



## Caltech Rover Team shoots for the Moon

**MOYA CHEN**  
Contributing Writer

For a dedicated team of Caltech students, creating a rover to explore the moon, Mars, and more is an entirely terrestrial affair.

Sponsored by NASA and the National Institute of Aerospace, the RASCAL Exploration Robo-Ops Student Challenge is a competition for teams of university students to design and build a planetary rover. At the ROBO-OPS Forum in May at NASA's Johnson Space Center, these rovers will demonstrate their abilities in a series of competitive tasks on a planetary analog environment.

The rovers will have to traverse model lunar craters, sand dunes, as well as a variety of other geological features, all the while picking up rock samples for analysis. In order to simulate the conditions of an actual rover mission, each rover will be controlled remotely from the teams' home university campuses, utilizing commercial broadband wireless cards to communicate between Houston and the rovers' respective mission controls.

This year, for the first time ever, a group from Caltech is competing in the challenge. The

team, going by the name "Caltech Rover Team" or "CRT" for short, has already seen successes despite its infancy. After submitting a

chance to learn. "I have hardly any engineering experience, and to lead a team of students, many of whom have participated in FIRST

participate in this competition and people have so far been great to me." With guidance from advisors Professor Joel Burdick and JPL's

parts," said Lo, "We are actually all having fun together and learning at the same time."

In addition to building the rover, teams are tasked with engaging the public with their progress. As part of the team's outreach program, members of CRT will be demoing their rover to a group of approximately 200 robotics students of the Pasadena Educational Foundation on April 10th. Additionally, they will be taking their robot to local elementary, middle, and high schools in order to expose students to space exploration and robot design.

In order to garner interest within the Caltech community itself, CRT advisor Issa Nesnas will also be giving a public lecture entitled "Robotic Exploration of Planetary Bodies" on Friday, April 13th at 5pm in Cahill.

Even with the team's impressive progress, there is still quite a bit of work left before the May deadline. "We could always use more public support in our outreach program," noted one member of the Rover Team. "If more people could 'like' our Facebook page (facebook.com/CaltechRoverTeam) or watch our videos on Youtube (youtube.com/user/CaltechRoverTeam), that would be really helpful."



The members of CRT take a brief respite from designing their rover and strike a pose. From left to right: Ellen Price, Jaime Nagel, Daniel Lo, Alejandro Chavarria, Hima Gudipati, Ingrid Fiedler, Justin Koch, Russell Newman, Jeffrey Picard, and Bryan He. - crt.caltech.edu

project plan in December, CRT was one of eight qualifying teams selected to receive a \$10,000 stipend to help offset the costs of rover production and travel.

For sophomore Daniel Lo, the leader of CRT, working on the rover has been a good

competitions before, and almost all of whom in their own ways know much more how to go about putting the rover together than myself, is pretty challenging.... I remember one of the first meetings when I had to ask someone next to me what it means to CAD something. But this learning experience is what I wanted when I decided to

Issa Nesnas, the team has already made significant progress.

In a video posted to CRT's official Youtube page, the team's rover can be seen driving around and accurately touching a series of cups. Working on the rover has been a highly rewarding experience. "I won't forget the times we stayed past 11pm in the ME shop milling

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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 Sam Barnett – links to full stories available at [barnett.caltech.edu/news](http://barnett.caltech.edu/news)

<b>Scan for Alzheimer's</b>	<b>\$ 1,600</b> dose of Amyvid enables doctors to detect early-stage disease	[WSJ]
<b>New Post-9/11 GI Bill</b>	<b>416,000</b> veterans enrolled this spring – more funding, flexibility	[CNN]
<b>Pakistan-India diplomacy</b>	<b>7</b> years since a similar visit – Pakistani president travels to India	[BBC]
<b>Power transition in Mali</b>	<b>40</b> days to hold new elections – president and coup leader both agree	[AFP]
<b>Peruvian mine collapse</b>	<b>9</b> miners trapped – receiving necessities via a tube – rescue underway	[BBC]
<b>Pakistani avalanche</b>	<b>139</b> people trapped under 70 feet of snow – rescuers responding	[CNN]
<b>Nigerian Easter bombing</b>	<b>25</b> worshippers killed – more attacks against Christians in Nigeria	[CNN]

## 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)*

### The California Tech

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## Write articles for the Tech

**get paid up to \$30**

## ASCIT Minutes

April 2, 2012 by Laura Santoso

Officer's present: Chris Hallacy, Pushpa Neppala, Laura Conwill, Christian Rivas, Diego Caporale, Mario Zubia, Prakriti Gaba, Laura Santoso

- Funding request of \$500 for Innworks Camp Approved
- Currently considering switching *Tech* editor positions to appointment rather than election

### President's Report

1. Nominations for ASCIT president, ARC chair, director of operations, treasurer, and social director will be the third week of term.
2. As of now, the bylaws committee has decided that students cannot read applications or vote on specific cases in deciding freshman admissions.
3. Interim chairs: Pushpa Neppala is the new interim ARC chair. Prakriti is back from study abroad and Michelle Tang is done with her interim term.

