



The California Tech

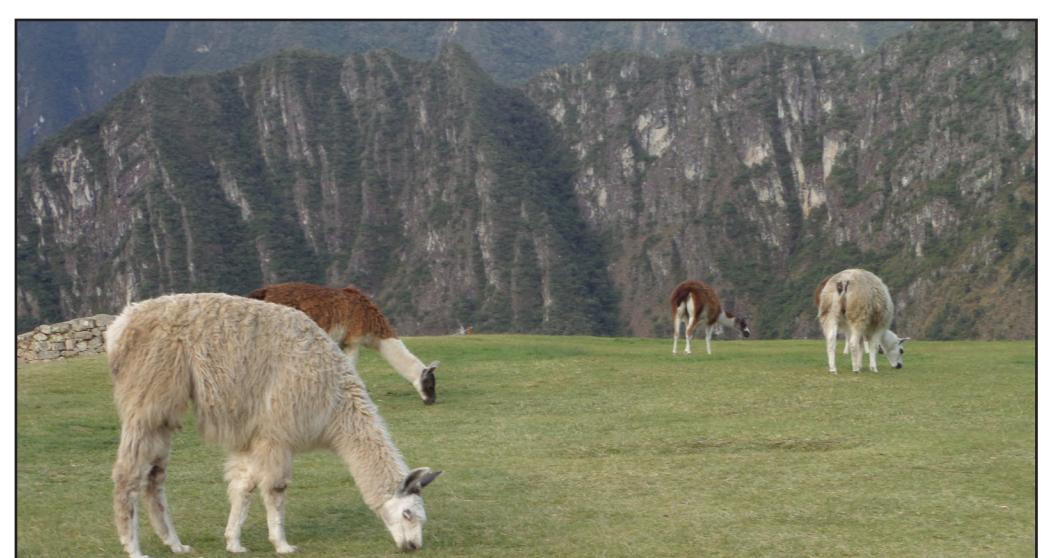
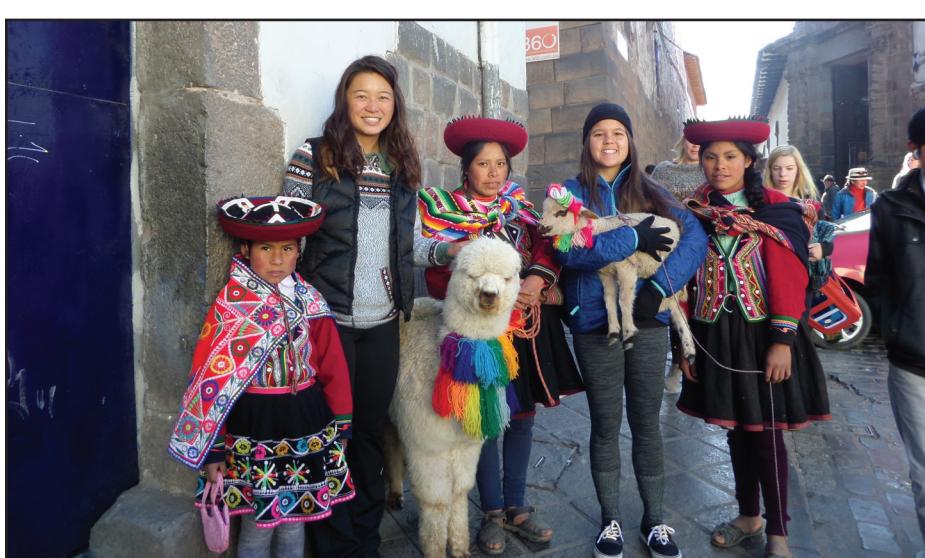
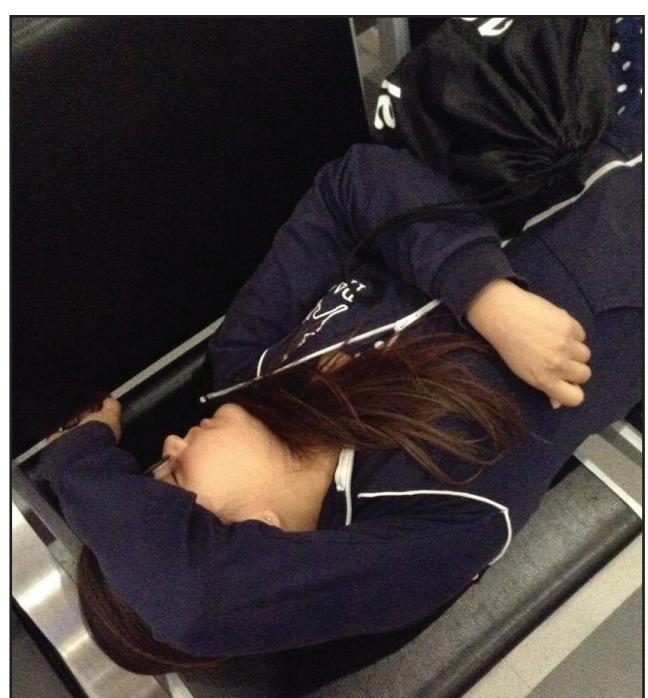
VOLUME CXX NUMBER 8

