

Caltech scientists join Mars Science Lab team

KIMM FESENMAIER
Science Writer

With the Mars Science Laboratory (MSL) well on its way to Mars, the newest members of its science team have been announced.

Two Caltech professors—Kenneth Farley and Bethany Ehlmann—are among 18 researchers who have been selected as funded participating scientists on the mission. They were selected, along with about a dozen international scientists, from a pool of 149 applicants based on their potential contributions to the scientific objective of the mission—to use the car-sized Mars rover, Curiosity, and its suite of scientific instruments to search for evidence of a once or presently habitable environment on Mars.

“The Participating Scientist program for MSL was extremely competitive,” says John Grotzinger, the mission’s project scientist and the Fletcher Jones Professor of Geology at Caltech. “It’s great to have Ken and Bethany join the science team. Ken will bring unique expertise to the mission bearing on the age determination

of rocks and geomorphic surfaces that we will encounter. Bethany’s selection ensures that we are able to integrate her experience with orbiter-based spectroscopy with ground truthing of mineral compositions by Curiosity.”

might be possible to detect the isotope helium-3 with SAM’s spectrometer. Since helium-3 is produced by the bombardment of surface materials by incoming cosmic rays, measurements of the isotope can be used to determine

million years ago, but how would you ever really know?” Farley says. “The technique that I have is a way to say, ‘Yes, this is, in fact, a very young surface.’”

Farley says his involvement with MSL is a major departure from his previous work, as he has not been heavily involved in the study of the geology of Mars. “Most of what I do is technique development,” he says. “So it’s interesting for me to see potential application of one of those techniques in another very different setting.” In contrast, space missions are Bethany Ehlmann’s bread and butter. The assistant professor of planetary science at Caltech got her first taste of rover operations while an undergraduate student working on the Mars Exploration Rovers mission. Then as a graduate student, she was a collaborator on the Mars Reconnaissance Orbiter mission and used data from multiple orbiters to locate hydrated minerals on the surface of the red planet.

For MSL, Ehlmann proposed to help improve the team’s ability to select rocks from a distance for more extensive study. Curiosity is equipped with a laser and a telescope known collectively as ChemCam, mounted on its mast. From a distance of about seven meters, the laser can zap a rock to create a plasma, which can be analyzed with the ChemCam

spectrometer to get a sense of the chemical elements present. The science team needs to be able to use those results and their knowledge of mineralogy to quickly decide whether to spend more time and energy on a particular target or to keep Curiosity moving.

To give them a leg up, Ehlmann is analyzing rocks from places such as Iceland as well as synthetic mixtures of minerals in the lab that are similar to the materials observed from Mars orbit at the Gale Crater landing site. The rocks can be well characterized in Earth laboratories to understand their mineralogy, the elements they are made of, and how they would appear from orbit. She is studying how they have been changed by different types of interaction with water. She plans to take the samples to Los Alamos National Laboratory, which partnered with the French national space agency to build the ChemCam, in order to test her samples with a ChemCam-like instrument.

“It’s very helpful to have this beforehand understanding of what you might see or what kinds of analyses you need to run,” Ehlmann says. “If you understand the processes enough that you develop quick-look algorithms for detecting different styles of alteration, it will help in the tactical timescale when you only have a few hours to come up with a plan for the rover for the next day.” In addition to Farley and Ehlmann, two researchers from the Jet Propulsion Laboratory, Insoo Jun and Michael Mischna, were also selected as participating scientists. The new group brings the full science team for MSL to more than 300 scientists. They are busy preparing for the spacecraft’s August 5 arrival at Mars.



Credit: Michael Feynman

This will be the first space mission that Farley, the W.M. Keck Foundation Professor of Geochemistry and chair of the Division of Geological and Planetary Sciences at Caltech, has been involved with. His work focuses on measuring noble gases in rocks, and that is precisely what he hopes to help the MSL team do on Mars.

Examining the capabilities of one of Curiosity’s science instruments, Sample Analysis at Mars (SAM), which was designed to look for organic matter, Farley realized that it

how long rocks or other geologic features have been exposed on the surface of a planet. This could help scientists date features on Mars such as impact craters, but it could also come in handy in terms of target selection.