### Officer's Reports

1. ARC (Pushpa)
  - a. Core: The faculty voted yes to a new core for the 2013 freshmen. Major changes: Ma2 and Ph2 will no longer be part of core.
  - b. SFC: The ARC is thinking about changing it from spring term to winter term
2. IHC (LC)
  - a. Rotation: Major changes include that the first rotation meal will be dinner on the Thursday BEFORE classes begin, no lunches, and added house desserts/study breaks.
  - c. A committee with student representatives has been formed to interview a new Residential Life Coordinator.
3. Director of Operations (Diego)
  - c. Club fair will be Friday, April 13 during Prefrosh weekend.
4. Treasurer (Mario)
  - b. Clubs: If clubs want funding for this term, there is a new form.
5. Social Director (Prakriti)
  - a. Intercollegiate party: Will be April 20 with Harvey Mudd and Pitzer College. There will be 2 DJs and dance floors, one by Winnett and one in the RF courtyard. There will likely only be low proof liquor (beer) provided, with two bars and six bartenders. The total party budget is \$7-9k.
  - b. Other ASCIT event: Will possibly do a farmer's market.
  - c. Movie Night: There will be an ASCIT movie night May 11 (The Avengers).
6. Secretary (Laura)
  - a. Olive Walk Board: Updated with new IHC pictures.
  - b. ASCIT Door Plaques: In the process of ordering door plaques for ASCIT BoD positions

# A brief explanation of the “Caltech Appositive”

**ERIKA DEBENEDICTIS**  
Contributing Writer

For Caltech undergrads, email is the ubiquitous medium for everything from buying used books to figuring out who gets which cabinet in the kitchen down the hall.

When I first started receiving emails from other undergrads, something became obvious: Caltech undergrads sign their emails in a very strange way. When Techers send emails- to each other and especially to house mailing lists- they insert a phrase in quotation marks into the middle of their na“like this”me.

When I was a frosh, I was confused by this. I remember asking a friend, Jamie, for a recipe she’d made for one of Blacker’s rotation desserts. It resulted in one of the first emails I got with this weird signage:

## Chocolate chip banana bread

*Recipe attached.*

*Jam”actually remembered”ie*

And the next day there was another one, this time on the house mailing list:

## [Mole-current] Anvil?

*Does anyone lay claim to the one in the middle of the courtyard?*

*Tom “because I actually want it” Harris*

These two emails use the signature phrase in different ways. In Jamie’s email, the phrase isn’t necessary, but gives the email a friendlier, more personal feel than simply the terse “Recipe attached.” The same sentiment could be added either in the body of the email (“Hey, I actually remembered to send you this recipe. Voila.”) or as a postscript (“P.S. Would ya believe it- I actually remembered. Look at that.”), but both would require more words and unnecessarily complicated sentence structure.

In Tom’s email, the phrase clarifies the context of the email, distinguishing it from the alternative “Does anyone want <insert fire hazard>, because housing’s gonna steal it from us,” a type of email that is also quite common.

It also might attract collaborators: if you want to play with an anvil, go find Tom.

Not all emails contain this type of signature, but when they do they invariably serve to make the email more engaging, funnier, or more informative.

It’s not quite a postscript. In fact, none of the phrases make sense if you write them as a P.S. after the email ends. They are designed to be read with the rest of the message, rather than as a separate tag-on phrase.

The best way to describe the phrases grammatically is as an

appositive phrase to the rest of the email. Apposition is a grammatical construction in which two elements are placed side by side, with one element serving to define or modify the other (Wikipedia). In this case, the body of the email is in apposition with the signature phrase.

I looked back through my email and found a number of examples of this structure. There are two primary functions.

## 1. A humorous reflection on the message content.

For instance, this Blue Mechanical (code word for ‘lost’) Interhouse email:

### [Mole-current] Blue Mechanical Big-Ass Projector

*Does anyone know what happened to the enormous projector that used to be in the metal box outside the Cannes bathroom? We’ve checked Upper Lift, Lower Lift, and other assorted places, and have no idea where it went. If you know please let me or Darcy know so that we can start painting the Lounge Mural for Interhove.*

*Mari”how can something that heavy just disappear?”sea*

This is a sentence that wouldn’t fit in the body of the text. Yet its inclusion makes the message much more compelling.

If someone trips over an enormous projector (not unreasonable given the state of things during Interhouse construction), then they’re far more likely to remember someone was looking for it. It makes the message more effective.

Another example: after a very long series of emails about where people can pick up tee-shirts and hoodies with the Blacker logo (Blackerwear)...

