



## Tech scientists explore speed-dating behavior

**MARCUS WOO**  
Caltech Science Writer

For speed daters, first impressions are everything. But it's more than just whether someone is hot or not.

Whether or not we like to admit it, we all may make snap judgments about a new face. Perhaps nowhere is this truer than in speed dating, during which people decide on someone's romantic potential in just a few seconds. How they make those decisions, however, is not well understood.

But now, researchers at the Caltech have found that people make such speed-dating decisions based on a combination of two different factors that are related to activity in two distinct parts of the brain.

Unsurprisingly, the first factor in determining whether someone gets a lot of date requests is physical attractiveness. The second factor, which may be less obvious, involves people's own individual preferences—how compatible a potential partner may be, for instance.

The study, which is published in the November 7 issue of the *Journal of Neuroscience*, is one of the first to look at what happens in the brain when people make rapid-judgment decisions that carry real social consequences, the researchers say.

"Psychologists have known for some time that people can often make very rapid judgments about others based on limited

information, such as appearance," says John O'Doherty, professor of psychology and one of the paper's coauthors. "However, very little has been known about how this might work in real social interactions with real consequences—such as when making decisions about whether to date someone or not. And almost nothing is known about how this type of rapid judgment is made by the brain."

In the study, 39 heterosexual male and female volunteers were placed in a functional magnetic resonance imaging (fMRI) machine and then shown pictures of potential dates of the opposite sex. They were given four seconds to rate, on a scale from 1 to 4, how much they would want to date that person. After cycling through as many as 90

faces, the participants then rated the faces again—outside the fMRI machine—on attractiveness and likeability on a scale from 1 to 9. Later, the volunteers participated in a real speed-dating event, in which they spent five minutes talking to some of the potential dates they had rated in the fMRI machine. The participants listed those they wanted to see again; if there were any matches, each person in the pair was given the other's contact information.

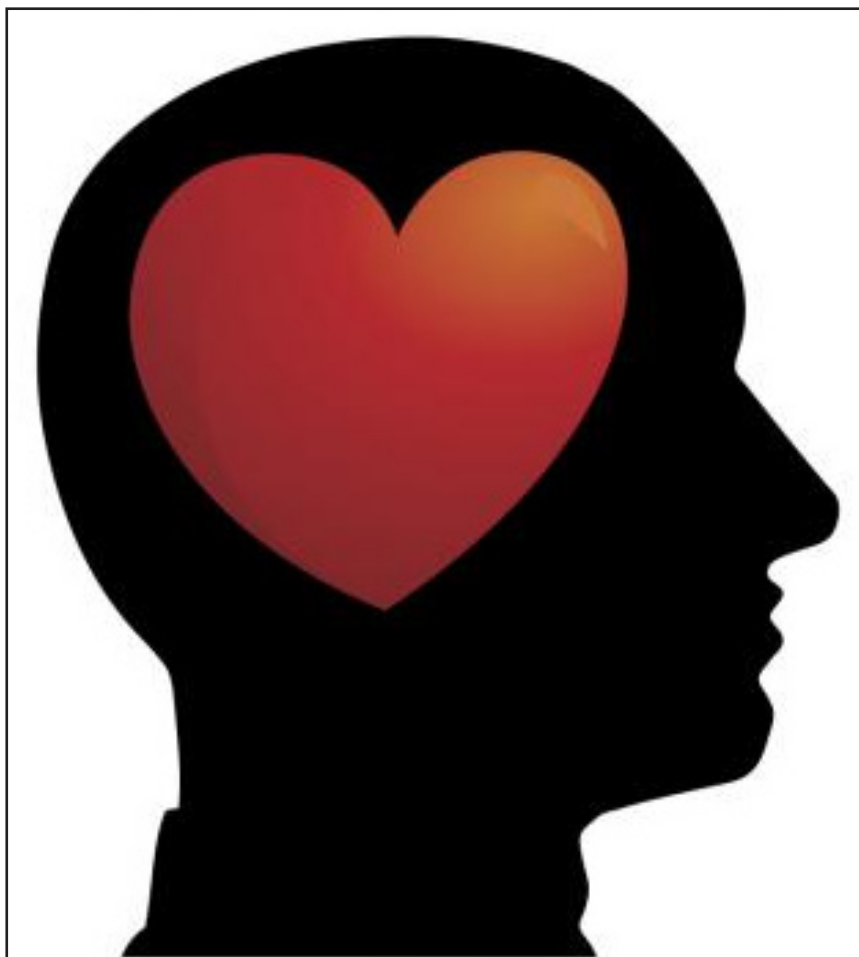
Perhaps to no one's surprise, the researchers found that the people who were rated as most

attractive by consensus were the ones who got the most date requests. Seeing someone who was deemed attractive (and who also ended up with more date requests) was associated with activity in a region of the rater's brain called the paracingulate cortex, a part of the dorsomedial prefrontal cortex (DMPFC), which is an important area for cognitive control and decision making. The paracingulate cortex, in particular, has been shown to be active when the brain is comparing options.