Imagine, for example, that the science team locates an impact site on Mars that seems to have been created within the last few million years. The rocks around that site would be ideal targets for closer study because any organic matter they contain would have been protected from cosmic rays until they were thrown out onto the surface. “The trouble is, it’s easy to say that an impact happened a

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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

Alzheimer’s in mice	72 hours after taking a skin cancer drug, memory improved radically [CNN]
Prop 8 overturned	3 judge panel ruled that ban of same-sex marriage is unconstitutional [WSJ]
Euro makes small gains	▲ 0.3% after Greece passed plan – still major concerns about stability [CNBC]
Gas prices in America	\$ 3.51 per gallon average – up 12 cents nationwide since late January [CNN]
Greece austerity plan	150,000 public jobs to be cut by 2015 – wages lowered 22% [NYTIMES]
European overfishing	€ 3.2 billion (\$4.2 billion) lost annually – ruinous to environment [BBC]
Violent riots in Athens	10 buildings set on fire – over 100,000 protesters – dozens injured [ABC]

Food with Mannion!

Do you like eating food?

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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

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ASCIT Minutes

1/29/2012

Officer's present: Chris Hallacy, Margaret Chiu, Laura Conwill, Diego Caporale, Mario Zubia, Michelle Tang, Laura Santoso

Guests: Kathy Garcia

President's Report

1. PFW: Probably won't do midnight donuts again because the mob scares pre-frosh. Thinking of new ideas for the carnival.
2. Big I: May bring it back next year if there's enough interest.
3. Basketball buses: Mannion providing buses for games.
4. Athletics: Betsy Mitchell will be meeting with the athletics faculty board. Wondering what the Student Athletic Advising Committee (SAAC) is doing.

Officer's Reports

1. ARC (Margaret)
 - a. Option requirements: Option heads are meeting with Melanie Hunt to discuss changes they might make to their major requirements in response to a change in core.
 - b. Couse feedback: working on Ombuds, trying to get qualitative input by midterms.
 - c. Option fair: Working on getting professors and students to hold booths.
 - d. Prof of the month: Warren Brown (humanities) is the January prof of the month.
 - e. SFL: Will be
2. IHC (LC)
 - a. New Fleming President: Is now Alan Menezes.
 - b. Admissions: Trying to get more house information available to people who are admitted, both about the housing system and housing personalities.
 - c. Bechtel Committee: student appointments are being made, up in the air right now.
 - d. Alcohol Cabinets: Are officially going to be made for each of the houses, though no deadlines for building have been set yet.
3. Director of Operations (Diego)
 - a. Paintballs in SAC 15: has started moving them to a better location. They are now on rolling chairs.
4. Treasurer (Mario)
 - a. Club funding: If clubs run out of money before the end of this year, they can come to ASCIT with proposals for more.
5. Social Representative (Michelle)
 - a. Ice event: Went well! Though music stopped early because of too many noise complaints.
 - b. Pong marathon?: Thinking about doing a massive water pong and ping pong tournament
6. Secretary (Laura)
 - a. Big T Editor: New editors in chief are Nikita Sinha and Melissa Xu.
 - b. SFC committees: Scheduling meetings with them.

An appeal for tennis court access

DANIEL JONES
Contributing Writer

The tennis players of Caltech are fortunate to have a set of well-maintained, well-lighted tennis courts available at our Institute. This service to the Caltech community enables us to get much-needed exercise after long days in the lab, and is greatly appreciated. Unfortunately, we are dissatisfied with the recent changes to the tennis court reservation system, which make playing tennis considerably less convenient (and at times impossible). We communicated these concerns directly to the athletics administration weeks ago, but received no response.

Prior to January 11, the tennis courts were accessible by entering a code in the tennis court gates. This code was changed periodically and could be obtained by presenting a Caltech ID at the Brown front desk. Reservations could be made by calling the Brown front desk. To play tennis, one simply called ahead and then showed up at the courts.

As of January 11, the gate codes have been inactivated, and access to the courts is available only during Braun Athletic Center hours by picking up a key at the front desk. In our view, these changes (as we understand them) present substantial disadvantages:

1. Courts are only available during Braun hours of operation. On weekends, this means no tennis after 6pm, whereas previously courts were available until the lights turn off at 10. Finding time for physical recreation is always a challenge, and removing that possibility during weekend hours (when hardworking Techers are more likely to actually have free time) only makes matters worse. Furthermore, tennis courts would not be available at all during Institute holidays when the athletic center is closed. Unlike swimming pools, for instance, where risk to participants necessitates some level of supervision, tennis courts do not require direct supervision. Thus, this policy seems difficult to justify.

2. Walking back and forth from the courts to Braun to get a key is a substantial inconvenience. Courts 1 and 2, for instance, are about a 5 minute walk from Braun.

If someone has an hour to play tennis, then 10 minutes at the beginning and end of that hour spent walking to and from Braun consumes fully a third of ones playing time.

This is inefficient and not a good use of anyone's time. Imagine if checking a book out from Millikan 9th floor required walking to the SFL front desk.

Such a situation would not be acceptable to library patrons.