### [Mole-current] BLACKERWEEAAAAR

*Moving back to my room!*

*~An”maybe I should make a twitter”na Ivanova*

This appositive is apologetic about the fact that the Blackerware thread has been spamming the email list. The email has been transformed from a purely informational message to a critique on the absurdity of trying to distribute a hundred hoodies. Kudos to Anna.

You wrote my favorite appositive.

Cleanup is another major category of house emails. After entertaining the prefrosh with the potato cannon,

### [Mole-current] Our Courtyard looks like shit

*Hey everyone,*

*All the projects and fun activities at rotation are great, but we seriously need to clean up after ourselves.*

*The lounge still has flipped couches, there are rotting potato parts around, there are random bits of black plastic scattered around, and tools around... All of these are remnants of fun, but spend the extra five minutes a day to make our courtyard look decent in front of the prefrosh.*

*Ro”even though I associate rotting potato bits with good times”bb*

Instead of someone expressing his irritation at a messy courtyard, Robb humorously points out all the reasons why we need to clean up.

Similarly, other types of informational emails use the postscript to give the message a personal feel.

These include when seniors are selling books (Cat”how do people figure out how to charge for books?!?”hy ), unused food ingredients (-Suz”will someday learn how to cook”anna), or everything else (-Ar”I’m only moving what fits in the car”ia).

## 2. An informal description of the point of the message.

Sometimes people want to direct their reader’s attention to their primary message. After a long Interhouse email, Matt concludes with:

### [Mole-current] Need Someone to be responsible for the lounge for Big I

[Page-worth of Interhove-construction related things.]

*It would be fantastic if someone wanted to adopt the interior decorations and could do it for cheap. If you are interested in working on this, please email me.*

*-Matthew Hey”if someone doesn’t take over the lounge, someone is going to get shot”deman*

Now we know that the preceding long lists of items related to Interhouse construction are of secondary importance to the absolute necessity of the lounge.

After making creme brûlée for the prefrosh, Liz was looking for help cleaning up:

### [Mole-current] Cleaning up the Creme Brulee

*Hey guys, so, cleaning 27 ramekins goes a LOT faster if we parallelize.*

*If people help me clean up tonight (before it hardens and becomes impossible), then I’ll set up another creme brulee session next week for you upperclassmen.*

*-L”bribery!”iz D*

Instead of expecting people to read a full-three-line email, she summarized the point with one word, a word interesting enough that people will probably go back and figure out who is being bribed and why she’s so happy about it.

Where did this practice come from? It seems that it predates email and may have evolved from putting a nickname in quotation marks.

In the 10/24/86 edition of the Tech, the Blacker Inside World article names 13 moles with

nicknames in quotations and the writer signs his name as “-Arex “Wei,” supposedly because he was nickname-less.

Similarly, in the 5/30/1986 edition of the tech the Dabney Inside World writer signs his name as “-Random “Tuesday” Weld.” According to alums, including relevant nicknames in quotations started to appear in email around 2000.

The exact timeline of the transition from nicknames to nickname-phrases to non-nickname-phrases is unclear, and may not be an evolution that is unique to Caltech.

However, it seems reasonable to assume that the prevalence of this practice is facilitated by the quirky and tradition-heavy culture of the Caltech house system and is probably uncommon elsewhere.

The existence of this construct demonstrates a level of mastery over the email medium.

The email appositive acts very much like a hand-written letter postscript: it is a construct that fits within the writing medium and allows the author more freedom to create an effective message.

The email appositive phrase gives the writer the opportunity to include a pithy, creative statement that turns an impersonal, informational email into a dynamic message.

People tend to despair about the impersonal nature of email.

The Caltech appositive is a clever way to add warmth back into a message.

-Eri”now you just have to try it”ka

# Totem is still looking for submissions!

All members of the Caltech community

are encouraged to submit their art,

photography, poetry, prose, etc. to

[totem@caltech.edu](mailto:totem@caltech.edu) by April 7th for a

chance to be featured in this year’s

magazine! When emailing be sure to

include your name (or anonymous), title of

the piece, and medium (pencil, digital

photography, etc.) For photography, >200dpi

resolution & .tiff format preferred. If you

have any questions or comments, email

them to [totem@caltech.edu](mailto:totem@caltech.edu)

# Man versus Mannion: A tasteful competition

**CORWIN SHIU**  
Is not Mannion

La Grande Orange Cafe provides great ambiance but falls short on putting a twist on familiar classics. The portions are very reasonably sized and are affordable for a night out. The inside was very well decorated and warmly lit. The heavy wood tables, ornamented lamps, and the metro passing every so often gave the restaurant a romantic train station terminal feel. However, the restaurant was noticeably loud, and the muffled music only contributed to the noise.

We sampled a bit from all over the menu. My expectations were high after munching on the shredded kale and quinoa salad. The umami taste of parmesan contrasted perfectly with the tartness of the vinaigrette. The kale provided very slight bitterness that mediated the strength of the two flavors and also provided a nice crunchy texture to the dish. The deviled eggs were the high point of plating of the night. The eggs sat on a specially made wood block and were topped off with diced chives, bacon, and a sprinkle of cayenne pepper. The small kick in the stuffing accented the rest of the bold flavors. Overall, it was a very well done classic.