PASADENA, CALIFORNIA

TECH@CALTECH.EDU

NOVEMBER 14, 2016

Photoblast: San Pietro Travel Prize: Pop over to Peru



Photos from Valerie and Monica's trip to Peru. Story on page 7
Photos Courtesy of Monica Li and Valerie Pietrasz

IN THIS ISSUE

ANNOUNCEMENTS | PAGE 2
TOTEM ANNOUNCES PROJECT IDEA

OPINION | PAGE 3
VALERIE AND MONICA RECAP THEIR TRIP TO PERU

SPORTS | PAGE 5
NASSER AL-REYES NAMED PRESEASON ALL-AMERICAN

OPINION | PAGE 7
RAMYA DISCUSSES THE RESULTS OF THE ELECTION

ANNOUNCEMENTS

2

NOVEMBER 14, 2016

THE CALIFORNIA TECH

Caltech Y Column

CALTECH Y

The Caltech Y Column serves to inform students of upcoming events and volunteer opportunities. The list is compiled by Katherine Guo from information given by the Caltech Y and its student leaders.

Founded by students in 1916, the Y was organized to provide extracurricular activities planned and implemented by students as an opportunity to learn leadership skills and discover themselves. The mission of today's Y remains the same—to provide opportunities that will prepare students to become engaged, responsible citizens of the world. The Y seeks to broaden students' worldviews, raise social, ethical, and cultural awareness through teamwork, community engagement, activism, and leadership. More information about the Caltech Y and its programs can be found at <https://caltechy.org>. The office is located at 505 S. Wilson Avenue.

Ongoing and past programs hosted by the Caltech Y:

Alternative Spring Breaks: Peru, Costa Rica, New York, Yosemite, San Diego, San Francisco

Make-A-Difference Day: Hillsides Home for Children, LA County Arboretum and Botanic Garden, Children's Hospital Los Angeles (Coachart), Eaton Canyon, Lifeline for Pets

Explore LA: Lakers game, Next to Normal musical, Norton Simon Museum trip

RISE Tutoring program (an afterschool math and science-focused tutoring program that serves public school students between grades 8 and 12)

Upcoming Events

1. Thanksgiving Office Hours

November 23rd - 25th

The Caltech Y Office will be closed from 2pm on Wednesday, November 23rd until Friday, November 25th for the Thanksgiving long weekend. We will re-open on Monday, November 28th.

2. Exploring International Opportunities - Intl. Education Week

Wednesday | November 16th | 12:00 - 1:00 PM | Winnett Lounge

Have you ever considered doing research, volunteering or just exploring in another country? Caltech offers many opportunities for students to travel for research, advocacy, personal growth, and adventure. Join us to hear students from three of them - Astronomy's GROWTH project, Student-Faculty Research (SFP), and Caltech Y's ACT Award - share their personal stories of adventure, challenge, and reward experienced in Ghana, Iceland, and the United Kingdom.

Wednesday's lunch is one of many programs being coordinated by International Student Programs for International Education Week. Check out the others at: www.international.caltech.edu/programs/IEW

Lunch will be provided for the first 40 students.

