early October, polls showed she had just as much support as Democratic opponent Senate Majority Leader, Harry Reid.



PAPA SMURF

Jimmy McMillan, Rent is Too Damn High
New York Gubernatorial Candidate

Former postal worker and martial arts instructor, McMillan or self-named Papa Smurf, has run for office in New York six times since 1993 under the Rent is Too Damn High party, which he founded. In the recent gubernatorial debate, his heavy black gloves and unique facial hair rendered him the most conspicuous of the ten candidates on stage. Not

only does he promise "breakfast, lunch, and dinner" to the "wait, listen, do you hear that child's growling stomach?", but he also assures that "if you want to marry a shoe, I'll marry you [guys]." McMillan, in fact, does not pay rent for his Brooklyn apartment; instead, he pays with maintenance services for his building.

By Gloria Tran

DC'S CIRCUS SIDESHOW

Jim DeMint, Republican
South Carolina Senatorial Candidate
Believes that gay person and unmarried, pregnant women should not be teachers. "I answered as a dad with my heart, and not as a Senate candidate," he apologizes.



Christine O'Donnell, Republican
Delaware Senatorial Candidate

Denounced by the state's GOP party chair as someone who is "not viable" to be elected even as "dog-catcher", this Tea-Party-backed candidate defeated political veteran Mike Castle in the Republican primaries. She has admitted to "dabbling in witchcraft" and as a result of the backlash, begins her latest political ad with a chilling, "I am not a witch, I am nothing you've heard, I'm you." Last week, during a debate, she let slip that she didn't know the "separation of church and state" is in the First Amendment, let alone the Constitution. Yet, her victory attests to the unexpected uprising in strength of the new Tea Party entity.



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www.kaust.edu.sa

Applied Physics Professor nabs Medal of Science for photonics work

By Julia Su
STAFF WRITER

Caltech Professor Amnon Yariv has been named one of the recipients of the prestigious National Medal of Science award, which has only been given to 441 recipients in the award's fifty-year history.

Yariv's work focuses on the theory behind and practical applications of coherent light generated from lasers. It has led to advances in the field of optics and communication through light waves, and the achievements that have earned Yariv this honor will be celebrated in a formal ceremony at the White House this November.

To the scientific world, Yariv's work has advanced human understanding of photonics and quantum electronics; however, Yariv views his work as a series of "games". Every day, he gets to play with light of different frequencies, pass it through crystals, and observe the outcomes. Sometimes, the conclusions drawn from his research are non-intuitive, a trait which he finds exciting.

For Yariv, it was natural that he devoted his life to studying light. His fascination with waves, first as a body boarder, and later on as a scientist, has kept his love researching light alive, he said.

His success was the result of intensive collaboration and the "billiard balls" of intuitive feelings, which he say help put him on the right track to the next discovery.

So far, the common themes of Yariv's research include generating light, investigating the purity of light from lasers, and learning how to "massage and sculpt" the medium (light) into something useful. The most important contribution Yariv has made is probably perfecting optical communication-- his research into silica-optical fibers and the ability of light to carry information has become the source of transferring data for the Internet. All this has to do with linear optics.

Now, Yariv is working towards understanding nonlinear optics by analyzing the coherence properties of light. Some of the current "games" he plays with light include sending red light through a crystal only to have UV rays come out the other end.

Campus will see new and improved recycle bins

By Jenny Yung
STAFF WRITER

The students from Engineers for a Sustainable World (ESW) will be replacing the current recycling bins on campus with more user-friendly recycling bins by this year's Olive Harvest Festival.

The existing external recycling bins were not used correctly by the Caltech community, said graduate student Jelena Viskota, organizer of the project. The improved recycling bins will follow the international recycling bin color code and have holes for California Redemption Value beverage containers, mixed paper, and all other recyclables. The new bins will have directions on which wastes are recyclable and which hole each recyclable belongs into.

This recycling project will be entirely implemented by the students from ESW with financial support from Caltech Facilities. The new design for the recycling bins on campus will be chosen at the next meeting.