The fries were fried to an orange that resembled sweet potato fries. Unfortunately because they were skinny like regular fries, they were overdone. The mac and cheese also fell flat. The cheese was runnier than I would have liked it and was also on the light side.

Edna's Dixie Chicken took a while to figure out. We were served two pieces of fried chicken with a sugar glazed cinnamon roll on top of mashed potatoes and green beans. The chicken had very little flavor and was easily overpowered even by the not-so-sweet cinnamon roll. The mashed potatoes were very bland and their chunkiness did not give enough of a contrast to the other three's crunchy texture.

The green beans were, well, green beans.

The first thing I noticed about the shortrib taco platter was the very generous portion. The plate was filled to the brim and the waitress even brought us an additional stack of warm soft tacos. The shortribs were incredibly tender; they fell apart with my fork. The meat was very flavorful on its own, but the kale that accompanied the dish masked its flavor. The salsa could have also used some heat but complimented the ingredients



Edna's Dixie Chicken at La Grande Orange Cafe combines sweet and savory with two pieces of chicken, mashed potatoes, and a cinnamon roll.

well. Otherwise, it was a very good dish.

For dessert, we sampled red velvet cake and key lime pie. The red velvet was the best I've ever had. The cake was very moist and flavorful and the frosting was very creamy and just the right level of sweetness. The key lime pie had too much cream and the custard was so tart point that it masked the taste of the graham cracker.

While many dishes were well done classics, they weren't particularly inspiring. Le Grande Orange Cafe is great for a casual date place if you and your date are just looking for something reasonably priced with familiar foods and ingredients.

**TOM MANNION**  
Is Mannion

This restaurant was selected because it offers a "buy one entrée for full price, get a second for five dollars" deal on Monday and Tuesday evenings. On these days, two college students can eat dinner for ten to fifteen dollars a head.

When I entered the restaurant my first problem was, where the heck do I go? The entrance is very nondescript with no host/hostess

in sight and no signage. Luckily, we were greeted in just a minute or two and taken to a table. The restaurant itself is very loud and has arching, cavernous ceilings.

Each table has its own pendant lighting, providing some of the best lighting I have seen in a restaurant.

Throughout the dinner service, the wait staff was friendly, quick and accurate. We received our first course in 6 minutes and had all of our food within 20 minutes.

If we had left then, it would have been an amazingly quick, yet comfortable meal. The time between dessert ordering and signing the check most likely exceeded an extra half-hour.

Now to the food. The first thing you ask yourself, upon looking around the dining room, is what draws all of the customers to this eatery.

I have no idea—this place fell flat on the food front. On a strongly positive note, I'd advise ordering the lemonade (no it is not on the menu). It is a perfect combination of sweet and sour with a leaning towards tart, with the right amount of pulp.

We started with a tray of deviled eggs with bacon. The eggs were quite sweet, too much sweet pickle relish and there was an obnoxious excess of mustard. A burning sensation was left on the back-top of the palate, most likely from a good, but over-used paprika and the bacon on top was so crunchy that it was almost painful to bite. If I order an egg dish, I want to have at least a small semblance of egg taste somewhere. Unlike the lack of balance of salt, sour, sweet and bitter in the eggs, the kale and quinoa salad was brilliant. Great texture, while not enough quinoa, this tabouleh-like salad included kale, cheese, tomatoes, grapes, roasted pumpkin seeds, vinegar and nuts.

The side of macaroni and cheese was just plain wrong.

The cheese sauce bore no resemblance to any béchamel sauce base and it was excessively thin and runny. The ribbed elbow pasta was too firm. The cheese was so plain and mild it needed to be seasoned with salt (the cook's job). The texture was slimy and left an oily coating in my mouth.

This side dish should not have been allowed to be served.

While I am on sides, I always test restaurant fries. These fries were

very skinny and slightly sweet, way too crunchy with no unique potato inner, just solid crunch—a potato chip in stick form.

We shared entrees. The Edna's Dixie Chicken was listed as crispy picnic style chicken. The pieces were boneless breasts. The soggy breading was only on top of the chicken, and to enhance the textural problems, the "crispy" chicken was served on top of a pile of mashed potatoes, meaning any remaining outer coating slid off of the chicken.

The chicken itself was remarkably bland and again, lacked adequate seasoning.

Why the heck did they put a cinnamon roll on the same plate? Interesting try, but no match at all. Go to Roscoe's if you want this type of flavor combo.

The next entrée was a short rib taco (it had been recommended). The braised beef short ribs were in their own gravy, the sauce was a sort of roasted pepper and tomato sauce.

The flavorings in the meat and sauce seemed to share no connecting elements.

