

Forbes magazine recognizes three Caltech leaders

MARCUS WOO
Science Writer

Two alumni and one graduate student from Caltech have been named to *Forbes* magazine's 30 Under 30, a list of notable leaders who have yet to reach their 30th birthdays. The list, which was released in December, honors people from 12 fields that range from finance and science to music and entertainment.

Graduate student Chris Rogan made the list in the science category. Rogan has lived in Geneva, Switzerland, for almost six years working on the Large Hadron Collider (LHC), the most powerful particle accelerator in the world and perhaps the most complex science experiment ever conducted. The LHC slams protons together to produce particles that then decay into a flurry of other particles in a fleeting moment. Rogan is part of Caltech's team involved in the Compact Muon Solenoid (CMS), one of the main detectors of the LHC that's sifting through heaps of particle-collision data to tease out evidence for new types of particles and exotic theories of physics.

"The coolest part of my work is that our experiment is truly able to look at the world in a way that no one has been able to do before," Rogan says. "The CMS experiment is like an incredibly complex camera that takes pictures in both space and time of what happens in high-energy collisions—a camera that

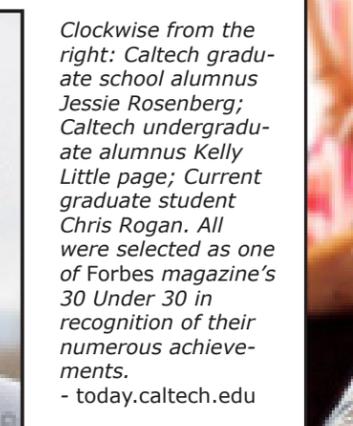
represents the work of thousands of physicists and engineers. It's been a very fortunate and exciting time to be a graduate student working on the LHC."



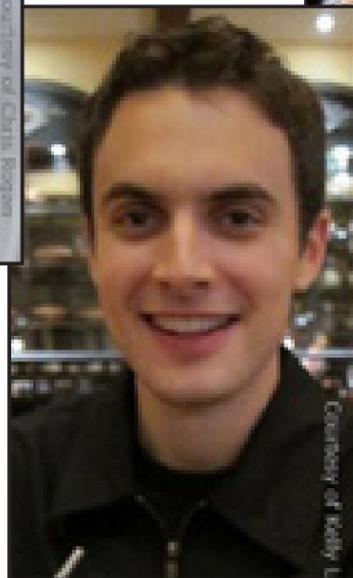
An endeavor as ambitious as the LHC would be impossible without students like Rogan, says Maria Spiropulu, professor of physics at Caltech and Rogan's advisor. "His work changes the way we search for new physics at the LHC, and he continues to push the boundaries, and as he learns, he also teaches his colleagues," she says. "He is incredibly driven and does not cease to impress me."

Jessie Rosenberg (PhD '10) came to Caltech when she was 17 years old—as a graduate student. Rosenberg learned how to read at age three and a

half, learned about the Pythagorean theorem at age eight, and took physics at the University of Virginia in the eighth grade. She skipped high school



Clockwise from the right: Caltech graduate school alumnus Jessie Rosenberg; Caltech undergraduate alumnus Kelly Littlepage; Current graduate student Chris Rogan. All were selected as one of *Forbes* magazine's 30 Under 30 in recognition of their numerous achievements. - today.caltech.edu



and went to Bryn Mawr College before studying applied physics at Caltech, where she worked with Oskar Painter, professor of applied science, on devices called optical resonators, which are used to trap and manipulate light.

She's now a researcher at IBM TJ Watson Research Center,

developing faster ways for computers to communicate with one another. The limit of today's



supercomputers isn't computation power, she explains, but in sending and receiving data. Computers are now connected with thick, electrical wires, which lose power as electrical signals travel through the cable. But if optical fibers replaced electrical wires—if instead of delivering data with electrons you use photons—then data can be transferred with negligible data and power loss. Using silicon photonics, as the technology is called, tomorrow's computer networks can be vastly improved in speed, efficiency, and cost, she says.

Rosenberg credits Caltech for making her a better researcher. "I think everything I did there helped me get to where I am now," she says. "My time there helped me to not be scared of pulling out the schematics for a complicated piece of cleanroom equipment and crawling under there with a

screwdriver. I learned that even if something doesn't work the first fifteen times, maybe it'll work the sixteenth."

Making the list in the finance category is Kelly Littlepage (BS '09), who majored in applied math and business and minored in control and dynamical systems. While a senior, he started working at Crabel Capital Management, where he's now the director of microstructure, working on financial strategies and algorithms for trading.

By the time he arrived on Caltech's campus, he knew he wanted to get into finance. "I love the high-energy environment and the application of math and scientific computing to an increasingly technical field," he says.

"The problems are completely open ended, the data sets are intractably large, and the stakes are large. Financial markets share much with academia: there's always something new to research, and theories are constantly in motion. I never get bored and I never run out of work."

He adds, "I could make a more meaningful contribution to science through business. Building synergies between the two is a big goal of mine."

One of the most valuable qualities he's learned from Caltech is the confidence to tackle any problem.

"Caltech instilled in me the mindset to glue myself in a chair with a pad of paper and Google on my screen until I solved the problem," he says. "The daily exposure to some of today's best minds was awesome. It was through my friends and the housing system that I learned how to work hard, solve problems collectively, and get the job done."

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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!

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Free musical performances in Beckman February 4th

On Saturday, February 4, at 8 PM, there will be a free concert where over a thousand people will fill Beckman Auditorium. The concert is sponsored by Student Affairs at Caltech. At the concert, there will be performers that have been showcased all over the world. The vocalist is one of the best known performers in the latin jazz community. There will be two excellent jazz bands, and one of Los Angeles' finest mariachi ensembles will perform for you as you wait in line to get into the auditorium. Finally, the Caltech Salsa Dance Club will also perform, as well as two professional salsa dancers hired especially for the occasion.