3. It is no longer possible to reserve a specific court. Admittedly, this is a lesser concern, but it was useful to be able to specify a court, as some have better lighting than others. These changes make it more difficult and inconvenient for Techers to get much-needed physical activity. Moreover, we are unable to discern any advantages to the new rules. We would appreciate it if the athletic department could address these concerns, and correct us if they are based on misunderstandings. As a point of comparison we note that it is now more convenient to use a microscope in the Biological Imaging Center than to play tennis. When using million-dollar scientific equipment is less of a hassle than using a tennis court, something would seem to have gone awry. For more information, contact danielj@caltech.edu, or visit ipetitions.com/petition/caltechtennis.

Sincerely,

Daniel Jones
Dr. Franz Weinert
Mattias Rydenfelt
Dr. Martin Pilhofer
Tim Wannier
Paula Popescu
Kevin Engel
Itamar Yaakov
Prof. Michael Elowitz
Katie Miller



<http://gocaltech.com/>

A response to the Scholten letter

JOSE TORRES
Contributing Writer

I am writing this letter in response to Travis Scholten's letter last week regarding Isaac Hayes' letter two weeks ago regarding hazing.

Travis actually makes some valid points about hazing.

The term is usually defined vaguely, referencing what a reasonable person would think and how a reasonable victim might feel.

It is difficult to refute accusations of hazing, because the motivations or opinions of the perpetrators are entirely irrelevant to how the victim feels.

But in most cases, reasonable people can and do agree on what constitutes hazing. That's why we can have an Honor Code; there's no need to tell people more than "treat each other nicely," if people are reasonable about what it means to be nice.

So why is the Honor Code not sufficient to deal with hazing?

following four years. Reasonable people do not argue that sexual harassment isn't a big deal. But most importantly, reasonable people absolutely do not argue that it's impossible to justly consider the feelings of the victim.

That's really the core problem here.

Treating hazing as a trivial concern was never an option, and should never be an option. So all the cries that it's not a big deal, that people who complain are just whining, that it's not fair to let one person ruin an activity... they were worse than useless.

We might as well have told the administration, "We do not recognize the legitimacy of harassment, we will not be reasonable about dealing with it, and we will make no efforts to avoid it."

If the student body refuses to take responsibility for enforcing this aspect of the Honor Code, the administration is forced to step in.

As an aside to Mr. Scholten, I don't think it's particularly deplorable to find a funny picture

“

We might as well have told the administration, "We do not recognize the legitimacy of harassment, we will not be reasonable about dealing with it, and we will make no efforts to avoid it." If the student body refuses to take responsibility...the administration is forced to step in.

”

Well, the Caltech student body has openly refused to meet the standard of reasonableness.

Reasonable people do not argue that sexual degradation might be an acceptable part of initiations, especially initiations into a group that is supposed to serve as your social support group for the

funny. And while I disagree with your opinions on the subject, I don't even think it's deplorable to ask for better treatment of hazing perpetrators.

What I do find deplorable is writing a letter about hazing without once showing a shred of concern for hazing victims.

Looking to make some extra cash? Beckman and Ramo Auditoriums are hiring Ticket Takers, Late Ushers, and Regular Ushers. Students get to choose when they want to work, no experience needed, no hard labor involved, and they can work 2 hr. shifts, 3 hr. shifts, or 4 hr. shifts at \$15 per hour.

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Go to <http://events.caltech.edu/index.html> for more info on public events at Caltech.

To apply, email Adam Jacobo (ajacob@caltech.edu) or call (626)395-5907.

Caltech Couture: A tribute to Alexander McQueen

ALEX LANGERFIELD
Columnist

Two years ago from last Saturday, a great man died. Alexander McQueen was a brilliant British

By the time he was six years old he had already realized that he was gay. At sixteen, he left school to be an apprentice in Savile Row, which is a street in London famous for its custom tailoring shops. Here he started his extensive

dramatic shows and controversial pieces.

He introduced the low-cut “bumster” pants which raised eyebrows but became very famous and popular. He used Aimee Mullins, a Paralympic sprinter, on

appointment as it trumped his creativity and his first collection under this new appointment was just “crap”, as he himself put it. McQueen also created his own label named after himself: Alexander McQueen.

In December 2000 the Gucci group acquired 51% of this company making McQueen its creative director and fortunately the label lives on to this day.

The designer has also done numerous collaborations, including Puma and MAC.

McQueen has been awarded numerous international fashion prizes and in 2003 he received the CFDA Award as International Designer of the Year. He was also named the Commander of the Order of the British Empire.

Despite his tremendous success, Alexander McQueen wasn't always happy and suffered from bouts of depression. He was found hanging in his own home two years ago.

Analyses showed that he had been taking many drugs in the time leading up to his death and his blood samples had high level of cocaine and tranquilizers.