3. Annenberg Photography Space - Caltech Y Explore LA

Sunday | November 20th | 1:45 PM | Beverly Hills | Free

Join the Caltech Y for a guided tour of Annenberg Photography Space in Beverly Hills! This space is supported by the Annenberg Foundation which also built Caltech's Annenberg Center for Information Science and Technology. Our visit will include a 30 minute guided tour of the gallery space and a 23 minute documentary on the exhibit in the gallery. Afterwards, you have free time to explore Skylight

Studios and the surrounding area. Read more about the space here: [Https://www.annenbergphotospace.org/](https://www.annenbergphotospace.org/)

Admission is free. Transportation is not provided but you can indicate on the signup form if you are willing to drive others. Please arrive at the Museum by 1:45 pm as our tour starts promptly at 2pm. Please contact Bianca Yang at byang@caltech.edu if you have any questions.

Address: Annenberg Photography Space – 2000 Avenue of the Stars, Los Angeles, CA 90067

Sign up here <https://goo.gl/forms/b6n899qL6uPz3Ixk1>

4. Pasadena LEARNS

Every Friday | 3:00 - 5:00 PM | Pasadena

Come volunteer at Madison and Jackson Elementary School! We are partnered with the Pasadena LEARNS program and work with their Science Olympiad team or do regular tutoring along with occasional hands-on science experiments. Transportation is provided. For more information and to RSVP, contact azhai@caltech.edu. Eligible for Federal Work Study.

5. Hathaway Sycamores

Every Wednesday | 5:30 - 8:00 PM | Highland Park

Volunteer at Hathaway Sycamores, a group that supports local underprivileged but motivated high school students. There are a variety of ages and subjects being tutored. The service trip includes about an hour of travel time and 1.5 hours of tutoring. Transportation is included. For more info and to RSVP email Sherwood Richers at srichers@tapir.caltech.edu. Eligible for Federal Work Study.

6. Save 20% on tickets to A Cinderella Christmas at the Pasadena Playhouse!

Dec 8th, 2016 - Jan 8th, 2017

The Caltech Y has partnered with the Pasadena Playhouse to bring you a 20% discount on tickets to the Panto performance of A Cinderella Christmas at the Pasadena Playhouse.

Panto at The Playhouse, now in its fifth year, has become a "must-do" holiday tradition for California residents. A Cinderella Christmas is the latest Holiday Spectacular presented by The Pasadena Playhouse and Lythgoe Family Panto in the style of the traditional British Panto. A Panto is interactive holiday fun for all ages, and the timeless tale of Cinderella will feature comedy, magic, dancers from 'So You Think You Can Dance' and contemporary music from Meghan Trainor to Justin Timberlake.

Save 20% on tickets with the code: CaltechY

<http://pasadenaplayhouse.org/Cinderella>

Beyond the Y

1. Union Station Dinner in the Park donations needed

Union Station Homeless Services is still in great need of canned food donations for their Dinner in the Park event. They will be serving a few thousand people at that event, so are asking for donations from their Thanksgiving wishlist.

This is a wonderful and important way to directly contribute this Thanksgiving. By donating canned goods, you will help to ensure that they serve as many people as possible!

Please visit their website to view their current Thanksgiving wishlist: <http://unionstationhs.org/wishlist/>

Caltechlive!

EARNEST C.
WATSON
LECTURE SERIES

Wednesday, December 7, 2016 | 8 PM

PLANET NINE FROM OUTER SPACE



At the outskirts of the solar system, beyond the orbit of Neptune, lies an expansive field of icy debris known as Kuiper belt. In this talk, Batygin will argue that the observed clustering of Kuiper belt orbits can be maintained by a distant, eccentric, Neptune-like planet, whose orbit lies in approximately the same plane as those of the distant Kuiper belt objects.

Konstantin Batygin

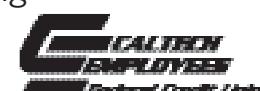
Assistant Professor of Planetary Science

- Biedebach Memorial Lecture -

Public Lecture | Free Admission | Free Parking

Caltech's Beckman Auditorium

www.events.caltech.edu | (626) 395-4652



Project IDEA. inspire discover express accept. Caltech's creative assignment for your week.