I found the meat flavor overbearing, especially with what were quite nice handmade tortillas. The guacamole needed more lemon. Spend your money at a taco stand elsewhere, unless you have a thing for strange \$20 tacos.

The red velvet cake is definitely not your grandmother's. It looked more like a colorful piece of toast than a slice of cake. The cheese icing was chewy.

The key lime pie was pretty good. Just a bit too much meringue, but it looked like pie and tasted good.

Chamomile tea at the end was a hit: loose leaf with great flavor, really nice.

So all in all a great facility with careful thought to lighting, comfortable chairs, heavy duty cutlery, sturdy pint glasses and pretty good service.

I would recommend it for a cup of tea or lemonade, but skip the food.

## Supreme Court ruling is reprehensible

**PO KU**  
Alumnus

There have been a few Supreme Court cases in the past several years that I personally do not agree with, but one last week particularly disturbs me. It is the case of Florence vs. Board of Chosen Freeholders of County of Burlington and in a 5-4 ruling it upholds the right for jailers to invasively strip search anyone arrested no matter for how minor an offense they have committed. Albert Florence was subjected to not one but two strip searches

following an arrest that should have never been made in the first place. Due to an error, the state trooper arrested Florence after his wife was pulled over for a routine traffic stop in March 2005 because records showed that Florence had not paid a fine.

The fine had in fact been paid and failure to pay a fine is not a crime in New Jersey. Because Florence is African American, this could be a case of possible racial discrimination, but Florence did not allege this. He was first searched in Burlington County Jail. He had not received a hearing six days later and was transferred to another county jail in Newark, where he was

strip-searched again. The majority opinion written by Justice Anthony Kennedy cited three reasons to justify the searches: detecting lice and contagious infections, looking for tattoos and other evidence of gang membership and preventing smuggling of drugs and weapons.

The dissenting opinion argued by Justice Stephen Breyer said strip searches improperly subject people to serious invasions of their personal privacy.

He said they should have reasonable suspicion that someone may be hiding something before conducting a strip search. If you doubt that this could happen to you I offer you this personal anecdote.

One of my friends who was a math major here found himself one night staring into a closed antiques store in Pasadena thinking about some math problem.

Perhaps it was his unkempt appearance (he had an afro and was likely unshaven), but the police picked him up and strip searched him.

Makes for a funny story, but I personally would be very offended if this happened to me. Since when is it a crime to window-shop at night? This decision just confirms my suspicion that our country is increasingly becoming a police state where our individual rights are being taken away piece by piece.

According to Kennedy, people arrested for minor offenses could turn out to be "the most devious and dangerous criminals."

His example was the Oklahoma City bomber Timothy McVeigh who was initially stopped by a state trooper who noticed McVeigh was driving without a license plate.

I suppose after September 11, 2001, we are all just suspected terrorists. I wonder when the TSA will start subjecting everyone to blanket strip searches. Seems like an excellent idea. Too bad I forgot my pasties and G string at home.

# Response to critique of undergrad admissions

**PROF. KIM C. BORDER**  
Chair of Freshman  
Admissions Committee

**JARRID J. WHITNEY**  
Director of Undergraduate  
Admissions

Last week the Tech ran an editorial that suggested that college admissions processes in general, and perhaps Caltech's in particular, were broken and needed to be fixed somehow. Since we are responsible for admissions at Caltech, and the fact that Prefrosh Weekend for admitted students is April 12-14, we thought it would be appropriate to take this opportunity to talk about how Caltech chooses its freshmen.

Caltech is unique among major colleges and universities in that there is a standing committee of the faculty devoted to supporting the undergraduate admissions selection process. The committee's guiding principle in admissions is to admit students who will succeed and thrive here, and then go on to be leaders in their chosen areas. We look for signs that not only prospective students can do the work, but that they want to be here and add in meaningful ways to the overall Caltech community.

Given our rigorous curriculum and focus on STEM (science, technology, engineering, and mathematics), that means that we are looking for students who have demonstrated not only their ability to do well in STEM, but who have also clearly articulated their interest and passion for these specific academic areas. How do we do this? Certainly standardized test scores are used as one indicator of potential success, simply because they are standardized. Given our highly competitive applicant pool, the SAT/ACT median scores of our admits are incredibly high, but we still take a holistic approach to evaluating our candidates. We critically read letters from high school counselors, teachers, and research mentors. We evaluate each student's high school curriculum and grade trends. We read their essays on science and why they are passionate about STEM. We look at extracurricular activities, both STEM-related and not.

We look for evidence of innovation, creativity and drive, and the ability to get things done. We look for people who can live under our honor system. We constantly ask the faculty on the committee whom they would want in their labs and classrooms.

"Merit" is not measured by standardized scores and GPAs alone. If it were, then there would be no need for an admissions committee, and we could save a lot of time that was spent reading thousands of applications.