His death was officially declared a suicide.

His death saddened many and tributes were made to this rebel genius.

His label lives on, as well as a legacy of brilliant provocation shaped by razor sharp tailoring.

Born in the working-class end of London, Alexander McQueen died a legend, worthy of the nickname “Alexander the Great”.



Fashion designer and icon Alexander McQueen passed away on February 10, 2010

- handbagdujour.com

bad boy fashion designer and couturier who was recognized for his controversial collections, exquisite tailoring, and detailed theatricality.

Alexander McQueen, born Lee Alexander McQueen, was the son of a taxi driver and was as the youngest of six children. He was born in March 17, 1969 and grew up in the working-class East End of London.

training in classic British tailoring traditions. Eventually, McQueen became a master of six different cutting techniques and acquired the trademark exquisite sharp-edged tailoring of his subsequent designs.

Alexander McQueen first entered the public eye on his graduation from the renowned Central St. Martin's College of Art and Design in London. Isabella

his runway as she walked down the catwalk on two hand-carved wooden legs.

He staged one of his fashion shows as a shipwreck and used special effects like fire, blood smears, and wolves in others.

Together with John Galiano, who was also very big on theatrical and dramatic elements in his works, McQueen breathed new life into the Paris fashion scene.

Major celebrities, such as Mikhail Gorbachev and Prince Charles, became his clients, as well as Lady Gaga, Kate Moss, and Björk. (Psst, those absolutely crazy heels that Lady Gaga wears to the lines “walk, walk fashion baby, work it move that ...” in her music video for Bad Romance

are McQueen shoes!)

In 1969, the president of the major fashion company LVMH appointed McQueen as the head designer of Givenchy, succeeding his partner in crime Galiano.

McQueen made it clear that he has not thrilled with this

“

He (Alexander McQueen) staged one of his fashion shows as a shipwreck and used special effects like fire, blood smears, and wolves in others.

”

McQueen's trademarks began showing through early in his life. His love for fashion became evident early on when as a boy he would make dresses for his three sisters. In school he was a bit odd, often called “McQueer” by his classmates.

Blow, the British fashion journalist, purchased his entire graduation collection. One year later, McQueen created his standard-setting collection—the “Highlands Rape” collection. Alexander McQueen has continually lived up to his “enfant terrible” reputation with

Tech Walk n' Talk



Thursday, February 16 at 12:00 join Director of Athletics Betsy Mitchell for a relaxing walk around campus. We will meet in front of the red door, and the first 35 participants will be given pedometers. A light lunch reception at the MOSH's house will follow.

Tech Walk n' Talk has been designed to foster connection and community among Caltech students, faculty and staff and to promote a healthy lifestyle. The program utilizes community walks around campus to promote wellness and provides a causal environment for students to interact with the many faces of Caltech. It is an opportunity for faculty and staff to talk about their research, share personal stories and their contributions to the history of this institution. Students will benefit from exercise, learning and strengthening their connection to the Caltech community.

S2S connects students

SUE JIANG
Contributing Writer

There are many formal support systems in place at Caltech, such as the Counseling Center, UCCs, and Diversity Center. The Student-to-Student (S2S) Mentoring Program serves as a unique option for students seeking support or wishing to offer support to another student. First started in 2009, the S2S program is different from traditional mentoring programs in that it is almost entirely student-run, where student mentors specify the life situations they are experienced in, and are willing to discuss. This way, students looking for a mentor can easily find one who has faced the same challenge.

S2S is a resource that allows students to talk with someone who is willing to listen, and to be reassured that they are not alone. Someone else at Caltech went through the same difficulty, and overcame it. Students interested in becoming mentors go through an orientation process that teaches the value of student-to-student support, ways to be an effective mentor, and the importance of respecting a mentee's privacy. Because there are times when a mentee's concerns go beyond what a mentor can provide, mentors are trained to understand the limits of their role, and how to get a student professional help when necessary.

One student who was mentored said, "I just wanted to talk to someone who went through the same experience I did, but is still making it through Caltech." A current mentor, reflecting on her experience, said, "The students I mentored did not seem to want me to fix their problem or even offer advice, they simply wanted to be reassured that they will make it through their difficult situation." Another mentor joined the program because he "believes that students can solve many of those issues most effectively with each other. The premise of S2S mentoring was to expand the Caltech Safety Net, while adding a new, lower-threshold rung on the hierarchy to give access to students who hadn't considered seeking counseling before.

Caltech is often the source of our problems, but it can also be the answer. It is easy to emphasize differences between students, but S2S helps us see that we are not so different after all. We all have the ability to provide support for those in need, even if it means simply lending an ear. If you are interested in learning more about the program or becoming a mentor, visit <https://s2s.caltech.edu/> for more information. An orientation for new and returning mentors will be held on Saturday, February 25 at 1:00 pm in Winnett. RSVP to sjiang@caltech.edu.