This project is inspired by Learning to Love You More (LTLYM, learningtoloveyoumore.com), a community-based web project created by Miranda July and Harrell Fletcher. LTLYM was a series of creative "assignments" for people to do, and the website was a space for participants to upload their response. It guided participants with directions and gave them an opportunity to create, perhaps while doing things they wouldn't normally do. By providing some direction through our assignments, we hope to promote creative expression in the Caltech community. We encourage you to think and talk about these prompts, even if you do not follow through with carrying out the work they suggest. We want to inspire

you to explore yourself and take another look at the people and world around you. Please send all responses and questions to totem@caltech.edu. Thank you.

Write an advertisement for a job that if existed and was offered to you, you would take with no hesitation.

Take a picture of a flower--a close-up of only one so it fills the view.

Make a list of 50 things you like.

If you could leave behind a building/site, what would it be like? Hospital? Museum? Amusement park? Feel free to include drawings.

San Pietro Prize: Peruvian Promenade

MONICA LI AND VALERIE
PIETRASZ
Contributing Writers

Hi there, this is Mon. There's a good chance that many of you have at least heard about the San Pietro travel prize, also known as "Caltech gives you money to explore somewhere on Earth" (no Mars exploration yet). This past summer, my friend Val (Hi, I'm Val!) and I embarked on an over two-week long trip to Peru, funded in full (minus souvenirs!) by this prize. We are here to tell you a little about the SanPietro Prize application process, our trip, and if you make it to the end of the article, useful life advice we wish we had earlier in our Tech careers.

When we applied for the San Pietro prize, we were close friends who knew each other well. We had been on the soccer team together for a year, the tennis team for two, and were in many of the same mechanical engineering classes. But what had really brought us together was the time we spent abroad in Denmark our junior year. When we got back from studying abroad, we immediately agreed to apply for the San Pietro -- but we didn't work on our application diligently enough, and a week before the deadline, decided not to submit it.

A year later, we were a little more organized, and submitted our application to travel to Peru. For the application process itself, we used the wealth of knowledge available in the FASA Office and attended the information session in January, where we learned about past trips and received great advice on the application process. But that's less exciting, so let's talk about our trip.

We (a bit too ambitiously) left the Monday after graduation after a weekend of frenzied packing and moving out. We were both sleep-deprived, in classic Caltech fashion, and fell asleep everywhere for the first couple of days: on our plane, in the terminal during our layover, waiting for our bus in Peru, and on the bus to our first destination. All together, it took over 28 hours to get from Pasadena to our first hostel.

After a not-very-long night of sleep, we awoke at 6am for our first major activity in Peru: a guided tour of the Islas Ballestas, a marine bird sanctuary in Paracas. Not only were the rocky islands themselves gorgeous, but we saw (and smelled -- there was a lot of bird poop!) thousands of birds of many different species that day. After the islands, we took a guided tour of the nearby national reserve, where we were taken to see flamingos, a beautiful red beach created by the erosion of a nearby pink mountain, and the museum explaining geology and history of the park. We ended at a small bay where we had our first Peruvian meal of ceviche and rice with seafood. This meal, and nearly every meal we had after, came with complimentary pisco sour, the national drink.

The next day, we deviated from our original itinerary and hopped on a bus to Huacachina. We had not planned to, but it was on the way to our next stop and cost next to nothing, so we decided to go for it. Huacachina is a small town built around a desert oasis, completely surrounded by huge sand dunes with one road going to Ica, the neighboring city. We were only there for a day, which we spent walking around the oasis, sitting in the shade, and eating ice cream. Just before sunset, we set out to climb the sand dunes for a beautiful view of the sunset. Climbing up the sand dunes was more physically exerting (Val would call it a "struggle") than we expected, but watching the sunset was worth the climb and getting sand in all our things.