This phenomenon was fairly consistent across all participants, says Jeff Cooper, a former postdoctoral scholar in O'Doherty's lab and first author of the paper.

In other words, nearly everyone considers physical attraction when judging a potential romantic partner, and that judgment is correlated with activity in the paracingulate cortex.

"But that's not the only thing that's happening," Cooper adds. When some participants saw a person they wanted to date—but who was not rated as very desirable by everyone else—they showed more activation in the rostromedial prefrontal cortex (RMPFC), which is also a part of the DMPFC, but sits farther in front than the paracingulate cortex. The RMPFC has been previously associated with consideration of other people's thoughts, comparisons of



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oneself to others, and, in particular, perceptions of similarities with others. This suggests that in addition to physical attractiveness, the researchers say, people consider individual compatibility.

While good looks remains the most important factor in determining whether a person gets a date request, a person's likeability—as perceived by other individuals—is also important. For example, likeability serves as a tiebreaker if two people have equal attractiveness ratings. If someone thought a potential date was more likeable than other people did, then that someone was more likely to ask for a date.

"Our work shows for the first time that activity in two parts of the DMPFC may be very important for driving the snapshot judgments that we make all the time about other people," O'Doherty says.

As for the results of the speed-dating event? A few couples were still together six weeks afterward, Cooper says, but the researchers have not followed up. The study was focused on the neural mechanisms behind snap judgments—how those judgments relate to long-term romantic success, he says, is another question.

In addition to Cooper and O'Doherty, the other authors of the *Journal of Neuroscience* paper are Caltech graduate student Simon Dunne and Teresa Furey of Trinity College Dublin. The title of paper is "Dorsomedial Prefrontal Cortex Mediates Rapid Evaluations Predicting the Outcome of Romantic Interactions." This research was funded by an Irish Research Council on Science, Engineering, and Technology Fellowship, the Wellcome Trust, and the Gordon and Betty Moore Foundation.

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## News briefs from around the globe

*Helping readers burst out of the Caltech bubble*

### Need to know

< **100** words about the world this week – topics sorted from good to bad

by *The Tech Eds*

<b>Israeli Iron Dome works</b>	<b>90%</b> of incoming rockets stopped by system's interceptor missiles [NYT]
<b>Twinkies may live on</b>	<b>18,500</b> jobs lost, but Twinkies recipe and brand could be sold [WP]
<b>Birds get flown home</b>	<b>2</b> pelicans, blown to Rhode I. by Sandy, taken back to Florida [NBC News]
<b>Obama visits Burma</b>	<b>1<sup>st</sup></b> visit to Burma by a serving US president, promises friendship [Fox News]
<b>French winner unclear</b>	<b>100'</b> of votes separate Cope and Fillon in UMP race, claims of fraud [BBC]
<b>Serial killer in NYC?</b>	<b>3</b> murders linked to same handgun, not necessarily same shooter [CNN]
<b>Unrest in Gaza</b>	<b>18</b> people killed in raids in response to Hamas rocket fire [BBC]

## Food with Mannion!

*Do you like eating food?*

*How about free food at nice restaurants?*

*Ever want to tell the world exactly what you think of said food?*

*The Tech will be beginning a new column to chronicle the foodie experiences of new writers every other week... The Catch: They'll be going head-to-head with Tom Mannion who will be reviewing the same restaurant. If you have ever thought you were more of a gourmand than our resident master chef, now's your chance to prove it!*

*Email us for a spot on the list at [tech@caltech.edu](mailto:tech@caltech.edu)*

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## ASCIT Minutes

Minutes for November 15, 2012. Taken by Allika Walvekar

Officers present: Diego Caporale, Christian Rivas, Pushpa Neppala, Mario Zubia, Michelle Tang, Allika Walvekar, Puikui Cheng

Officers Absent:

Call to Order: 8:37 pm

**President's Report (Diego):** Ray Gonzales conducted a survey training class. He is a great resource if you need any future help on writing an unbiased survey.

The Caltech Writing Center is being revamped and moved to CSS.

The BoD had a meeting to revise the BoC bylaws that were released. A revised version with minor changes will be sent out to the community on Friday. A vote will be held the Monday or Tuesday after Thanksgiving. RA hiring will begin soon and the administrators would like to have more student involvement. Event registration for next year will be revamped and might include more training.

Officer's Reports:

**V.P. of Academic Affairs (ARC Chair: Pushpa):** A Tech bulletin was published this week about the SFC. Connor put together an UG research committee with SFP involvement for a morning presentation at the SFC. Pushpa is going to try to organize skype focus groups with 2-3 alums per option for the SFC. The ARC is currently choosing a Professor of the Month for November. Drop day is 11/21/12 and winter term course registration is 11/26/12.