Solar

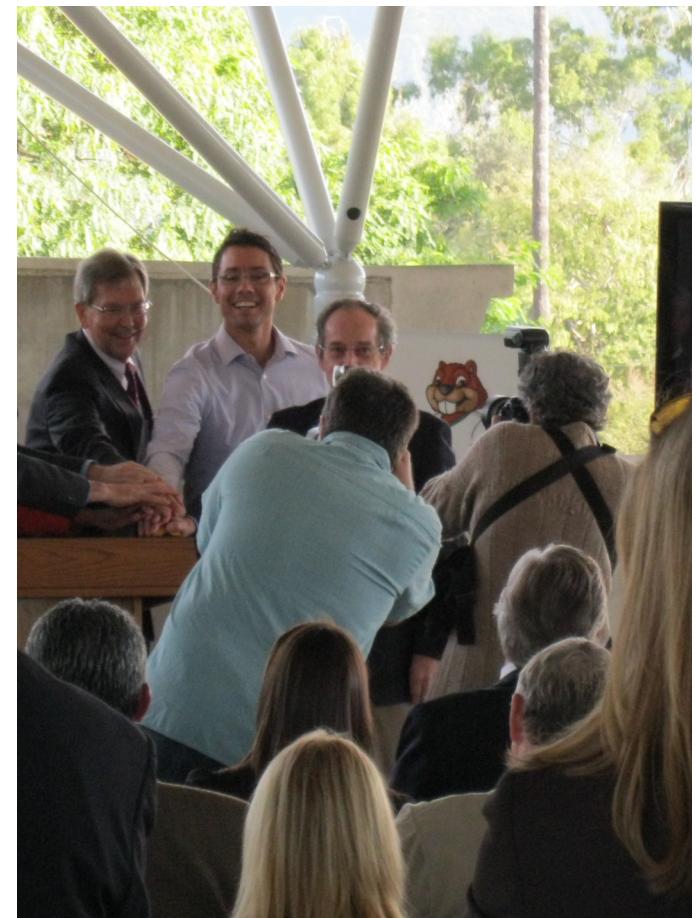
continued from page 1

Canny, a project manager in Facilities. "They are going to be a different type of solar array. They are being put in by the builders." Beyond the smaller arrays added to these two buildings, there are no current plans to place additional solar cells on campus.

The addition of fuel cells around campus will also contribute directly to the institute's

power requirements. There are already five such cells located outside of Cahill, but there are tentative plans to place as many as twenty of these cells on various locations around campus. The cells would presumably produce energy more efficiently than the alternative of buying it from Pasadena's grid.

In addition to the South Wilson Parking Structure, the other buildings that form a part of the Phase II plan are Braun Athletic Center, Baxter Hall, the Infrared Processing and Analysis Center



President Chameau's speech at the opening event is greeted with enthusiasm

Eco-rotate

continued from page 1

campus alley, eventually by losing an alley within the physical house itself, and finally by disbanding)...", as stated in the Final Report from the Ad-Hoc Rotation Review Committee.

As described in the Final Report, Page House will have a chance to regain their off-campus house next year if enough freshmen pick Page. Otherwise, Page House will lose an on-campus alley.

Prior to Rotation, each House held two spots for the potential extra freshmen. Out of the five freshmen spots that Page lost, Ruddock took two extra freshmen, Dabney took one, Fleming took one, and another House al-

ready had an extra vacant spot so they did not have to use their Eco-Rotation rooms.

"The feedbacks that [the IHC] and the administration received this year showed that Rotation was a lot more successful and positive," said Black. He explained that these feedbacks came from the anonymous rotation form given to freshmen after Rotation, and from what the MOSH and other administration figures had heard from students.

Eco-Rotation, developed after many fire, alcohol, harrassment, and other Rotation rules were broken last year, seems to have reduced the amount of rule-breaking this year. Only a few incidents were reported to the IHC.

Eco-rotation will be reviewed for change based on the response

from the Rotation survey out in December.

"We will be constantly updating the process based on what we learn from rotation each year," said Black.

Undergrads cut

continued from page 1

would-be AdCom undergraduate representatives are pretty upset, according to senior Theresa Geiger, who read applications her sophomore year as well.

"I do believe there should be more faculty input but the faculty don't seem to be willing to provide it," said Geiger. "It puts unfair burden on the Admissions staff [to read more applications]."

(IPAC), Cahill Center, the Annenberg Center for Information Science and Technology (IST) and the North Wilson parking structures. The construction of these arrays was made possible in part by rebates from the city of Pasadena, and in addition to Caltech's recognition among universities, Pasadena was recently listed among the 50 greenest cities in the country in a list compiled by Popular Science. The mayor of Pasadena Bill Boagard was among the crowd gathered to celebrate the event.

"I am here to congratulate Caltech for its accomplishment,"

said Bogaard. "We could not have a better partner...[It] will help put Pasadena on the map [for sustainability]."

Although the solar energy array is placed on the Caltech campus and Caltech uses the power, the array along with all but the 200 kW on Holliston of the current solar energy is actually owned by a company Perpetual Energy Systems. Perpetual conducts all the maintenance and other operation of the arrays for a contract that is expected to last 20 years. After this time Caltech can choose to either renew the contract, replace the equipment, or dismantle it.