After a few technical difficulties, we arrived at our next destination, Arequipa. We stayed in the middle of the historic downtown, and spent all our time there. We took a free guided tour of downtown, given by students at the local university looking to earn additional credit, improve their English, and earn some tips. We learned much about the city's history and nearby volcanoes, saw many important buildings, visited an alpaca museum, and had more local drinks. After the tour, we decided to try a crepe shop for dinner, to see what French food was like in Peru (and have a break from Peruvian food).

One of the highlights of our trip was our tour of Lake Titicaca. We began by kayaking from the mainland to the Uros floating islands. We shared a kayak, but struggled to kayak together in a straight line (the kayak had no keel or centerboard of any sort). After an hour and a half of paddling, arguing, and laughing at our ineptitude, we finally arrived at our destination -- but we took so long that we delayed the next portion of our tour! Once there, our guide explained how the lake reeds are used to build the islands and homes on the islands, as well as eaten as breakfast to strengthen one's teeth. Sadly, the people living on these islands may be the last generation, as younger islanders leave for the mainland and never return. Next, we took a motorized boat (no more kayaking) to Taquile Island. Most of the native women we saw were spinning yarn from the sheep that roam the island. The yarn is dyed and woven into textiles that are sold all over Peru--mostly to tourists like us.

We coincidentally arrived at our next stop, Cusco, the day of the Winter solstice. The festival, Inti Raymi, was exciting to watch, but also made it harder to find a hostel with open rooms. We joined the hundreds of spectators as marching bands and dancers walked along the center square. Along one of the side streets, dozens of vendors were selling very cheap street food and we ate our dinner here, hoping not to get food poisoning. Our stomachs were lucky this time.

On the day of our trip to requisite you're-in-Peru-go-to-Machu Picchu-trip, we were out of our hostel before the sun rose to begin our hike up to the monument. We had the option of taking a shuttle up the mountain, but we hiked instead, both to save money and see more of the mountain surrounding the ruins. The hike took an hour and was about 1,000m straight up stairs through the jungle. If you ever want to go see Machu Picchu, we highly suggest ditching the shuttle and making this hike yourself. As everyone who visits Machu Picchu says, we were awestruck when we first saw the ruins. But we didn't have much time before it was time to begin our second hike, up the

rest of the mountain for the best views of the ancient Incan ruins.

This hike was even more strenuous, and we were already tired from our first hike. Surprisingly, we were a couple of the more prepared people on the mountain: on the way up, multiple people used our bug spray to protect themselves from the mosquitos. We also brought plenty of water and food for lunch so we didn't have to pay an extravagant amount for them on the mountain. As we climbed, the view continued to get better, until we reached the top and stopped for our well-earned lunch and plenty of pictures before climbing back down.

Back at the ruins, we followed a self-guided tour that took us until nearly closing time, and then gratefully plopped down on the shuttle bus for the ride back down to Aguas Calientes to enjoy a large dinner.

The next morning, we got on the next train and then bus back to Ollantaytambo and Cusco to spend another night before flying back to Lima. We took a chocolate class through the Chocolate Museum, called from Beans to Bar. As the name suggests, we learned the process of chocolate-making, starting from the raw bean, and ending with us eating all the melted chocolate leftover from the class.

By the time we got to Lima, we had spent many hours on buses and seen and done many different things, so we were hoping to relax in Lima and soak in what it had to offer. Previously, we had run into a woman who explained that the safest place to stay in Lima was Miraflores, and we followed her advice, finding a hostel near downtown to stay. The next morning, we walked around downtown Miraflores and worked our way to the beach. However, Valerie was not feeling too well, and we called it a day so she could rest for the afternoon and evening.

We had been warned about getting sick before our trip, but despite our efforts to avoid it (drinking only bottled water and eating only food cooked in restaurants), Valerie had caught a stomach bug. As a result, the next couple days were shorter adventures through the various

parts of downtown, fueled by large amounts of ibuprofen and off-brand Pepto-Bismol.

By our last day, Valerie was feeling just fine, and we had extra money to spend on activities, so we went paragliding over Lima before packing up and heading to the airport. Fitting all our stuff with our new souvenirs and snacks for the long plane ride home was a challenge, but we soon found ourselves at the airport, waiting to go home.