**V.P. of Non-Academic Affairs (IHC Chair: Christian):** Big I construction is wrapping up. Financial concerns with funding have been clarified with the presidents.

**Director of Operations (Mario):** Club funding announcements will occur in the next few days as the Steering Committee met on Monday. Mario will be assigning club storage lockers for clubs that asked for them. The yearbook has been sent to the publishers.

**Treasurer (Puikui):** Sent out emails to the reps and the treasurers about Big I.

**Social Director (Michelle):** All the houses passed their second safety check. Registration online will be shut off Friday at noon. Olive Harvest is tomorrow.

**Secretary (Allika):** Looked into printing ASCIT Thank You Card but professional companies are too expensive.

Allika will be designing a Thank You Card and printing it on cardstock.

Meeting Adjourned: 9:31

## Bike Lab Announcements

*Want more and better campus bike racks? Let us know!*

Caltech BikeLab has met this week with the Caltech Transportation Office and are working to prepare a specific set of recommendations to improving the availability of bicycle parking around campus.

Is the bike rack near your lab, dorm, office always filled with bikes with no extra space to spare? Do you want more and better bike racks for your or favorite part of campus? Do you worry about bikes locked to nearby handrails as a potential safety hazard?

Now is your chance to let us know! Words work, but better yet would be to please take a photo (i.e. with your phone) and send it our way along with the approximate time, date, and location to [bikeshop@caltech.edu](mailto:bikeshop@caltech.edu)

### *Pasadena Fold 'N' Go Bike Subsidy Program*

The City of Pasadena and Metro developed a new and exciting folding bike subsidy program "FoldnGo Pasadena," which provides generous price discounts to transit riders to purchase a folding bike to ride to bus and/or rail stops in Pasadena.

If you live, work, or study in Pasadena, you can get \$220 off the price of a folding bike. <http://foldngobike.com/go-learn/>

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*Here's your chance to nominate your favorite professor for the 2012-13 Richard P. Feynman Prize for Excellence in Teaching! You have from now until January 2, 2013 to submit your nomination package to the Provost's Office to honor a professor who demonstrates, in the broadest sense, unusual ability, creativity, and innovation in undergraduate and graduate classroom or laboratory teaching.*

*The Feynman Prize is made possible through the generosity of Ione and Robert E. Paradise, with additional contributions from an anonymous local couple. Nominations for the Feynman Teaching Prize are welcome from faculty, students, postdoctoral scholars, staff, and alumni.*

*All professorial faculty of the Institute are eligible. The prize consists of a cash award of \$3,500, matched by an equivalent raise in the annual salary of the awardee. A letter of nomination and detailed supporting material, including, but not limited to, a curriculum vitae, course syllabus or description, and supporting recommendation letters*

*should be directed to the Feynman Prize Selection Committee, Office of the Provost, Mail Code 206-31, at the California Institute of Technology, Pasadena, California, 91125. Nomination packages are due by January 2, 2013.*

*Additional information including guidelines for the prize and FAQ may be found at <http://provost.caltech.edu/FeynmanTeachingPrize>. Further information can also be obtained from Karen Kerbs (626-395-6039; [kkerbs@caltech.edu](mailto:kkerbs@caltech.edu)) in the Provost's Office.*

# Student Voices: *Speaking out against BoC changes*

**SAM PISZKIEWICZ**  
Contributing Writer

Recently our ASCIT president sent an email to the undergraduate student body proposing changes to the BoC bylaws. In many houses, email flame wars ensued as students tried to figure out exactly how these changes could and would affect us. As is the case with most controversial issues on campus, some members of the student body have strong opinions while others are indifferent. I am not writing this article in the hopes that it will encourage this indifferent population to pick up pitchforks, but I do wish to raise some questions for you to think about before you vote.

The email begins with “the Board of Control has voted to change their bylaws”. Members of the BoC in multiple houses have confirmed that they did not vote on these proposed changes. In fact, this email was the first time they had seen the changes in writing. In actuality, the BoC chair has confirmed that these changes were approved and proposed by the BoC chair, the BoC secretaries, the BoD and the Deans, as was confirmed in an email to the entire student body several days after the initial email. It appears that this typo resulted from a simple miscommunication in our student government, but I am still disappointed that it was falsely presented to us as if our representatives on the BoC had voted to approve these changes and that the miscommunication was not corrected sooner. These are some very serious changes and whether or not my BoC representatives were involved in proposing them does affect my opinion on them.

I must give the BoD some credit for taking in feedback and making revisions to the proposed changes in a timely fashion. I thought that the revisions improved the proposed changes although I still find several flaws in them. I still have multiple concerns regarding the phrasing of the proposed changes regardless of their intention. While our current representatives and the administrators involved in the BoC may say that they plan to interpret the bylaws in a specific way, they and their successors will not be held to those promises. I want these bylaws to very clearly state what powers these people have over myself and my peers.