Why free? It's a gift to the Caltech and Pasadena community from the Caltech Jazz Bands, who are also going to be featured in this annual performance of latin jazz music.

The two headliners are Candi Sosa and Paul Lopez. Paul Lopez has been around for more than eighty years, and during that time, has established himself as one of the finest composers and arrangers of latin jazz. Candi is, no argument allowed here, one of the great singers of any generation, of any style. She is the Billie Holiday of latin jazz.

Yeah, you're thinking. Why would I want to go all the way to Beckman Auditorium to hear a free concert. Because you care about being in a place where your fellow students are going to perform, because you care about other things in your life besides studying all the time, because you want the world to be a better place. And by supporting and attending this concert, you can do all of the above. And, it's free.

Update on US, Canada floorball matches

The qualifying matches between the US and Canadian men's floorball teams will now take place take at 8pm on February 2nd in Brown Gym, instead of Braun Gym, and in Huntington Beach at 8pm on February 3rd at The Rinks. Concerns over damage to Braun Gym as well as the limited length of the court have prompted the moves. More details may be found by emailing bandy@caltech.edu or floorball.caltech.edu. We apologize for the change-up. The address of The Rinks is : 5555 McFadden Avenue, Huntington Beach, CA 92649.

Hazing should be stopped, but through the honor code

ISAAC SHEFF
Contributing Writer

Dear Professor Hoffman and the rest of the Hazing Policy Committee,

The following pertains to one of the hazing meetings that I attended.

I am no fan of hazing. In high school, I adopted a strict personal policy of never utilizing class, age, or rank, or any of the (even institutionally sanctioned) privileges thereof to gain any advantage. Some of Caltech's policies, such as guaranteed freshmen on campus rooms, make that an impossibility to maintain here, but I firmly believe that abusing the kind of longing for community acceptance that all initiates feel is socially and morally unacceptable in a modern setting.

That being said, though, I'd like to point out a few important outside policies that may come into play within the coming months. To begin with, during the hazing meetings you cited California law as an important ban on hazing. You neglected, however, to consider that a hazing policy could in fact be so broad as to infringe upon first amendment rights, which are protected under Education Code, Section 94367.

For example, in 1990, Judge Ronald Tenold ruled that a hazing policy governing initiation into a sports club at Western Illinois University was unconstitutional, declaring that the law was too vague, too broad and could restrict a wide range of campus speech protected by the 1st Amendment. (http://articles.chicagotribune.com/1991-11-18/news/9104140669_1_nicholas-haben-hazing-acute-alcohol-intoxication). I understand that you are trying to write a catch-all policy in order to cover your legal vulnerabilities, but in doing so, you may have opened the door to a whole new set of legal problems.

Caltech has had incidents I would consider hazing in its past. As you had mentioned the 1970s as a time before any hazing traditions had begun, I have been going through the yearbooks from 1970-1979. I found a number of disturbing incidents.

On page 40 of the 1970 T, Fleming House boasts: "By popular demand, the practice of initiation was resumed, and pledge master Joe 'Hawk' Rayhawk and 'Man Mountain' Marko were ready and able to introduce some twenty green frosh to the more pleasant aspects of 'accelerated integration into house life.' The freshmen were subjected to all kinds of mean, horrible, nasty, and ugly things."

Page 58 of the 1970 T describes some of Ricketts' initiations: "Said frosh were immersed in house tradition early at the annual Oxy Sing, as they faithfully shouted the Crud Alley Song amid barrages from above." An accompanying photograph displays a group of

students cowering under a hail of unidentifiable objects.

Page 64 of the 1970 T provides some insights into Ruddock's initiations: "Before the end of the second week of classes, the Ruddock M.E. department began its program of 'teaching by doing' with the construction of a quasi-successful water balloon catapult. Accidentally initiated during the testing phase was a grad from Braun . . ." The implication, of course, is that initiates would be pelted with a water balloon canon.

Page 44 of the 1971 T displayed signs of some hazing tradition gone amok: "While most of initiation went smoothly, it is truly unfortunate that Mr. Shaw's reign was marred by a single vulgar act on the part of the house. At the very first meal after rotation, the Flemings descended to a level of barbarity and cretinism never before seen in the hallowed halls of the Fleming House Dining Room. I trust that such intolerable conduct will never be seen again."

Although no explanation accompanied it, a photograph from page 219, in the Page House section of the 1974 T, disturbed me (see photo).

The writing on the bib reads "FROSHLING," a common term at the time.

The Ts of the 1970s detail a number of continuing traditions, including Fleming Frosh Wash (other houses may have historically held events with similar names. Fleming's is distinct). The 1979 T mentions on page 129 that "The frosh were so rowdy that Frosh Wash was held most of first and second term." The nature of this event is not explained, but it is usually mentioned near pictures of Frosh sopping wet, or coated in mud.

There are older traditions, too. For example, before the 1970s, when the cannon became

Fleming's property, they used to send out the Frosh each year to steal it from the military academy that actually owned it.

All of these activities were, in my opinion, violations of the honor code. They all represent upperclassmen taking unfair advantage of the fear of social rejection present in the freshmen in order to entertain themselves. This was not acceptable then, and it is not acceptable now. I am glad that none of these activities persist today.

I am a big fan of the honor code. In my opinion, hazing, as well as a multitude of other social and academic issues, are neatly encompassed by the creed: "No

member of the Caltech community shall take unfair advantage of any other member of the Caltech community." On Tuesday, I asked Deans Nye and Hunt whether your hazing policy was encompassed within, or meant to augment, the honor code. Their reply was that this policy was within the honor code, but that: "we wanted to articulate guidelines."