Tech talks to Prof Kirschvink

YASHNA PEERTHUM
Contributing Writer

Joseph (Joe) L. Kirschvink is the Nico and Marilyn Van Wingen Professor of Geobiology. He graduated from Caltech with a B.S. and an M.S. and went on to acquire an M.A. and a Ph.D. from Princeton. He has been teaching at Caltech since 1981.

Yashna Peerthum: How has your view of Caltech changed over the time you've been here? Do you feel that Caltech itself has changed a lot?

Professor Kirschvink: I immensely enjoyed being an undergraduate. Something just clicked and I knew it was right for me.

The thing about Caltech is that you have to realize that a good portion of the class is more intelligent than you are.

Teaching here is a very stimulating challenge and it requires the professors to be constantly on their toes.

I was an undergrad here from 1971 to 1975 and I majored in biology. The most useful classes I had had here as an undergrad were maths1, physics1 and chem1, and the core reviews they have every six years have ensured that, over the last thirty four years, the most important parts have been changed.

YP: What made you decide to come back to teach at Caltech?

PK: I was given the job here and it was a job offer I couldn't refuse. It's an honor and a pleasure to be here.

YP: As a geobiologist, you've traveled all over the world. Can you recall a trip or an experience which stands out? In a good or bad way?

PK: The year I spent in Australia as a Thomas J. Watson fellow. This was right after I graduated from Caltech from 1975 to 1976. It was the best experience I ever had. The foundation still has fellowships available for students. It was one solid year to focus only on research and that was absolutely fantastic. I can't imagine any other agency which would be willing to give a random student from nowhere a chance like this.

YP: You are involved in a lot of different research areas: geobiology, astrobiology, paleomagnetism. What sparked your interest for geobiology in the first place? And how did you get to be involved in so many different areas of research?

PK: I came to Caltech wanting to be a double major. After I read the course catalogue carefully, I realized that if I fulfilled all the requirements, with the number of

units I had, I could get a Masters with the same courses. So that's what I did and I got an undergrad degree in biology and a Masters in geological and planetary sciences. Geophysics, paleomagnetism, geobiology: these are all things which go together. There was a professor at Caltech who thought paleomagnetism was a good way to interest Caltech students in research and he made a whole slew of us go out, look at rocks and work in magnetics. He was right.

YP: What would you say was the most significant moment of your life? One which had the most impact on you?

PK: That would be the birth of my first kid. It's certainly the biggest change that happened in my life.

YP: Is there anything else you would like to tell the students at Caltech?

PK: Hang in there. There is a good bright light at the end of the tunnel and it's not always red. I would say: look, find something that's the most interesting thing you've ever seen. For me it was the teeth of a mollusk a professor, Heinz Lowenstam, showed me.