Section 2(a)(iii) has been altered from “registered undergraduates who did not vote in an election for House representative may vote for the off-campus representative” to “only registered undergraduates who are not living on campus the following year may vote for the off-campus representative.” In this change, “on-campus” versus “off-campus” is not defined. Which election do the residents of the house off campus alleys vote in? While not living in the house proper, those individuals picked their living arrangements through

their house’s room picks process. What about other off-campus house members who participated in house room picks? It seems like the goal of this rewording was to better represent a portion of our student body, which is fine, but it’s not entirely clear what that looks like.

Section 2(c) was added to the bylaws and states that “if a BoC member is convicted of an Honor Code violation, that member may be asked to retire at the discretion of the Chairman and the secretaries with the advice of the Dean of Students.” It is my understanding that this statement actually means that the BoC rep will not be “asked” to step down but will be forcibly removed. I personally don’t appreciate sugarcoating in the bylaws under which I reside.

Additionally, “convict[ion]” could be interpreted to include all BoC and CRC convictions. I argue that while a CRC conviction can result from an honor code violation in which an individual knowingly takes advantage of another individual in our community, it can also result from an individual simply violating institute policy. For example, lets say someone unfamiliar with the weapons policy is caught in possession of a weapon they are not allowed to have on campus. For the sake of simplicity, assume their only crime was possession of this weapon. The case is taken to the CRC because a fellow member of the community observed the weapon, was uncomfortable with it, and reported it. They shouldn’t have the weapon, so some form of punishment is reasonable, but that just means they are bad at reading up on institute policy, not that they had any intent to harm anyone in any way. If such an individual is willing and eager to learn from that kind of discretion, I do not believe it is reason to force them to resign from the BoC.

In response to concerns regarding the addition of section 2(c), the BoC chairman has made the point that if a rep convicted of a violation serves on a case where another student is convicted and that case eventually becomes an actual court case, the BoC could be discredited on the reputation of one of it’s members. This can be interpreted as reason to remove anyone convicted of a CRC violation from the BoC, regardless of whether it was a violation of the honor code or institute policy. I don’t disagree that a lawyer might make this point, but I would like to bring your attention to section 3(d)(iii): “A three-fourths (3/4) vote of voting members shall be necessary for any decisions of the Board except case dismissal or the tabling of case, which shall require a simple majority.” There is a reason why a board of our peers and not an individual determines the outcome of a BoC case. It’s because regardless of the precautions taken to ensure that no biased individual has the

power to determine the outcome of a case, we human beings are still opinionated. If six out of seven people (86%) make a decision and one of them has previously been convicted by the CRC, you still have five out of six people (83%) with clean backgrounds who stood by that decision. That decision was not a mistake. Additionally, the Dean of Students reviews all convictions. If there is an actual legal problem that the BoC did not address, the Dean of Students has the opportunity to prevent such a lawsuit from occurring by calling for a reinvestigation of the case and presenting his or her concerns to the new Board. After all of that, if a lawsuit arises then it is either unfounded, or there had to be some other fundamental problem that neither the board which sat the case nor the Dean of Students addressed.

Finally, the Deans of Students is explicitly given the right to “overturn [a] decision” of the BoC in addition to his or her existing right “to call for the reinvestigation... of any case resulting in conviction upon suspicion of bias, incomplete information, or if additional relevant evidence becomes available.” I have faith that most if not all of the representatives that my peers and I elected are reasonable people who would be able to reevaluate a case taking into consideration any

concerns raised by the Deans. If the Deans were to overturn a case without at the very least discussing it with some representative from the BoC, I would be offended on their behalf. Our representatives frequently spend upwards of 9-12 hours hearing a case and thinking about their decision. If the Deans were to change a BoC decision without consulting with those students who invested that time into understanding every nuance of the situation, then our representatives were just told that their time and effort was worthless. The fact is that the Dean of Students is already able to overturn a case regardless of what is codified in the BoC bylaws. I would like the bylaws to emphasize, however, that in such a situation they should be consulting relevant members of the BoC. I also apply this argument to section 3(I) (iv), which basically states the same thing for reinstatement hearings.

As a final thought I encourage you all to ask your local BoC rep for his or her opinion on the addition of 3(b)(v): “If the defendant confesses to the violation in the preliminary hearing and does not have any prior convictions, he or she may avoid a full board hearing and instead opt to have the Chairman and Secretary make the conviction, nullification, and protection decisions. If the Chairman and Secretary agree to this, their decisions will go

directly to the Dean of Students. No protection decision involving leave may be made in this manner. The Chairman and Secretary may refuse this request and send the case to a full board if they find it more appropriate.” Having never served on a BoC case, I wasn’t sure if this change would succeed in eliminating stress on defendants and lessen the workload for the BoC or if it would result in important aspects of cases being glossed over. I’ve now talked to a sizeable group of current and former BoC reps, the majority of who thought that each case deserved to have a full trial to avoid glossing of valuable information. I can’t actually say that the majority of all BoC reps have that opinion though. Again, I think it’s worth discussing with the BoC reps that represent you before you vote.