When I asked you, professor Hoffman, whether your policy was contained within the honor code, you replied that "I don't think it's actually a proper subset." I must admit that this deeply troubles me. To begin with, I'm certain that anything I consider hazing involves a member of the Caltech community taking unfair advantage of another member of the Caltech community. Furthermore, the CRC's charge is to enforce the honor code, and if this policy covers material outside the honor code, then the CRC cannot judge it. I hope you understand my fear at the creation of a new policy that can only be judged by the deans, given dean judgments in recent months.

You had asked me to elaborate upon my complaint that the policy is too vague. When you write a policy, and declare that it is to be enforced by a judicial body, such as the CRC, they are bound to enforce that policy. Under the hazing policy as you have written it,

"The creation of any situation, consensual or not, that may reasonably place another person in danger of physical or psychological

harm, or demonstrates disregard for another person's dignity or well-being. Hazing occurs when participation in—or exposure to—a situation is an implicit or explicit condition for initiation to, admission into, affiliation with, or continued social or cultural membership in a group or organization."

mental hazing." For example, as I brought up at the meeting, a student could claim that rotation dinner is an activity for which participation is implied to be necessary for acceptance in a house, and which encourages the ingestion of substances, namely food. The CRC would be bound by this policy, and its guidelines, to convict the hosts of the dinner of hazing, even if they felt no foul play had occurred. Making a law broad does not give an enforcement body a lot of latitude, as you suggest, it gives them a lot of obligation. It means that now, every student is obligated, under your policy (the last section in the policy itself) to report anything that could possibly be construed as hazing (such as all events which meet your suggested criteria, which I have already stated include rotation dinners) to the Counseling or Diversity centers. Frankly, if I reported everything that might offend a pre-determined group of students or might make someone feel uncomfortable as a continued participant in a social group, I'd have to spend all day reporting.

For example, religious zealotism bugs me. I feel uncomfortable being in social groups with people I'd call religious zealots. Religious zealots (pretty much by definition) would prefer that their social groups be exposed, at least, to their religious views. Since we all agree that it would be wrong to segregate the houses along religious lines, either I, any religious zealots at Caltech, or both will experience minor discomfort at some time. This is to be expected. There is some minimum level of discomfort (as someone pointed out in the meeting) that we as a society must accept.

We spent a great deal of time in the meeting today debating over whether an event pre-approved by an administrator could come back to bite a student. This debate in my opinion is a symptom of a bad policy. It presupposes that students must seek

approval before any event. Again, I realize that by laying out a policy, you're trying to help students realize when they might be hazing, in which case they should ask, but instead what you've done is lay out an extremely broad policy which you then mandate be enforced. For example, immediately at the end of rotation, many houses take their new initiates out to dinner. It's usually Sunday, so there's no board dinner, and everyone's hungry. This event not only is an implied requirement for social inclusion (at least immediately, since you can't be included in a group if you've never yet been present), but it implies the necessity of ingesting substances (food, which

could be offensive if it's food you disagree with on moral (such as vegetarian) or religious grounds), and it deliberately interferes with adequate time for study, since it's a Sunday night, when everyone's doing homework. Under this policy, a frosh disgruntled with their house assignment could charge that house with hazing, and the CRC, bound to enforce the letter of your policy, would be bound to find that house guilty. The house's only defense, as you repeated over and over at the meeting, would be to have sought approval beforehand from RAs, ACs, the MOSH, or Deans.

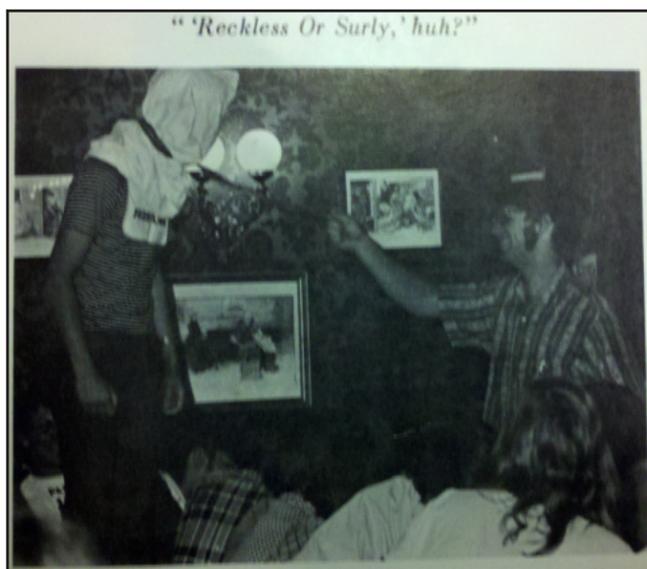
You have in essence created a system in which all social activities must be approved by administrators beforehand, since most every social activity might be construed by someone who was sufficiently annoyed to have been hazing, and you've tied the hands of the enforcement body (CRC) which would normally have the freedom to decide whether or not the activity in fact violated the honor code. Furthermore, the individuals to whom we must appeal for approval readily admit that they fear approving things, and then getting sued. They have no incentive whatsoever to approve anything, ever. Neither I, nor the majority of the student body feel that the administration, especially the deans and ACs, have our happiness at heart. In a poll of the student body (from the November 17th Tech), students had an exceptionally poor opinion of Kiewiet as a member of the support network, and he oversees all of the people from whom we can seek permission, as Undergraduate Dean. This approval system creates a dependency and a barrier on doing interesting and inclusive activities that will stop spontaneous or large-scale events in their tracks, and likely kill any tradition involving large groups, lest someone ever in history be offended.

Once again, I am a huge fan of the honor code. I feel that hazing is a subset of honor code violations. I would like, in my own humble opinion, a hazing policy that defines hazing, states explicitly that hazing is a subset of honor code violations, and that the hazing policy is not a separate policy to be enforced, but rather should be handled by the usual methods of honor code enforcement, which at this time is the CRC.

Having an explicit list of policies has never been Caltech's way. Universities, like Washington University in Saint Louis, that do tend to have complex legal systems, books of policies, and internal lawyers for student infractions. I do not want us to go that way.