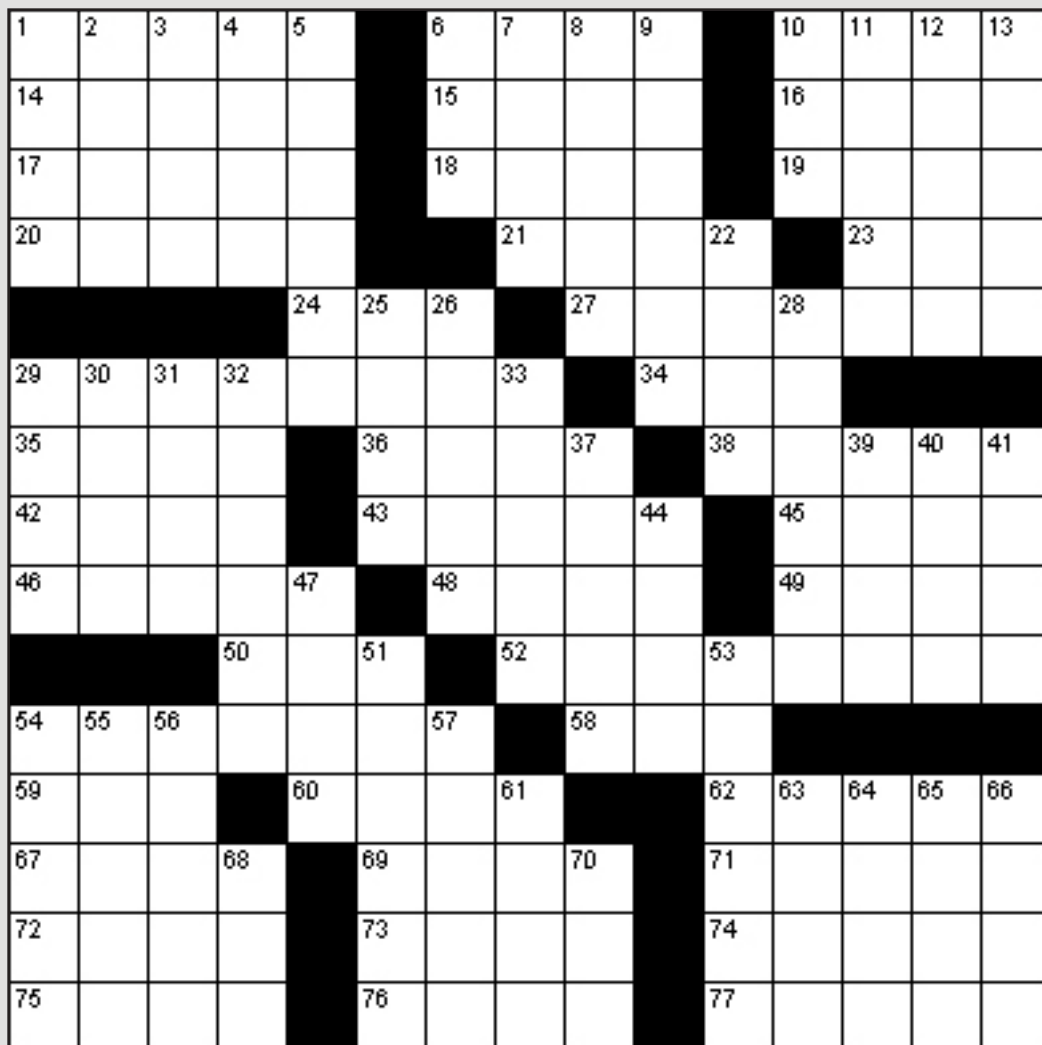
When I realized they could be moved by a magnet, I was fascinated and that was when I got into paleomagnetism.

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Today's Puzzle: Crossword



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

Across

1. Surname of A Beautiful Mind actor
6. Actress, Cameron ____
10. Bivouac
14. Invigorate
15. Land measure
16. Finished
17. Rewrite
18. Chow ____
19. Show excessive affection
20. Fertile plain
21. Expensive
23. Anger
24. Writing fluid
27. Highest mountain in Wales
29. Surname of Rocky actor
34. Volcanic debris
35. Earth has a north and south
36. Opening
38. TV serials
42. Golfclub
43. Type of tree
45. Fiend
46. Adolescent years
48. Trot
49. Bow of a ship
50. Belonging to us
52. Surname of Oscar-winning Good Will Hunting actor
54. Wander
58. Coloring material
59. Nightmare street
60. Disparaging remark
62. Accumulate
67. Gemstone
69. Part of the eye
71. Personal attendant
72. Notion
73. Simplicity
74. Composition
75. Limited period of time
76. Leaping insect
77. Laurel Hedare in the 2004 movie, Catwoman, Sharon ____

Down

1. Clothed
2. First American woman in space, Sally ____
3. English cricket ground, sounds geometric
4. Cried
5. Imply
6. Water barrier
7. Frozen
8. Star sign
9. Light quilted fabric
10. Fish
11. Obviate
12. French Underground railway
13. Clean with a bill
22. Surname of Lady Sings the Blues star
25. Kind of star
26. Sound of a bell
28. First name of Sister
Act actress
29. Skewer
30. Ripped
31. Succulent plant
32. Surname of ex-Beatle
33. Empower
37. Lukewarm
39. Site of the Taj Mahal
40. School dance
41. Darns
44. Depend
47. Foam
51. Respite
53. Departs
54. Virtue
55. Evade
56. Translucent fossil resin
57. Pertaining to country life
61. Ascent
63. Vertical spar
64. As well as
65. Former Bond actor, ____ Connery
66. Eye infection
68. Edible tuber
70. Expanse of water

Odd Future Wolf Gang kills all of the competition

CLEMENT LACROUTE
Staff Writer

Parental advisory: the groups referred to in this article tend to use very, very explicit lyrics (like, so explicit).

In the early 90s in New York City, a Clan was formed that would leave a W-shaped mark on the face of hip-hop-forever. While West coast and East coast were literally at war, only stopping with the tragic deaths of Tupac Shakur and the Notorious B.I.G., the RZA was sending his Killa Bees all over the globe to take over the Hip-Hop world.

If they did not 100% succeed, they still managed to influence the whole game, releasing classic after classic all through the '90s (and still do, once in a while).

Millions of hip-hop heads still mourn the death of ODB in 2004, and Kanye West cites Ghostface Killah and RZA as some of his main influences.