Currently, we are in a very fortunate position in that we make admissions decisions without regard to financial need. In fact, only a small handful of US colleges can claim to be need-blind in

admissions and meet 100% of demonstrated need like we do.

The editorial suggested that admissions policies need to change to recognize "a student's resources and how he uses them, as well as the degree to which a student has accomplished more than his circumstances might have allowed." We are pleased to tell you that in fact this is one of the things that we do indeed consider. We know that the opportunities for a student from a rural community may not be the same as those for a student from an urban environment with

several local colleges. We recognize that students with unemployed parents may have to spend more of their time working and less on the robotics team. We realize that the educational background of an applicant's parents may influence the advice and encouragement that he or she receives in this process. We discuss these points as part of our deliberations. It is, as the editorial suggests, "a daunting task," but we do our best to look at each student's personal and community context before making a final decision. We would like to also stress that

the administration and the faculty are committed to having a diverse and well-qualified student body, and we direct a significant effort to finding and recruiting students to that end.

We are working hard to make this an appealing and welcoming place for all students, and especially those who have been historically underrepresented in STEM fields. We end by assuring you that each and every one of you is here because you earned and deserved your spot at Caltech. Each of you brought something special to the table, and

the common thread in all of you is your passion for being a part of the world's finest STEM educational program. So as you meet the Class of 2016 during Prefrosh Weekend, take this opportunity to let them know how special they are, that we looked at more than just the wonderful numbers they presented to the admissions committee, and that we feel they would thrive in our community.

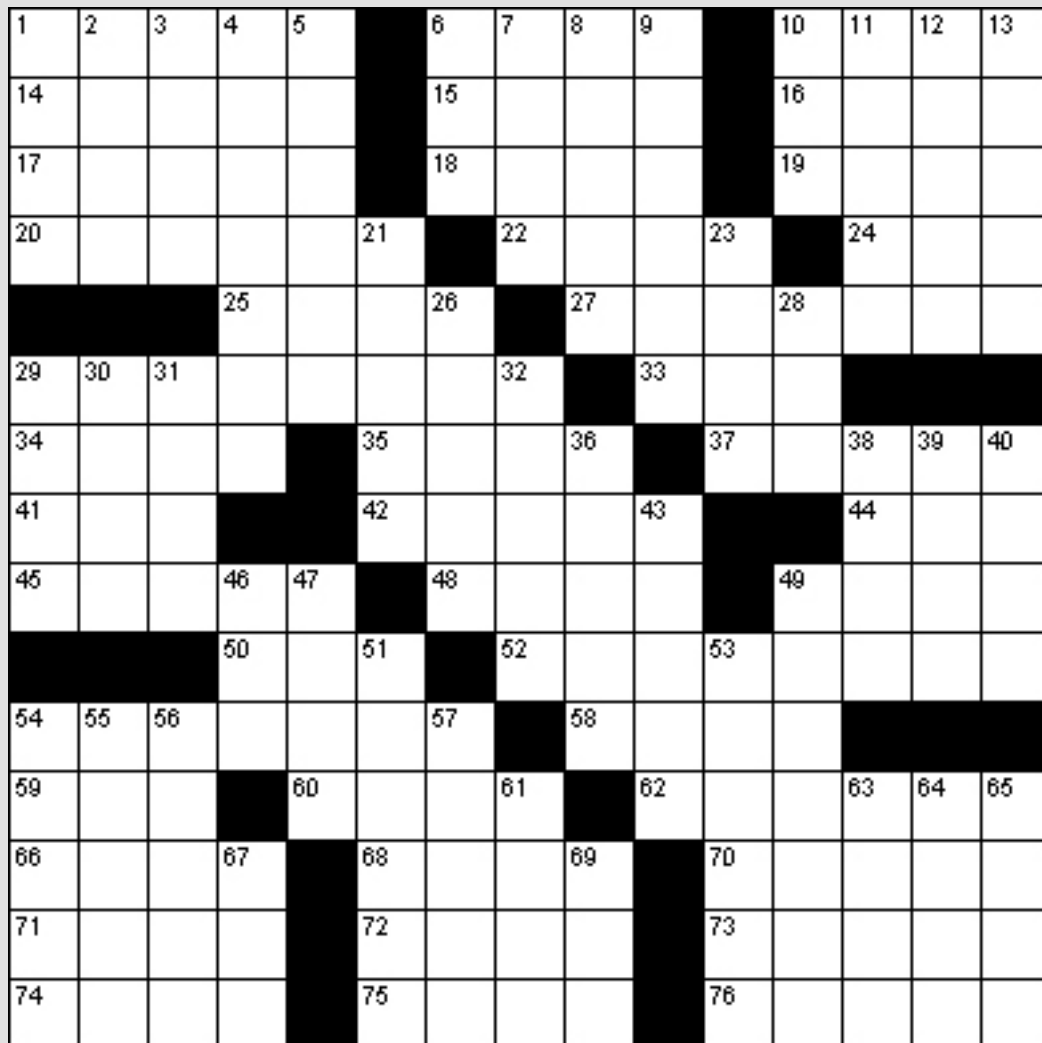
This is your opportunity to promote all that is best about what Caltech can offer these amazing newly admitted students!