I want us to live under the honor code, and to live by it. I want it enforced, and I want it enforced by the appropriate bodies, not by the Deans.

Sincerely,
Isaac Sheff



- Provided by Isaac Sheff

Caltech Couture: Flip flops aren't functional footwear

ALEX LANGERFIELD
Staff Writer

Living in Southern California has allowed me to hear the sound of flip flops all year round. It seems as though almost everyone here has at least one pair of flip flops and there are some who practically live in them. They are no longer solely shower slippers or the beach shoes. They are sole source of footwear for some.

In some ways, this is pretty understandable: there are plenty of pros to flip flops. For example, they are very easy to wear and take care of, in warm weather they keep one's feet from sweating, and certainly smelly feet aren't an issue when one wears flip flops all the time. And yet, sometimes I wonder. How far will these shoes (if you can even classify them as "shoes") go?

Flip flops have their roots in Japan (they were present in other countries, but the most traditional version that we see today came from Japan). Their popularity spread as war veterans began to return home with these strange shoes from overseas, and it was probably in Australia that they first became a major hit. There, they were often called "jandals", an homage to their country of origin. The 1956 Melbourne Olympics officially made the sandal a footwear staple when the entire Aussie team showed up in them and showed them off. Now these flat little things with loops, which

make obnoxious sounds with every step, are everywhere and they come in an uncountable number of varieties. There are the two-dollar flip flops, which honestly make the most sense to me.

There are also the two-hundred-dollar jewel-encrusted stiletto flip flops.

Seriously?

They're not "fancy shoes" because they're still flip flops and yet they cost as much as a nice pair of heels!

There are also athletic flip flops, squishy flip flops, flip flops with built-in can openers (alright, that's actually very practical). There are hemp ones, leather ones, rubber ones, plastic ones, fabric ones. You get the point.

True, people have found many ways to wear them. Some Techers have even brought them as their only pair of shoes on House Ski Trips! Yet, despite their seeming versatility and prominence in the footwear world, they are rarely accepted wherever the slightest formal or respectable look is required. A women's US college sports team got in the news a few years back for wearing *fancy* flip flops to a reception at the White House where they met the President.

Speaking more practically, flip flops are simply dangerous when worn constantly. They give no arch support so the arch is prone to collapse on itself with every step. This is called overpronation and leads to flat feet, which are a major

pain. A collapsed arch puts strain on the ankle, which in turn may put strain on the knees, the hips, and ultimately on the back. Extra strain on the joints may cause overuse of tendons, which can lead to tendonitis. Not sounding so benign any more, eh?

To add on, people tend to keep their toes bent inwards when wearing flip flops. This may be an attempt to keep the sandal on the foot, but whatever the cause it means

do the job of normal shoes. I myself a pair "orthopedic" flip flops and, though they are oh so comfortable to stand in, I can't walk more than a few blocks on concrete before it gets uncomfortable. The beach is a whole other story.

But hey, you might argue, humans have walked barefoot for ages and we evolved for thousands of years without any shoes, which clearly shows that barefoot walking isn't bad for us. Therefore, since

difference between going barefoot and rocking flip flops: the straps.

With each step, one involuntarily crunches the toes a bit to prevent the flip flop from falling off. Putting arch support questions aside, the toe crunching, as mentioned above, prevents the lower legs from ever relaxing during the stride and puts undue stress on the ankle area. Talk about shin splints, tendonitis, and a whole host of other nasty ailments!

Don't get me wrong, though; I'm a big fan of flip flops. But there's a time and a place for everything. I love flip flops in the shower, on the beach, running to the printer, and so on. However, when I see girls wearing a nice evening dress with flip flops, or guys doing a presentation in a suit and tie and flip flops, I get confused and sometimes outright frustrated. Can flip flops even be considered proper shoes? They do not support the foot. In fact they harm it.

They aren't commonly accepted as "respectable" footwear. They are a hassle to drive in.

What's more, they are so hazardous in so many situations that warnings are put up against wearing them. Saddest of all, they may even worse than going without shoes altogether!

So it should be pretty clear: the next time you're sauntering down the street in those flippy floppies and think about hitting up a store that mandates "no shirt, no shoes, no service," think twice. You might just be breaking the rules.



- us.123rf.com

that the foot rarely has a moment's rest, which increases stress. This also leads to a shorter stride, which causes the characteristic waddle of major flip flop wearers.

True, there are brands that claim to make flip flops with arch support, such as Rainbow. They not only fit to the shape of the foot, but they also have a thicker sole below the arch. Nevertheless, they still don't

wearing flip flops is practically like being barefoot, they can't really be that harmful.

First, I'll say that today even walking barefoot may not be healthy because in most cases you'll be walking barefoot on concrete. The main benefit of barefoot walking is made apparent when the soft ground molds to the shape of your foot. Next, there is one big

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*: Okay, that was the price four years ago. Still, not a bad deal for a few minutes of your time.

The *Tech* sits down with Associate Dean Green

LIZ DECOLVENAERE
Contributing Writer

Dean Green's office sits nestled away in the southeast corner of the Center for Student Services, decorated with tasteful knick-knacks of an obviously multicultural influence. They're

had faced her own share of students in need.

When she became a dean in 2009, Hunt immediately looked to Green as a model for how to be supportive and engaged in student life as a dean. "She doesn't take care of students just 9-5. She's sincere about wanting things to be great

desperate to fill. Though she took the job originally on a temporary basis, after a nationwide search for a permanent employee, the institution decided to keep their current set of Deans. "It was good luck." Green remarked, while thinking back on the events.

Even more unexpected, though, are the student-related changes she's faced.

When Green first arrived at Caltech in 1989, it was the first year the freshman class broke 30% women. Previously, the status quo for females had been 15% or fewer. Before the Women's Center opened in the Center for Student Services, Green was often the only resource for female students having gender-specific problems. She remembers the first few

She believes the awareness of mental health issues, both on an individual level as well as with regards to the undergraduate population generally, has increased.