Even after the revisions, I still find fundamental flaws in the changes. Our current and future representatives and administrators are not held to the intent of these changes, they are held to the wording, and what that means is up for interpretation. I am not comfortable voting for these changes.

Whether or not you are is a different matter, but regardless I appreciate your taking the time to think about your vote before making it.

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# Student Voices: *Speaking out against BoC changes*

**ERIKA DEBENEDICTUS**  
Contributing Writer

Avin Andrade, BoC Chair, recently proposed a set of amendments to the BoC bylaws. The amendments include a number of small changes in wording, the addition of specific guidelines for reinstatement hearings, and changes in the timing of off-campus rep elections. Many of the modifications cause the bylaws to better reflect what the BoC already does.

There is one major exception. The proposed amendments would also add clause 3(v) which allows the Chair and the Secretary to bypass a full-board hearing and convict, nullify, and protect 'minor' cases by themselves. As a BoC rep, I cannot stress strongly enough how bad an idea this is. Under no circumstances should we allow this clause to be added to the BoC bylaws.

If you're unfamiliar with the BoC, it goes something like this: BoC stands for Board of Control, and it's a student-run board that deals with honor code violations. If you suspect that someone has cheated, perhaps referenced a prior year's solution set on an exam or over-collaborated on a set, then you report it to the BoC and we take it from there. A BoC secretary and the BoC chair will assemble the evidence and hold a preliminary hearing with the defendant to take down a statement. If they decide that there is not enough evidence to continue, they can dismiss the case at prelims. If not, then it goes to full board, which means that the chair, the secretary, and a board of seven BoC reps all examine the evidence and interview the defendant. The board then either dismisses or convicts the defendant of an honor code violation. If it's a conviction, then the board makes the 'nullification' and 'protection' decisions, which nullify the unfair advantage gained and protect the Caltech community. The majority of protection decisions are assigning a BoC talk (two members of the board sit down and talk to the defendant about the honor code) or putting the defendant on leave.

In my experience as a BoC rep, there is no such thing as an open-and-shut case. There is certainly such a thing as a difficult case. Cases with multiple defendants, for instance, are usually difficult to disentangle. If two identical sets are turned in, who cheated from whom? It is really difficult to tell sometimes, and very important to get right. It takes many BoC-rep hours of thought and inquiry per case.

Sometimes you see cases that are frustratingly trivial. Bi1 generates a lot of cases like this, the ones where the defendant forgot to cite half a sentence in a three-page paper and is getting BoC'ed for plagiarism. It's incredibly unfortunate, but if they plagiarized, even if it's only one sentence, then it's an honor

code violation and you have to convict them. Just because it's a small violation relative to, say, copying a solution set, it does not mean that we are wasting our time. In these cases, the other BoC reps and I focus on what to say to the defendant during their BoC talk so that we can ensure that we never see them on the wrong side of the BoC table again. Even the trivial cases require a lot of thought. They are not open-and-shut because cases aren't just about 'did they do it?' They are also about 'how can we help them not do it again?'

If proposed clause 3(v) is passed, a BoC Chair and secretary would have the ability to convict a defendant at the preliminary hearing and bypass the full board. Things might go something like this: A TA reports a case of plagiarism. A BoC secretary and chair meet with the defendant. It's obviously plagiarism and the defendant seems intimidated by this whole BoC thing. It's the defendant's first offense, so the Chairman, Secretary, and defendant agree to bypass the board. They convict, nullify, and protect with just two people, sending it off to the deans without ever having the defendant go through the harrowing experience of talking to the full board. Additionally, they don't need to go through the unbelievable hassle of getting the schedules of ten busy Caltech students to mesh for several hours.

Everyone's happy, right? Fewer BoC hours are used. Defendants have their cases finished with less fuss. This is a clause only for easy cases, so it's not like the decision of the full board would be any different.

Without going into too much detail, let me just say that the assumption that the full board would come to the same conclusion is completely false.

A real life example: I got this email from Avin once:

*Hey Erika,*

*I know this is short notice, but one of my reps backed out and I need*

*someone for a case today. It starts at [time] and should not go too long.*

*I'm hoping to be done as early as [time + two hours].*

*Avin*

I get there and it turns out it's not one case, its four cases back-to-back and Avin thinks we're going to go through them 'real fast,' one every thirty minutes. Cases do not take thirty minutes, they take much longer than that.

First case: We are assured that this case is 'real easy' and that it will be done in a 'half hour.'