Although we were used to spending hours together working on problem sets and had traveled together on weekend trips, our two and a half weeks in Peru was a whole new experience. We have learned life lessons about protecting ourselves and our things, being diligent so we don't get scammed, and what to do when the other person is tired, hungry, and not in the mood to socialize. Upon our return to the US, we also have a newfound appreciation for pizza, drinking tap water, and flushing toilet paper. And of course, we have many exciting stories to tell--the places we visited and sights we saw were all so fantastic in their own way that we could not pick a favorite.

We are both in the Bay Area now, and still good friends; Mon is a graduate student in mechanical engineering at UC Berkeley, and Val is a thermal engineer at Space Systems Loral (SSL) in Palo Alto. Lastly, Val would like to thank Mon for tolerating her grumpy moods, and the both of us would like to extend our biggest thanks to the FASA Office and Mr. Craig San Pietro for making this whole experience possible.

Tldr: The SanPietro Prize is an awesome opportunity to travel without having the financial burden of travel. Through the prize, we went to Peru! We explored cities, ate Peruvian food, made chocolate, hiked Machu Picchu, saw volcanoes, kayaked around Lake Titicaca, llamas.

NOMINATE YOUR FAVORITE PROFESSOR FOR THE FEYNMAN TEACHING PRIZE!!!

Here's your chance to nominate your favorite professor for the 2016-17 Richard P. Feynman Prize for Excellence in Teaching! You have from now until December 15, 2016 to submit your nomination package to the Provost's Office to honor a professor who demonstrates, in the broadest sense, unusual ability, creativity, and innovation in undergraduate and graduate classroom or laboratory teaching.

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

All professorial faculty of the Institute are eligible. The prize consists of a cash award of \$3,500, matched by an equivalent raise in the annual salary of the awardee. A letter of nomination and detailed supporting material, including, but not limited to, a curriculum vitae, course syllabus or description, and supporting recommendation letters should be emailed to kkerbs@caltech.edu or directed to the Feynman Prize Selection Committee, Office of the Provost, Mail Code 206-31, at the California Institute of Technology, Pasadena, California, 91125. Nomination packages are due by December 15, 2016.

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

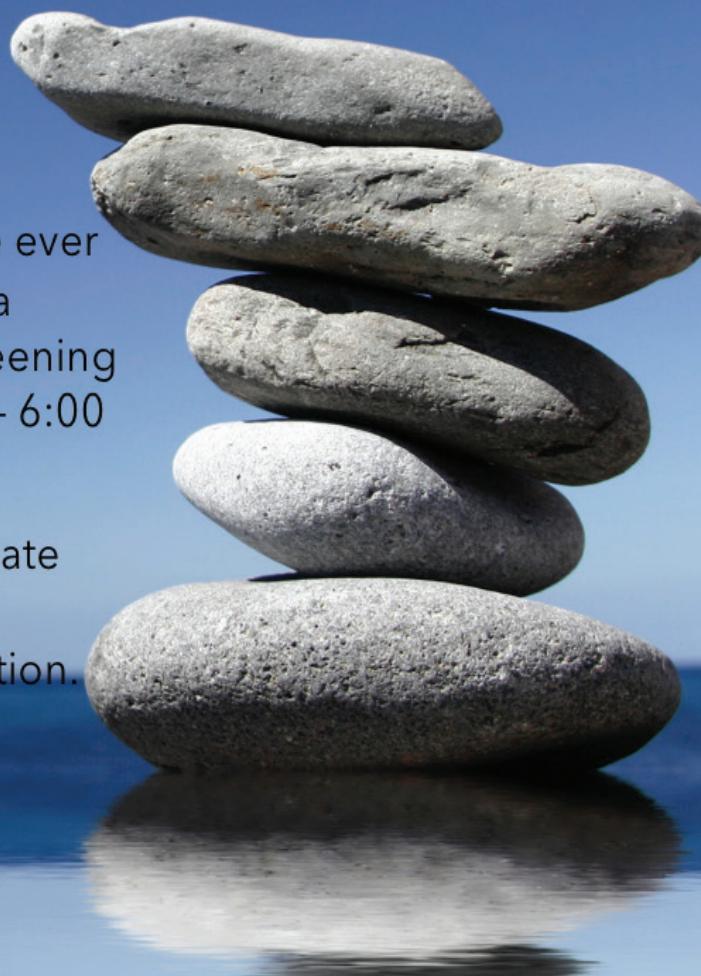
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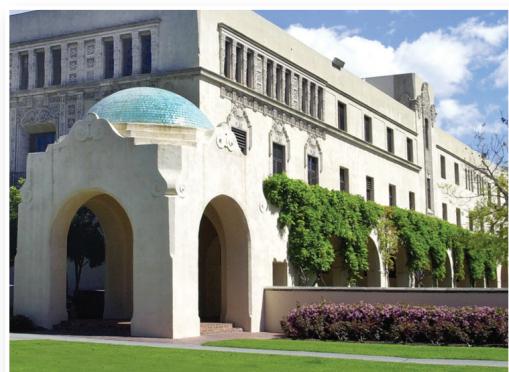
Mindfully RESILIENT