"I can't judge whether it means more people have more problems or just that people are more... willing to seek help," Green says, while pondering the biggest changes during her tenure at the institution.

"Parents are much more involved in the lives of their children... sometimes parents just call to consult... a parent might call saying they're really worried, asking about the resources on campus available to help their child."

She believes strongly in the power of the counseling center, an oft-spurned resource.

Green says a visit to the center could benefit many students. Still,

But her career was missing something.

Her boss, a man who'd formerly been the Dean of Students at Purdue University, helped her carve out a new strategy. "You really might want to think about going back to graduate school," he told her, and offered assistance in finding her an internship as Dean at Purdue. She remained there for four years, gaining valuable education and experience as she both worked as an intern Dean and finished her graduate degree. "A lot of what we do is individual work with people," she said. "You can study and read books, but the opportunity to be with other people who have experience and to learn from them as role models was really valuable to me."

But Green had no intention of staying in Indiana forever, and the pleasant weather and relaxed atmosphere of California had begun to beckon. Whittier College was her next stop, and would become her permanent home for the next eleven years.

Personally, Green says she is incredibly satisfied that her final move was to Caltech. She's pleased both with the individual students she's helped and the programs she's helped to found.

When asked, she says one of her biggest accomplishments was helping (former) Undergraduate Dean John Hall and Vice Provost Melany Hunt develop the freshman advising program. Originally, students entering Caltech were assigned advisors semi-randomly with preference to their intended majors. According to Green, "some people want to do it," and some faculty do not, which resulted in randomly sub-par care for new students.

Green, Hall, and Hunt gathered a group of faculty members particularly interested in freshman and figured out a new system, whereby advisors are not only enthusiastic about their charges but are well-informed about how to handle the specific problems freshman may face.

Additionally, she helped found the Conduct Review Committee (CRC) in 1999, to apply the honor code to non-academic situations that Caltech would otherwise remove from student involvement. Previously, the Deans or the Director of Residence Life (a position that no longer exists at Caltech) would handle such cases, though on rare occasions the BoC handled non-academic violations. "While we made fair and thoughtful decisions during those earlier years," Green said, "the contributions of the students, faculty and administrators on the CRC have been excellent and have resulted in outcomes that reflect the ethos of Caltech."

She's here for the long haul, now. When asked about life after Caltech, she laughed, remarking "I think I will work here until I retire... and I don't have plans to do that any time soon!"

“Personally, Green says she is incredibly satisfied that her final move was to Caltech. She's pleased both with the individual students she's helped and the programs she's helped to found.”

mostly small gifts, given by former students in appreciation of her work. The woman inside seems ordinary enough, armed only with a welcoming smile.

But her typical workday is atypical by almost any other college standard. Students coming in to ask for permission to buy liquid nitrogen, build a zip line across campus, or to add *just one more class* to their 63-unit workload don't phase her.

After all, she's been dean for longer than most of the students she advises have been alive. Dean Green is a woman with a near endless supply of equanimity. And Caltech's quirks? Just another part of the charm of the institution she loves to work at.

Barbara Green Volckmann has been working as Associate Dean of Students at Caltech for 22 years. Dean Green, as the majority of students address her, has weathered four changes of the Undergraduate Dean and countless administrative edits to her position.

But what exactly is an Associate Dean?

"That's a good question," was Dean Green's first reply, echoing many administrators at Caltech with traditional-sounding, yet ill-defined jobs. But 22 years has given her a lot of time to find her niche. She works closely with the Undergraduate Dean, currently Rod Kiewiet, to supervise a number of jobs without being fully in charge. Instead, she manages things that the Undergraduate Dean can't, or doesn't have time to, do. Green feels her job is to do one-on-one work; the sort of work that she isn't allowed to elaborate on.

Associate Dean for Graduate Studies Felicia Hunt, however, offered her viewpoint on Green's work with the students. "I would refer students to Dean Green's office. I always knew that was a safe place for them to go, because they always had such a good experience, and so much of that was about Barbara's style"

Hunt arrived at Caltech in 2007 to work at the Women's Center, and

for you because she really loves Caltech and loves the students."

But there are more public jobs in Green's life, too. The Associate Dean is also the Co-Chair of the Conduct Review Committee (CRC), a job Green has been more than happy to be involved with. Additionally, the Associate Dean is usually involved in handling the decisions handed up by the Board of Control (BoC) regarding academic honor code violations. Kim Furuya, Dabney House's BoC rep from 2009-10, commented that Dean Green is "super reasonable and fair." Dean Green has seen hundreds of BoC cases since the beginning of her term, and while she cannot comment on the specifics, she continues to believe that the system "works."

The system, though, is somewhat unusual among universities. While claims of self-governance within student bodies are popular among elite institutions, Caltech, through the house system and the various honor-code related committees, achieves that ideal. But the system can be difficult for administrators to navigate, containing two different student leadership committees (Interhouse Committee and The Associated Students of the California Institute of Technology) in addition to the BoC and CRC.

Green knows this better than almost anyone, but wasn't so keenly aware of the challenges she would face when she first began working here on September 1, 1989. She'd been a dean before, at Whittier College for 11 years. But a new President of the college instituted a change requiring that the Dean of Students be a faculty member, leaving Green, a career administrator and counselor, out of a job.

In her search for a new job, she reached out to her contacts, which included Jim Morgan, then the Vice President of Student affairs at Caltech.

Luckily, the previous Associate Dean had recently been promoted; leaving a vacancy that Caltech was



Dean Green arrayed in graduation attire for the commencement of the Caltech Class of 2010

- Dannah Almasco

years clearly: "When there were very few women, it was uncomfortable for a lot of them... [The ratio] made the social interaction awkward. Women were really pursued, and I remember them telling me it was hard to find very many female friends. They were just too spread out." Now the undergraduate population is roughly 45% female, a major change that she is very happy to see.