This decade is seeing the rise of a West Coast Wu-Tang clan, in the very city of Los Angeles (not Pasadena, though, go figure). Odd Future Wolf Gang Kill Them All is not exactly a group, but rather a collective that is generating the same kind of momentum in the past few years that the Wu-Tang Clan was 20 years ago.

They are more anarchic than the Clan though: they have a leader, Tyler the Creator, but he's not as

close to a guru as Bobby Digital is. They are mostly a gang of rappers, producers, and singers, gathering under the same umbrella, united by their similar tastes and ambitions.

They skate, shoot cheap gore clips, do jack-ass type stunts, use the F word as often as they possibly can, and can't help giving the finger whenever a camera is around.

They are also teenagers of the latest era, using today's technology to broadcast their work and social networks to keep the buzz buzzing.

It all started with mixtapes released for free via the now defunct MegaUpload and photos on Tumblr; now they have their own YouTube channel, an upcoming TV show, and a record label.

How about the music then, you might rightfully ask?

As far as the lyrics go, you should be prepared. This is not for everybody's ears. These guys are as close to the 1970's British punks as it gets: they hate on just about everyone, they're young and confident, they don't seem to see any brightness in this odd future, and their favorite themes are all related to sex/violence/drugs.

As Tyler puts it, they want to show "that breaking the rules is f***ing cool again." How provocative can you be at times when "artists" give the finger to 152 million viewers during the Superbowl half-time? Odd Future is probably the answer.

But the thing is, they're actually talented. Their slow, stomping, worrying productions combined with the low voice of Tyler are hypnotic, and you can't help but listen to the stories he's telling.

And even though Tyler gets the most media coverage, he's not the only one around. Producer/singer Frank Ocean worked on the Watch the Throne album by Kanye West and Jay-Z; the duo MellowHype, composed of rapper Hodgy Beats and producer Left Brain, have a new album coming soon; The Internet, soul/RnB duo Syd tha Kid and Matt Martians, just released an album; and so on and so forth.

The collective seems to be constantly working, judging from the number of mixtapes that keep pouring out.

They are also to release a new Odd Future album on March 20th, Tape Vol. 2. Amongst this wide cast of characters, you

might well find one you like. And just as with the Wu-Tang Clan, the exciting thing now is to pick favorites.

You may even try and bet on who will actually stand out from OFWGKTA, 10 or 20 years from now, as major rappers.

The Wu-Tang Clan and Odd Future will both be headlining the Paid Dues Festival in San Bernardino on April 7, 2012—it's about to get real, only one hour drive away from sweet Pasadena. And West Coast legend DJ Quick will also perform!



The next Odd Future album, *Tape Vol. 2*, is set to be released on March 20th. Featured on the cover is Odd Future affiliate Lucas Vercetti.

Caltech women's basketball team finishes home slate, celebrates seniors

from gocaltech.com

PASADENA, Calif. – In the final home game of the season for the Caltech women's basketball team, Cal Lutheran posted a 77-34 win over the Beavers.

It was the final home game for a trio of Caltech seniors as Teri Juarez, Shannon Mohler and Krissy Dahl participated in their last game.

The two sides played the opening minutes of the game tightly as neither team held a lead larger than nine points. With Cal Lutheran (16-7, 9-3 SCIAC) holding a 20-15 lead with 10:24 on the clock, the game's momentum swung heavily into the visitors favor. The Regals closed the half with 22 unanswered points in taking a 42-15 lead into the locker room.

Cal Lutheran concluded those first 20 minutes by shooting 53.3 percent (16-for-30) from the field in building their lead. Their post

players played a big role as well as they posted a plus-13 rebounding edge while outscoring Caltech 20-4 in the paint.

The visitors continued to put the pressure on in the second half as they built their lead by forcing Caltech (0-23, 0-12 SCIAC) into 15 turnovers while continuing their post pressure in taking the win.

The Regals posted a 42-28 rebounding edge and held a plus-26 point margin for points down low in the victory. They also used 16 offensive rebounds to record a 22-5 edge in second chance points.

Juarez continued her solid stretch during her senior campaign by recording team highs in points (10) and rebounds (12). Marlyn Moore pitched in a nine-point effort for the Beavers.

Starla Wright led all scorers with a 17-point evening in 20 minutes. She also grabbed a team best eight rebounds. Keeley Anderson came off the bench to contribute 10 points.



The Caltech women's basketball team played their last home game of the season on Saturday and celebrated their graduating seniors, pictured above.