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11209

Caltech soccer scores second win this season

By Amol Kamat
STAFF WRITER

On Monday, October 25th, the Caltech Beavers took on the La Sierra Eagles. The Beavers dominated the first half in terms of possession, but both teams failed to score before the half. The Eagles did find net ten minutes into the game, but the goal was called back due to an offside call (the Eagles never really learned what offsides meant.) The Beavers, too, had a few chances at scoring a goal, but sloppy finishes plagued the team. The first half did see the return of injury plagued Brice Nzeukou who finally hit the field.

The Beavers began the half slowly, but a few key substitutions reenergized the squad and set up the most epic Caltech goal of the season. In the sixtieth minute, Caltech soccer team co-captain Grayson Chadwick bicycled the ball into the net off of a Tyler Hannasch corner kick, even though Chadwick was suffering from a skinned leg. The twelve assembled Beaver fans went wild as the ball crossed the plane, and the sexy, shirtless vuvuzela players tried their best to vuvuzela.

Fun fact #1: vuvuzelas, loud



Caltech soccer team members celebrate after win.

monotone plastic horns, are only banned in the SCIAC-- so in a non-conference game, they are allowed.

The embarrassed Eagles tried their best to equalize, but Caltech goalie Marcus Lucas spoiled their plans, saving shot after shot. Lucas was also suffering from a leg injury, but he put the team on his back, too. Ayuluwakunmi Jeje nearly put the game away with another goal, but he failed to kick the ball.

The Beavers stayed strong throughout the rest of the game and came up with the W. A win

was exactly what the Beavers needed, as they came off a few tough losses to Oxy and Pomona. (Hey, remember when we beat them?)

Next up, the Beavers head to La Verne to try to turn this win into a streak.

Fun fact #2: La Verne calls itself "One of the best universities in the nation."

A video of Chadwick's bicycle kick is on the Caltech Athletics website, www.gocaltech.com/sports/msoc/2010-11/releases/20101025o7zqrg.

Southwestern volleyball pushes past Caltech effort

Southwestern (AZ) came up with big point late in each game to post a 3-0 (25-18, 25-20, 20-17) victory over Caltech Saturday afternoon in a non-conference women's volleyball match-up at Braun Athletic Center.

In the opening game Southwestern (16-6) jumped out to a 15-7 lead and continued to push forward with that advantage before grabbing their first game point at 24-15. However, the Beavers fought off three game points before succumbing.

During the second game, Caltech (1-16) held a 9-7 edge but the Eagles went on to score five consecutive points to take a 12-9 advantage. The Beavers continued to fight and got their deficit down to one point at 19-18 but couldn't get over the hump as Southwestern finished the game on a 6-2 scoring spurt to take control of the match.

Southwestern took control in the final game by scoring 10 of the game's first 16 points. But the Beavers decreased their deficit down to two points at 18-16. The Caltech rally stopped there as the Eagles went on to sweep the match by scoring seven of the third game's final eight points.

The Beavers offense hit .130 as a team which was the second highest mark of the season. Teri Juarez had a team high seven kills and .240 hitting percentage. Katie Peters chipped in six kills to go with her team high 12 digs.