While it wasn't all smooth sailing, Green believes having women on campus is a positive aspect, providing part of a more normal social environment that Caltech students are often lacking.

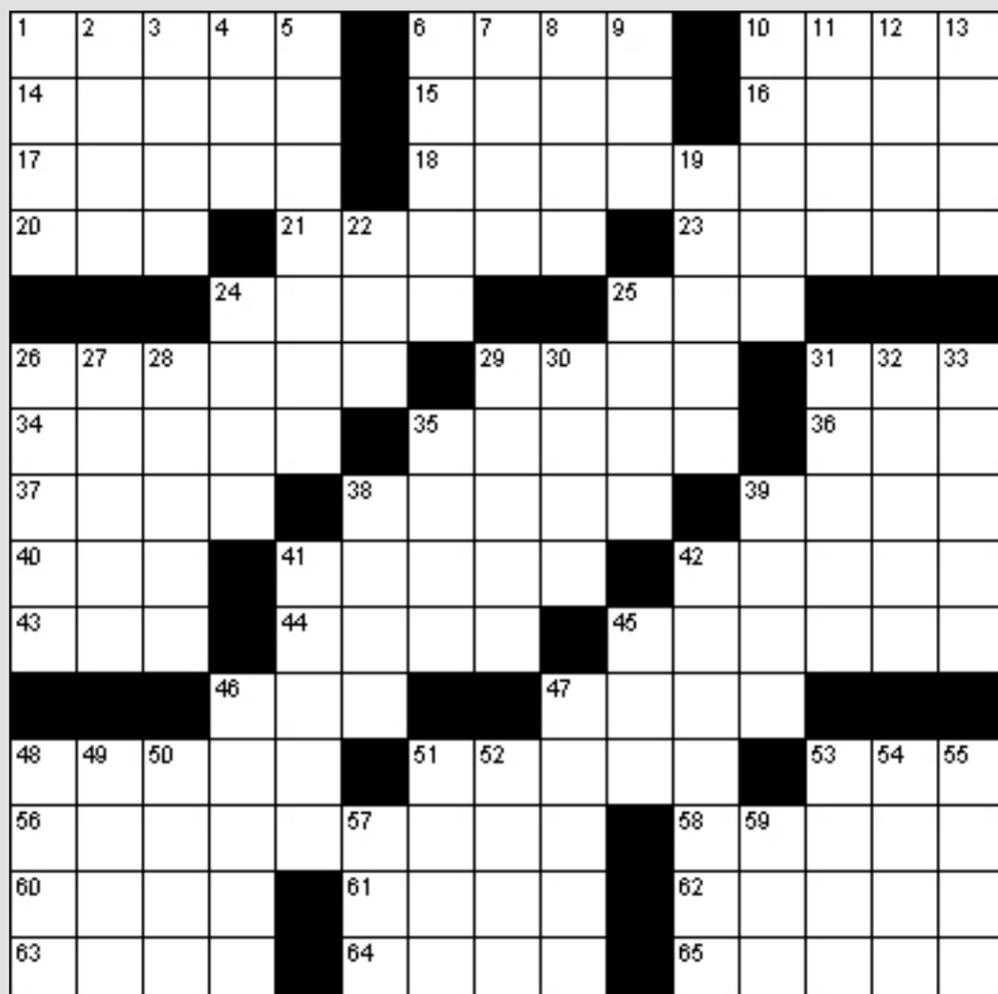
Overall, the issue of student mental health has also changed. Working primarily with students in one-on-one circumstances, Green is prohibited from commenting on the majority of her accomplishments, but is proud of the overall progress.

she's always willing to help those who come to her instead.

Her choice to become a career Dean was somewhat intentional. Green's particular road starts with an undergraduate degree in Government from Connecticut College, and a common lack of direction. Her first instinct was to become a high school guidance counselor, and to that end she acquired a Masters in Counseling at Columbia University.

To test the waters she then started as an intern counselor at a local high school, but found "that while I liked the students, I didn't like the bureaucracy or structure of a high school." Instead, she moved to a very small college in northern Wisconsin, working in the admissions office. Almost immediately she started a separate project to set up a career planning and placement office, something the school lacked.