- gocaltech.com



No one knows what it's like to be the Batterman...to be the Satterman...behind what I assume to be blue eyes

- Amol Kamat

Weekly Scoreboard

FEBRUARY 11, 2012

MEN'S BASKETBALL
VS. CAL LUTHERAN
L, 54-49 FINAL

WOMEN'S BASKETBALL
VS. CAL LUTHERAN
L, 77-34 FINAL

BASEBALL (DOUBLE HEADER)
VS. LA VERNE
L, 23-1 FINAL - 7 INNINGS
VS. LA VERNE
L, 23-5 FINAL - 7 INNINGS

WOMEN'S TENNIS
AT BIOLA
W, 9-0 FINAL

Caltech women's tennis team wins...men's team doesn't

FROM gocaltech.com

Women's match:

LA MIRADA, Calif. -- The Caltech women's tennis team posted their second straight win with a perfect score against Biola on Saturday afternoon.

The Beavers 9-0 comes one week after the squad top the Master's College 7-2.

Caltech took five of the six singles matches in straight sets led by Rebekah Kitto's double-bagel win at No. 1 singles.

Stephanie Kwan won the first set in a tiebreaker before cruising in the second set for her win at the second singles position. It was a similar story for Jessica Yu in the third singles slot. Wubing Ye pulled out a three-set win at No.4 while

Michelle Lee and Zeke Millikan completed the perfect singles match for the Beavers at the fifth and sixth singles positions.

Caltech was never threaten during doubles play as they won 8-4 at the No. 1 and No. 3 slots while posting an 8-2 win in the second doubles position.

Men's match:

PASADENA, Calif. -- The Biola men's tennis team posted a 7-2 win over Caltech on Friday afternoon at the Braun Tennis Courts.

The No. 1 double duo of Devashish Joshi and Luka Mernik pulled out a tough 8-6 win for Caltech top open the match.

Leading 2-1 heading into singles play the Eagles took four the six match in straight set in posting the win.

Caltech got a marathon match win at the No. 6 singles spot as Ryan Batterman won 6-0, 5-7, (10-3)

Winning match scores (from men's match):

6 singles. Ryan Batterman (CALTECH) def. Chris Evans (BIOLA) 6-0, 5-7, 10-3

1 doubles. Devashish Joshi/Luka Mernik (CALTECH) def. Thomas Coibion/David Mossman (BIOLA) 8-6

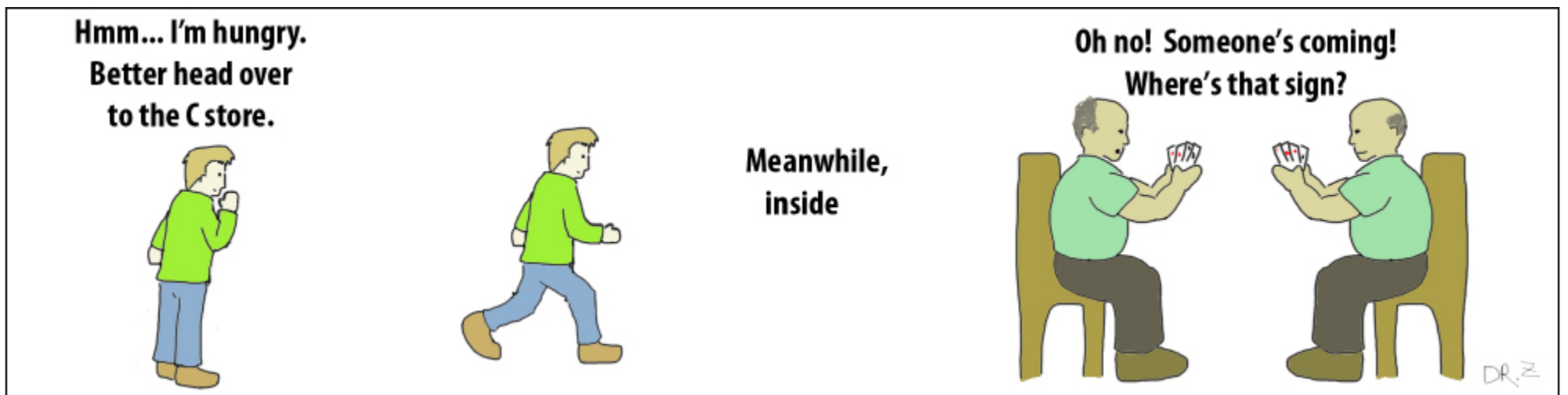
Sports Editor's note: Ryan Batterman's match truly was a marathon. In the freshman's first intercollegiate win, Batterman played two incredibly long sets and won in a ridiculously long tiebreaker. For the second week in a row, he was the last Beaver remaining on the court. I believe this means Coach Gamble owes him a steak dinner...

Career Fairs

by Slai



Acquired Taste



*For more photos,
videos, and archives
of previous issues,
check out the Tech
website!*

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