KEEP  
CALM  
AND  
DEBATE  
ON

[debate.caltech.edu](http://debate.caltech.edu)

# Today's Puzzle: Crossword



[<http://www.puzzlechoice.com/>]

## Across

1. Poplar tree
6. Louts
10. Yore
14. Left-hand page
15. Flutter
16. Singing voice
17. Construct
18. Vertical surface of a cliff
19. Predatory animal
20. Mend
22. Furniture item
24. Large
25. Syndicate
27. Climatic zone
29. East of occidental
33. Body of water
34. Beneficial
35. Musical work
37. Mops
41. Rodent
42. Right-hand page
44. Flying insect
45. Decree
48. Stead
49. Food
50. Tatter
52. Debris
54. Ancient paper
58. Sediment
59. In the past
60. Small cut
62. Rogue
66. Roofing slab
68. Hard work
70. Military blockade
71. Tribe
72. Against
73. Of time long past
74. Group of animals
75. Used in a woodwind instrument
76. Requirements

## Down

1. Affirm
2. Withered
3. Homework, in short
4. Got away
5. Idea
6. Not on
7. Unfortunately
8. Aspect
9. Lances
10. Friend
11. Legal excuse
12. Unemotional person
13. Gripping device
21. Part of a helicopter
23. Digits
26. Part of a coat
28. Animal foot
29. Fiend
30. Horse description
31. Scintilla
32. Coherent
36. Alloy of iron and carbon
38. Assist in a crime
39. Boyfriend
40. Becomes solid
43. On the outside
46. Weep
47. Mountain lake
49. Projectile
51. Stringed instrument
53. Rationality
54. Small area of ground
55. Nimble
56. Cold region
57. Griddlecake
61. Small hawk
63. Yield
64. Matured
65. Optical device
67. Conclusion
69. Cover

## Salty Suites!



Caltech Folk Music Society presents Salty Suites on Saturday, April 21 in Beckman Institute Auditorium at 8PM.

Spine tingling bluegrass style harmonies, hot mandolin & vocals from 19-year-old Scott Gates, outstanding vocals & guitar from Chelsea Williams, also upright bass & fiddle! A spirited band that is fun to watch. See [www.folkmusic.caltech.edu](http://www.folkmusic.caltech.edu) or contact [folkmusic@caltech.edu](mailto:folkmusic@caltech.edu)

\$5 tickets for students at Caltech Ticket Office or at the door

## New 3-step process for exiting students

Caltech graduating students are expected to participate in an exit interview process with the Bursar's staff before commencement. This process is designed to inform students of any Bursar's account balance, update information, and address questions students may have regarding their Bursar's student accounts.

Also, if you have received a student loan while at Caltech, this process informs students of their rights and responsibilities, furnishes loan and other fiscal data, and notifies students of federal regulations where applicable.

The new 3 Step Online Exit Process:

1. Receive your Invitation to Exit via Caltech e-mail on April 30

2. Complete the:

- a) Exit Compliance Form attached in the e-mail notification,
- b.) and, if you have a loan, complete the ACS Loan and Direct Loan Online Exit Interviews on the link provided in the Invitation to Exit e-mail.

3. Return all forms to the Bursar's Office :

- a) Completed Exit Compliance Form (All Students)
- b) Completion certificate for ACS Online Exit (If you have a Perkins or Institute Loan)
- c) Completion certificate for Direct Lending Online Exit (If you have a Stafford Loan)

Please note that if you have not received an invitation to exit by May 4th, please visit the Bursar's Office or contact us by e-mail at [bursar@caltech.edu](mailto:bursar@caltech.edu) or by telephone at 626-395-2988. Also note that transcripts and diplomas will remain on hold until the Bursar's account balance is paid in full. Finally, if you have any questions about the Exit process or forms please contact the Bursar's Office.

Ruth Whitson, Bursar

# Caltech honors student-athletes with barbeque, barbeque

**AMOL KAMAT**  
Sports Editor

Today begins Division III week, in which member schools celebrate the accomplishments of their student-athletes. While our school may be lacking in athletic prowess, our athletes can certainly feel as accomplished as those at other schools, if not more so. For only three units a term, our student-athletes play and practice their hearts out every day, only to return to the normal rigors of life at Caltech. Compared to other schools, it may seem like few accommodations are made for our athletes (although I'm sure we've all seen a few athletes try to use their sport as an excuse to not do work), but they continue to work hard to represent Caltech to the best of their abilities, both on and off the field.