Today's Puzzle: Crossword



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

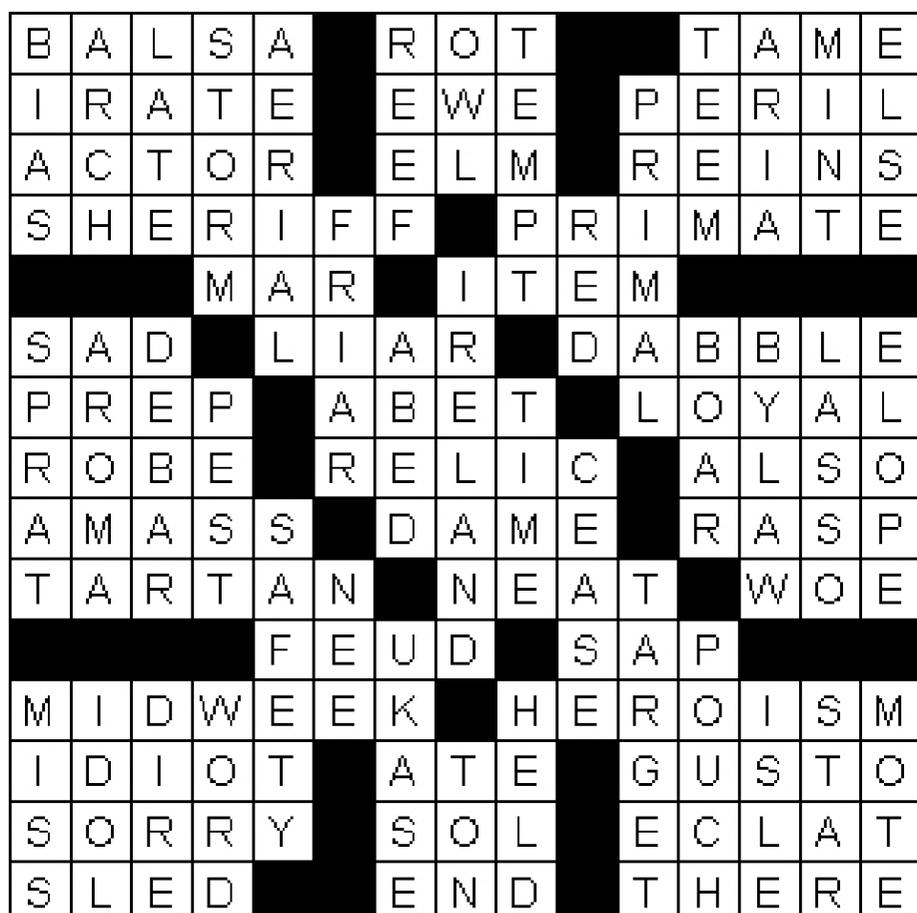
Across

1. Cetacean mammal
6. Part of the forearm
10. Furry mammal
14. Competitor
15. Gaseous element
16. Wheel shaft
17. Wear away
18. Soldier of ancient Rome
20. Novel
21. Computer peripheral
23. Observed
24. Heaviness
25. Metallic element
26. Powerfully persuasive
29. Redact
31. Type of tree
34. Not together
35. Long-necked wading bird
36. Compete
37. Morass
38. Famous boy wizard
39. Swerve
40. Finish
41. Large bovid
42. Consignment
43. Pasture
44. Cricket term

Down

45. Hurry
46. Female deer
47. Ebbs and flows
48. Cover
51. Herbivorous quadruped
53. Acquired
56. Nauseating
58. On edge
60. Additional
61. Tournament
62. Frog-like sound
63. Cervid
64. Curve
65. Bird of prey
19. Join together
22. Frequently
24. In this place
25. Diminutive
26. Dromedary
27. Speak up
28. Irish police force
29. Mistake
30. Sew
31. Obviate
32. Blockade
33. Water bird
35. Lawsuit
38. Bee house
39. Ornamental jar
41. Cubicle
42. Recurrent series
45. Belonging to him
46. Try to prevent
47. Tendency
48. Toboggan
49. Unit of play in golf
50. Alleviate
51. Trust
52. Portent
53. Rum and water
54. Ellipse
55. Youngster
57. Weep
59. Epoch

Answers to last week's crossword from [puzzlechoice.com](http://www.puzzlechoice.com)



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

Clement reviews Keith Jarrett

CLEMENT LACROUTE
Staff Writer

It's very hard to keep up with Keith Jarrett's CD production. He's a very prolific recorder, performing both live and in the studio, sometimes as a soloist and other times as part of a trio alongside double-bassist Gary Peacock and drummer Jack DeJohnette. Jarrett is one of the greatest jazz pianists of all time, and he might even be the best one alive. He worked with jazz legends Art Blakey and Miles Davis in his early days before launching an immensely successful career under his own name, first with a quartet including double-bassist Charlie Haden, and later with the aforementioned trio.

But what probably gained him his wider audience are his live solo performances. When Keith walks on stage, sits at his piano, and plays, neither he nor the audience knows where the melody is going to take them. These fully improvised concerts are both demonstrations of Keith Jarrett's virtuosity and of his own life experiences. The Köln concert (1975), a masterpiece that breaks down the frontiers of jazz, pop and classical music, is a perfect example of this. It is the best-selling jazz piano record to date and also a magnificent soundtrack to Nanni Moretti's movie "Caro Diario" ("Dear Diary"). One of the key features of Jarrett's performances is the feeling of freedom that arises from his music.

He consistently crafts pieces during the course of which you truly begin to expect the unexpected.

Rio is Jarrett's last live solo record, recorded live in Rio on April 9, 2011 and released in 2011. This two-CD, 90-minute-long effort is both the most demanding and the most rewarding work that I have heard from him.

There is indeed a great sense of freedom all throughout the record, with music that ranges from dissonant free jazz to soul music and classical piano. And it's the most dissonant and bizarre parts that always lead to the most beautiful melodies, in a very delicate and subtle way. The record is an accurate rendering of what the audience must have experienced on the day of performance, though there can be no match to hearing it live. One can feel the increasing joy of the crowd as Rio slides from one piece to the next, and witness the way the pianist weaves his melodies.

Of course you could always skip directly to part V, VIII or XI, as these contain moments that stand out as highlights of the album. And yet so much of their greatness is derived from being part of a much greater whole, and in the end it's really the experience of taking this journey with Jarrett that makes the record a very unique one. In that regard, it's a little similar to driving in the Death Valley: you don't know what to expect around each turn of the road, but you can be pretty sure you're going to be amazed.

Caltech baseball team almost wins game, loses two instead

AMOL KAMAT
Sports Editor

The Caltech baseball team opened their 2012 season with a double header against Pacifica University. The Beavers came away from the affair with a pair of losses but put up a good, entertaining fight.

In the first game, the Gladiators shut the Beavers out for the first four innings, allowing no runs or hits while scoring four, themselves. Then, in the bottom of the fifth inning, Caltech's Brian Penserini singled to score Nick Robertson. Captain Eric Schropp followed suit with a single that scored Blaine Matulevich, bringing the score to 4-2.

Alas, with hope on the horizon, the Gladiators scored two runs of their own in the sixth inning and added a final, seventh run in the seventh inning, bringing the final score to 7-2.

Clearly, the Beavers just needed a warmup, as they came out swinging hard in the second game, determined to get the win (spoiler alert: they lose). Caltech took a 1-0 lead in the first inning, but soon saw that lead disappear, much like my hotdog did by the second inning.