Result: We didn't even convict the defendant! It took 45 minutes.

Second case: Avin says that 'this one is the easiest of the rest of them.' For the third case we were going to swap out a rep, and Avin told him to arrive in a half hour.

Result: The case did not take a half hour. The case took an hour and half and we were considering leave.

I was talking to Avin recently about the proposed bylaw amendments and brought these up as examples of how many cases are more complicated when there are seven pairs of eyes looking at the evidence rather than two. Avin assured me that he had 'doubts' about both of the cases in question, and would not have used clause 3(v) to bypass a full board. I'm skeptical. I got the very strong impression that Avin thought these cases were trivial, open-and-shut wastes of the board's time. At the very least, these are examples of cases that he, and every overworked BoC chair after him, will be tempted to finish with minimal effort by exercising 3(v), the 'convict at prelims' clause. In the particular example I described, the result would have been disastrous: an innocent defendant would have been convicted and a very serious case would have bypassed the primary mode of function in the BoC. I mention these examples to illustrate the fact that cases are far from black and white when there are more people are involved in the discussion.

Last Monday, Avin sent out an email with more information about the bylaw amendments. He makes the following comment about 3(v):

*This change has two major benefits. First off, this will help the BoC deal with the large number of cases that have been reported. Second, it avoids putting unnecessary stress on a defendant. Going through a BoC hearing can be a very difficult experience. We on the BoC try to minimize the discomfort, but there is only so much we can do.*

I'd like to briefly respond to these points. The present BoC leadership inherited a large backlog of cases from the previous year, and I think this bylaw is motivated by the fact that everyone's tired of BoC'ing. Scheduling is a nightmare and the entire process takes an enormous amount of time. However the solution for an overworked BoC is not to put in less effort on the 'easy' cases. The solution is twofold: get through cases at a pace that doesn't result in backlog, and try to decrease the number of people who cheat, by, say, having BoC reps be more visible in their houses. (Do you know who you're BoC

reps are?) (Hey guys, don't cheat! It solves all the problems!)

In response to the second point, I imagine that there is a fair amount of stress associated with being BoC'ed, but it's not necessarily all bad for the defendant. The experience of being called in to give your testimony to the full board is a powerful one. You face nine of your peers who have been appointed with the power to make disciplinary decisions in order to protect the Caltech honor code. It is an experience that impresses upon defendants the idea that the honor code is not to be taken lightly. Every single conviction, regardless of whether it's for something 'trivial' or something more serious, is a big deal. It is the least the BoC can do to have a full board think about the decision and try to tailor a protection decision so that it will be useful for the defendant.

Furthermore, I think it's very important that the community enforces the honor code. BoC reps have had closed book exams and sets that take all night and non-collab problems that would be much, much easier with collab. We've gone through many of the same things that you, the defendant, are dealing with. Our goal is not to punish; our goal is to encourage defendants to think about and follow the honor code. The experience of being BoC'ed as well as the perspective that nine

Caltech students can bring to the discussion are both important parts of making the BoC an effective organization. Being convicted of an honor code violation would mean much less if all that happens is a 'you're convicted' email from the BoC chair turns up in your inbox and you get a slap on the wrist from the dean.

Proposed BoC bylaw amendment 3(v) is a clause that could result in the conviction of innocent defendants. It is also a mode of functioning that is contrary to the way in which the BoC should enforce the honor code.

Despite rumors to the contrary, BoC reps were not consulted when these amendments were being composed, nor were we informed of their existence before the rest of the student body.

I would encourage you to discuss the proposed changes with your house reps if you want more perspective.

The bylaw amendments will be voted on after Thanksgiving as a single unit.

There are a variety of concerns with the other proposed amendments which I have not discussed because I think that 3(v) is by far the most concerning. None of the other proposed amendments actually need to be passed for the BoC to function.

As such I urge you to vote NO on the entire proposal.



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14. Type of motion
15. Steak sauce
16. Cowboy's sport
17. Nickname of a famous college dropout
20. Work hard
21. Dime
22. Sludge
25. Pool toy
27. Actor Pitt
31. Average
32. Metal band
33. Forests are full of them
34. Facing the plate
36. Alphabet lineup
37. October birthstone
38. Kick out
40. Speed of a wheel, abbr.
42. Follow
45. Middle-earth goons
49. Actor's award
53. It's gone to the \_\_\_
54. Beliefs
56. Today, in Madrid
57. They come in dozens
58. Put inside
59. President Eisenhowers, to friends
60. Chemistry suffix
61. Pulled tight
63. What 17-across is known for
71. Language of Baku
72. New York canal
73. Vegas's neighbor
74. Power company
75. "Dangit!"
76. Say no to