To recognize our athletes, Caltech held a pair of barbeques. The first, on Friday night, was Hawaiian themed, because nothing says student-athlete appreciation like well-cooked chicken and pineapples. They also provided inflatable balls and "thundersticks," as if Caltech students needed more excuses to be loud and obnoxious. Don't worry, I joined in, too. Soccer coach Rolando Uribe enjoyed the festivities a bit too much, saying, "Watch, I'm going to start the madness," before spiking an

inflatable basketball at someone's head. The festivities continued with Brice Nzeukou and Sarah Wright rapping their own version of "The Fresh Prince of Bel-Air Theme Song." I was impressed. They were embarrassed. It was a good time.

On Saturday, the appreciation continued with yet another barbeque. This one was more baseball themed with chilidogs, nachos, crackerjacks, and pink lemonade, because nothing says athlete appreciation like super unhealthy food. I felt quite appreciated. My stomach did not.

Unfortunately, the Caltech athletics teams didn't really perform up to the hype. Baseball fell to Redlands 9-1 (yeah, single digits!) and 15-3 in a double header. Men's tennis lost 9-0, with Devashish Joshi winning the only set for the Beavers. He's so hot right now. Women's tennis lost 8-1 with Rebekah Kitto winning at #1 singles (she moves to 7-1 for the season). Track and field also lost, but several members of the team set personal records.

Just like every Caltech student, our student-athletes work very hard and deserve some recognition, so this weekend was a nice sentiment. Caltech can be a very difficult place to be at times, so events like this are always well appreciated.

Now, please open the Brown Gym doors.



*Devashish Joshi attempts a backhand slice while simultaneously lookin' good*

- gocaltech.com



*"And I'm free, free fallin'. Yeah, I'm free, free fallinnnnnnn'."*

- Jonathan Schor

## Weekly Scoreboard

**April 7, 2012**

*Baseball  
vs. Redlands  
L, 15-3 Final - 7 innings  
L, 9-1 Final*

*Men's Tennis  
vs. Whittier  
L, 9-0 Final*

*Women's Tennis  
at Whittier  
L, 8-1 Final*

## Photo Caption Contest



- Andrew Gong

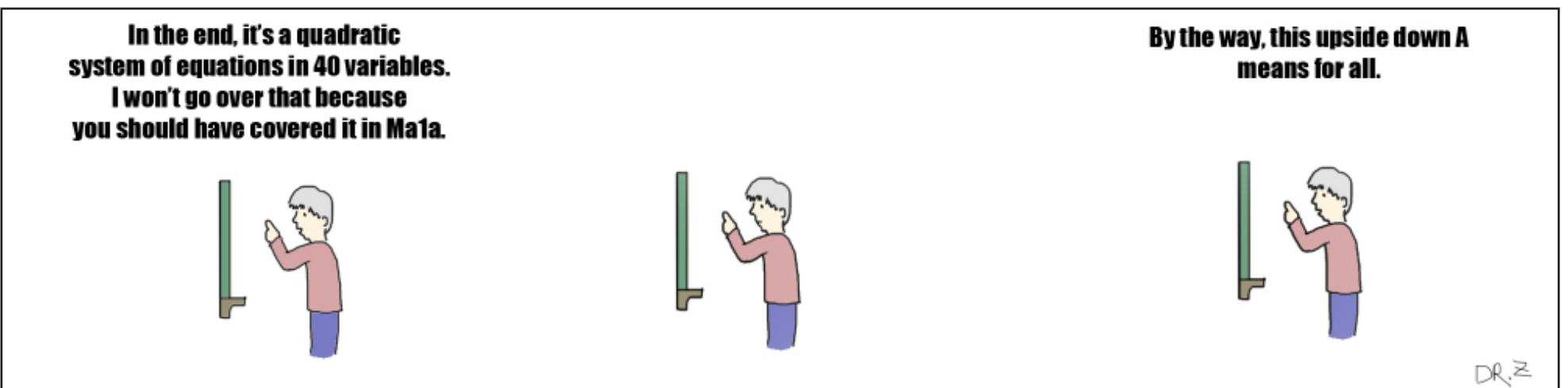
Submit a caption to this photo at [tech@caltech.edu](mailto:tech@caltech.edu)  
If I like it, I'll include it in next week's edition

Example:

*"...and that's how you drive a lowrider while air drying your socks."*

### DINO-BROS

BY TODD PROLNER



*The Tech editors will be visiting all of the Houses over the next two weeks! We'll be free during and after dinner to discuss the various ways to get involved with the paper, as well as to solicit suggestions and comments concerning our continued coverage of school affairs.*

*Here's when we'll be visiting each House dinner:*

- Monday, 4/2: Fleming
- Tuesday, 4/3: Lloyd
- Monday, 4/9: Blacker
- Tuesday, 4/10: Avery
- Wednesday, 4/11: Page
- Thursday, 4/12: Ricketts
- Friday, 4/13: Ruddock
- Monday, 4/16: Dabney

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DRZ