The third inning saw hope fading like a baseball hit so hard you can't really see it until it finally hits the ground near Cahill and all the outfielders run towards with crazed expressions of grief upon their sweaty, sunburned faces.

But, I digress. The Gladiators took a 3-1 lead in the top of the inning and appeared to be gliding towards another victory. But, their celebrations were premature and probably silly and uncoordinated, for Caltech's Daniel P. Sexton hit a two-run triple to tie the game and Brendan Sheehan hit a one run single to take the lead. It was pretty epic.

Once again, Pacifica took the lead with two runs in the fourth, and the Caltech fans wondered if the Beavers could really maintain their scoring ways. Indeed, they could, as they responded with a five run inning, taking a 9-5 lead. Highlights included Jerome Skelly's first NCAA RBI after getting hit by a pitch with the bases loaded (that's the definition of sacrificing the body, kids) and Brendan Sheehan's two run double.

Unfortunately, the Beavers would not score again, and the Gladiators slowly chipped into their lead, ultimately scoring a tenth run in the final inning to officially put the Beaver's miracle game to an end.

Despite the loss, the game was pretty fun. It felt good to cheer for a winning team (which, I realize sounds stupid, but you know it's true). If the Beavers can keep up this level of play, they could very well win a few games this year. In which case, I call for a keg party on the pitcher's mound.

The Beavers take on UC Santa Cruz in a double header next Saturday.



Daniel Sexton hits a two run triple in the bottom of the fifth in the Beavers' second game against Pacifica. I told him I would put him in the paper if he hit a home run, but this was close enough

- Amol Kamat



The Caltech swimming team celebrates its seniors. One would think swimmers would celebrate in a pool, and not on solid land, but what do I know. Nobody invites me to parties.

- gocaltech.com

Weekly Scoreboard

JANUARY 21, 2012

MEN'S BASKETBALL
VS. REDLANDS
L, 74-41 FINAL

WOMEN'S BASKETBALL
VS. REDLANDS

Caltech concludes home schedule; celebrates seniors

gocaltech.com

PASADENA, Calif. – The Caltech swimmers and divers finished their home schedule with a dual meet against Occidental. There were eight Beavers competing at the Braun Pool one final time on Saturday.

There were eight senior honored before the meet began as Peter Buhler, Adrian Chapman, Justin Johnson, Adam Khan, Janis Intoy, Caitlin Regan, Jessica Swallow and Tony Tong competed in front of the home fans the last time.

Johnson continued his solid season by winning both the one- and three-meter diving events. He won the three-meter competition with a score of 219.35 while

recording a score of 239.15 to claim first-place in the one-meter event. Teammate Ben Grabowski continued an impressive first season on the board with second place scores in each event as the duo combined to score 26 team points.

During the swimming portion of the men's meet Buhler enjoyed a first place finish in the 100-yard backstroke. He out-touched Occidental's Zach Condon 57.28-to-57.56 to win the event.

CJ Culpepper brought home a win for the Beavers by swimming the 1000-yard freestyle in 11:23.95. The first-year's effort was just 9.11 seconds faster than the Tiger's Alex Rand. Caltech's Christian Rivas posted a time of 22.57 in the 50-

yard freestyle to top his nearest competitor by .19 in the sprint race. Rivas and Buhler tied for top team point honors among Beaver swimmers with 13 each.

Regan concluded her home career with a pair of nice races in the 50- and 100-yard freestyle. She started her day with a second-place finish in the 50 (26.38) then followed that with a third-place finish in the 100 (57.03).

Marqueax Lopez gave the Beavers a solid swim in the 200 yard freestyle. The first-year finished second with a time of 2:11.34. Misha Raffie also brought home a runner-up finish and four points for Caltech by swimming the 100 yard butterfly in 1:09.61.

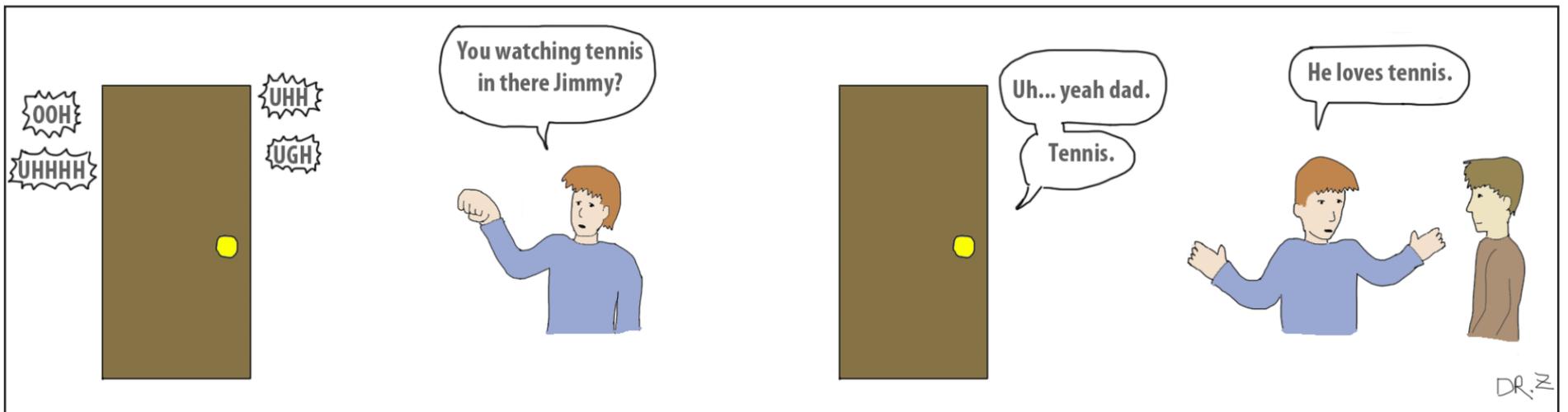
from gocaltech.com

LAS GUERRAZ DE LA MAFIA

POR DAVID GINOLA



Acquired Taste



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

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