## DOWN

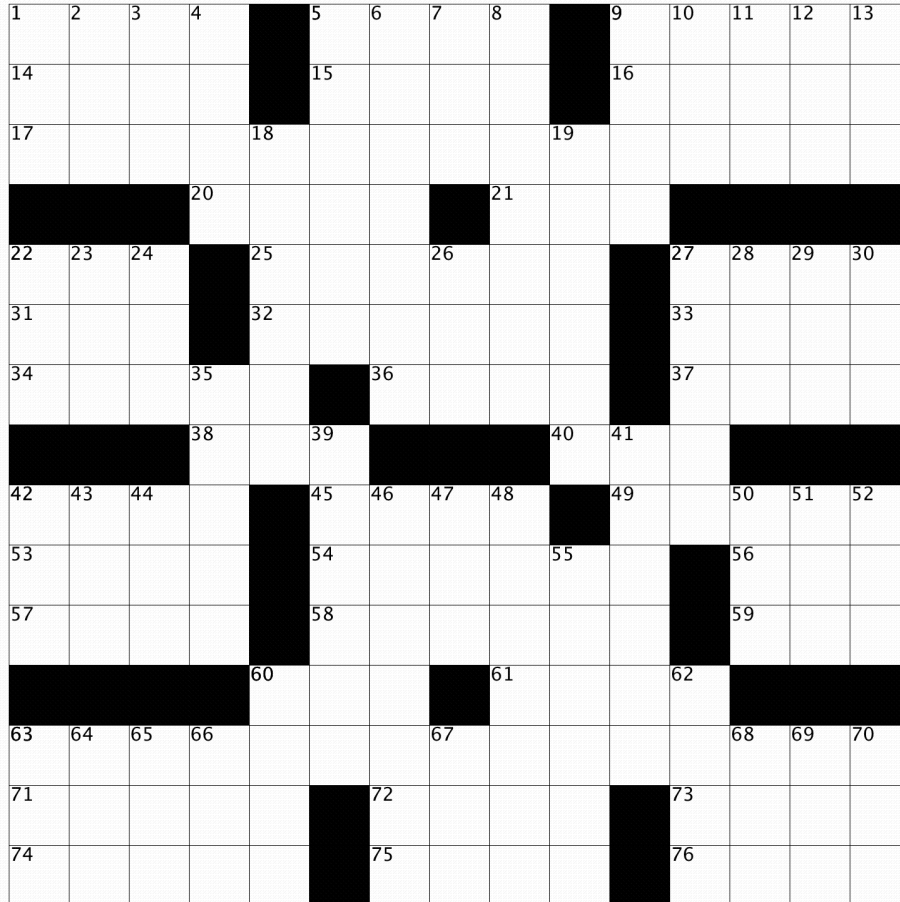
1. Every single one
2. Pigeon's call
3. Place for people in critical condition, abbr.
4. Just \_\_\_\_, Nike prerogative
5. Messiah
6. Unit of charge
7. There isn't one in team
8. Annoyed
9. Word before age or man
10. Quixote or Cheadle
11. Quirky
12. Zodiac sign
13. Bart to Homer
18. "Moonlight \_\_\_\_\_", piece by Beethoven

## 19. Move unsteadily

22. Measure of college success, abbr.
23. Grain
24. Sphere
26. Video game material sold online, abbr.
27. Economic opposite of busts
28. "That's a \_\_\_"
29. Prelude to a nickname
30. Internet option, abbr.
35. Dark hole
39. Paying attention to
41. Coffee alternative
42. Poetic tribute
43. Swamp
44. \_\_\_ on, goad
46. One who backs out of promises

## 47. Caltech major

47. Caltech major focused on neurons, abbr.
48. Make sure it is done
50. Where 17-across is from, slangily
51. Perfect
52. Bread option
55. They're made in a market
60. City in Oklahoma
62. Poop
63. Goes with cheese
64. MI airport
65. Barbie's lover
66. Anger
67. "Are you a man \_\_\_ mouse?"
68. Look at
69. Small hotel
70. Shy



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*Clockwise from top left. Grace Leishman does a rain dance or pretends to be a bird. Not sure which; They're all birds, now; Paige Logan takes a shot. Poor USC girl thinks she can block it; Marlyn Moore shoots a 3-pointer from waaaaaay downtown. Actually, it kind of looks like she's doing magic; Sarah Wright falls from height while all the other players look up in awe; Rachel Hess attempts a layup. Giant pandas poop over 12 times a day.*