-- Story taken from Caltech Athletics

Weekly Scoreboard

October 25, 2010

Men's Soccer
at La Sierra
W, 1-0 Final

October 23, 2010

Women's Volleyball
vs. Southwestern (Ariz.)
L, 3-0 Final

Men's Soccer
at Pomona-Pitzer
L, 3-0 Final

October 23, 2010

Men's Water Polo
vs. Redlands
L, 24-6 Final

October 16, 2010

Women's Volleyball
vs. Redlands
L, 3-0 Final

Upcoming Schedule

October 25, 2010

Men's Soccer
vs. La Sierra
4:00 PM

October 26, 2010

Women's Volleyball
vs. Whittier
7:30 PM

October 27, 2010

Men's Soccer
at La Verne
4:00 PM

Men's Water Polo
vs. Pomona-Pitzer
7:00 PM

October 29, 2010

Women's Volleyball
at La Verne
7:30 PM

October 30, 2010

Cross Country
at SCIAC
Championships at
Prado Park, Chino
8:30 AM

Men's Water Polo
at Occidental
11:00 AM

Women's Volleyball
at Occidental
12:00 PM

Men's Soccer
vs. Claremont-M-S
4:00 PM

November 1, 2010

Men's Soccer
at Soka
7:00 PM

November 2, 2010

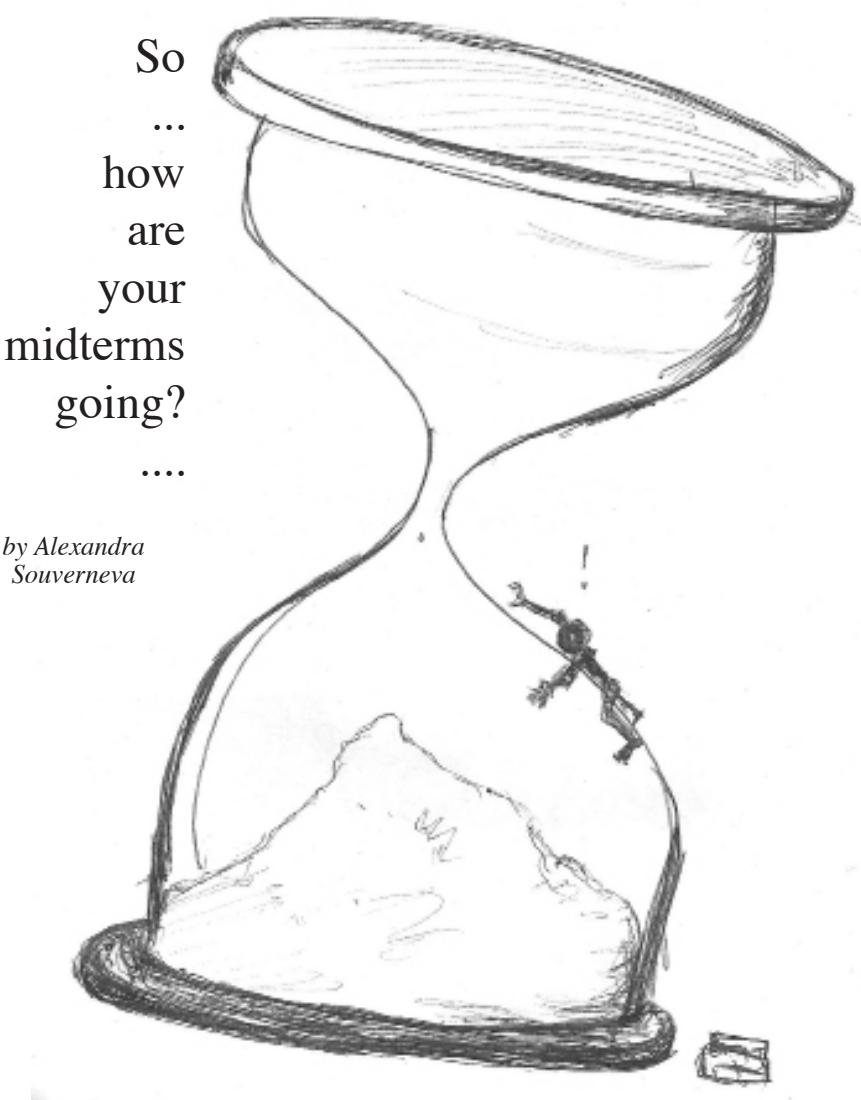
Women's Volleyball
vs. Pomona-Pitzer
7:30 PM

Tech's dating scene continues to be strangely entertaining.



So
...
how
are
your
midterms
going?
....

by Alexandra Souverneva



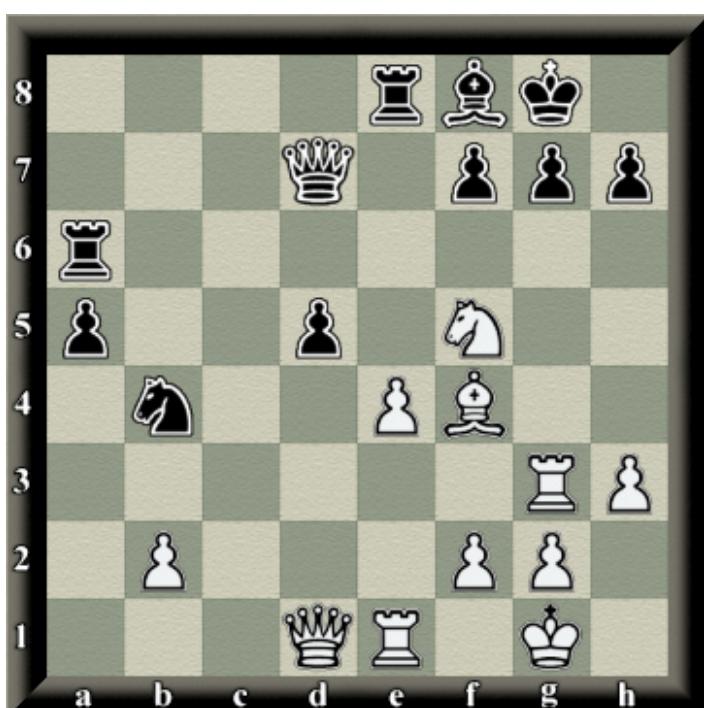
APPLES AND ORANGES



BY REBECCA LAWLER



Chess Club Problem of the Week



White to play and win. From Keres vs Gligoric, Yugoslavia 1959.

Solution to last week's problem: 1. Re8+ Nf8 2. Nh6+ Qxh6 3. Rxf8+ Kxf8 4. Qd8#

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