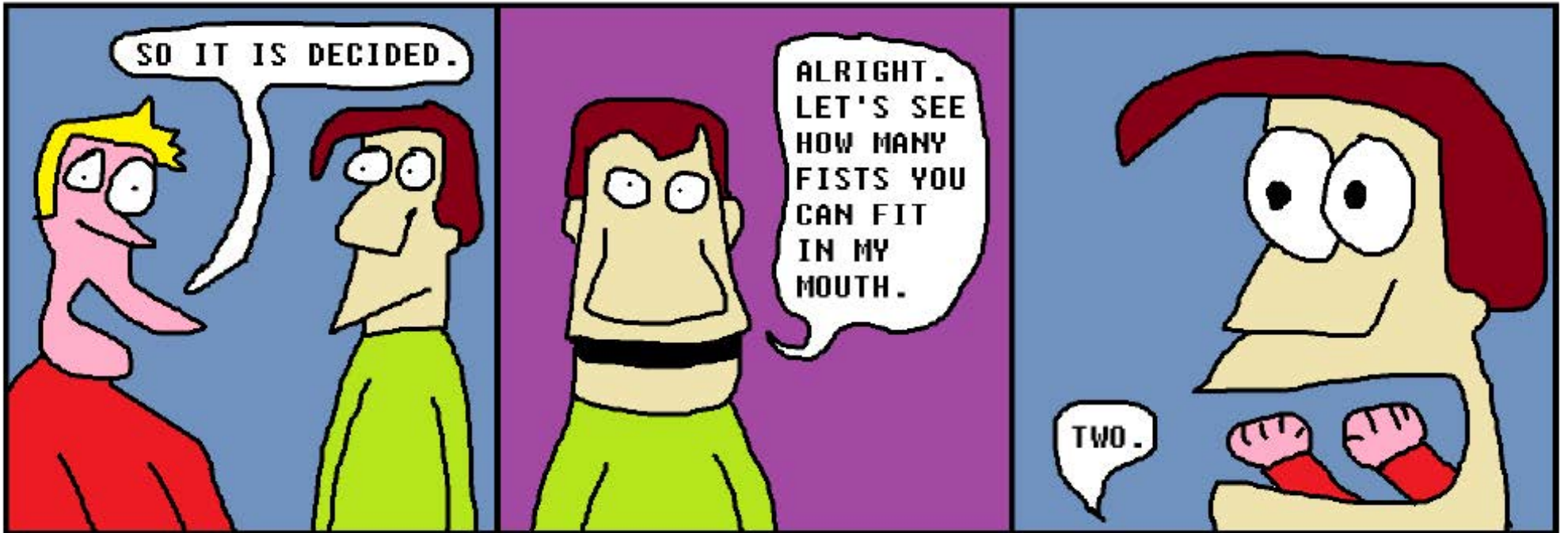
*These pictures were taken at the Caltech women's basketball scrimmage versus the USC club team. They played three 15 minute periods, losing the first, tying the second, and losing the third. Did you know the sports editor in 2008 was named Yang Yang. After that was Rick Paul. That means I'm the first sports editor in recent memory that doesn't have two first names instead of a first and last name. Unless you count Yang as a last name. Never trust a man with two first names. Ever.*

*-Amol Kamat*

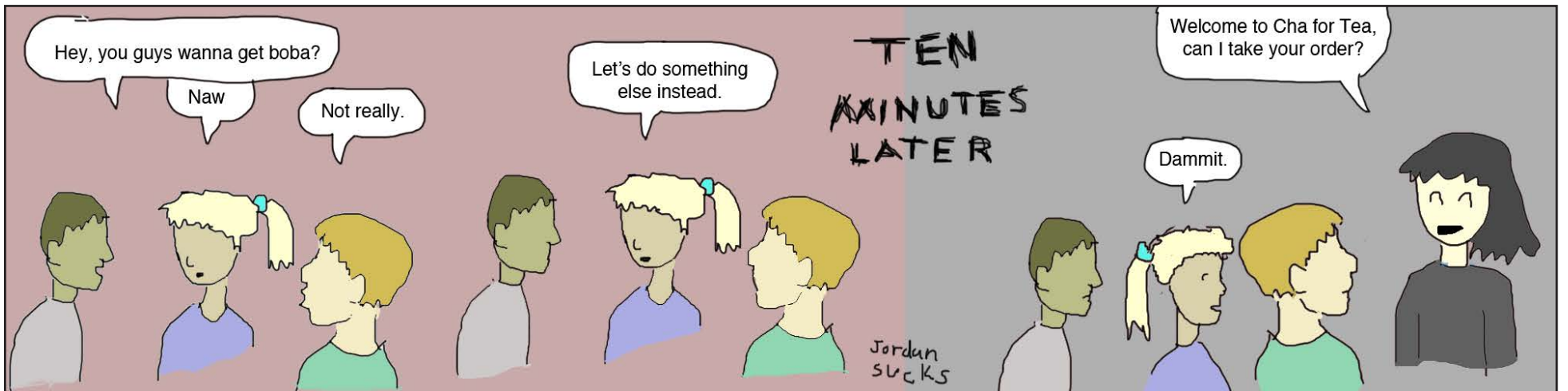


HAPPY THANKSGIVING

BY GAIL BRENISS



## Acquired Taste



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