Mindfulness-based cognitive therapy is an 8-week structured program designed to reduce future depressive relapse. If you've ever dealt with depression before, and are not currently dealing with a depressive episode, you are invited to schedule a 30-minute screening interview for the Winter group. It will meet Thursdays from 4:00 - 6:00 beginning the second week of the term.

Mindfully Resilient is open to all currently enrolled Caltech graduate and undergraduate students. Call the counseling center at (626) 395-8331, or visit counseling.caltech.edu for more information.



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⁶² Smarter ¹⁶ Solutions. ⁵⁹ Proven ⁷⁵ Results.

Campus Office 515 S.Wilson Ave. (physical address) • Campus ATMs Winnett Center & Keith Spalding Building
626/395-6300 • 800/592-3328 • www.cefcu.org

Must qualify for CEFCU membership to join. Minimum \$5 deposit and one-time \$5 membership fee due upon opening any CEFCU account. Federally insured by NCUA.

Women's XC Posts Best Finish Ever at Regionals

GOCALTECH.COM

Actual Sports Content Editor

SALEM, Ore. (Nov. 12, 2016) – Caltech women's cross country recorded its best finish in program history at the NCAA West Regional, with freshman Sophie Walton (Emerald Hills, Calif. / Sequoia) earning All-West Region honors thanks to a 19th-place finish.

Results

The women's team beat four teams for the first time in program history, placing 15th in the field of 19 behind a two-minute improvement to the team's average time last year. The team's point total was its best since 1997, when just 10 teams raced, while Walton's finish was the program's best since Hall of Honor inductee Cailin Henderson placed 15th as a senior in a field of 68 back in 1996.

Walton ran among the top eight in the field early before falling back, but charged back over the final stretch to cross the finish line a full two minutes faster than the Beavers' top time just last year, while the rest of Caltech's lineup all came in under last year's third-ranked finisher despite the wet and muddy conditions.

"Sophie sticks her nose into every race she runs," Raphelson said. "She really helped to set the tone for a team that has improved tremendously. To be All-Region as a freshman is a big honor."

Freshman Jena Srikanth (Fresno, Calif. / Clovis North) was a key member of that lineup once again, running in second among Beavers and placing 72nd overall. Sophomore Melissa Gutierrez (Pico Rivera, Calif. / El

Rancho) shaved 15 seconds to improve on her place at last year's regionals by 21 spots, finishing in 84th, with classmate Cherie Jia (Auckland, New Zealand / Auckland

year, but saved their best for last. Michelle Marasigan also picked up several spots in the latter stages of the race to help us to our best finish in 20 years."

matching last year's senior-laden team's place.

"We found ourselves in a really challenging position after the start," Raphelson said. "It's a long race, with time to recover, but with such a tightly packed field we had to use up a lot of energy to work back in the muddy conditions."

All seven Beavers were running in the first regionals race as freshmen Simon Ricci (Chicago, Ill. / Latin School of Chicago), Tanner Moore (Roseville, Calif. / Oakmont), Sam Blazes (Seattle, Wash. / Sidwell Francis), Gianmarco Terrones (McLean, Va. / The Potomac School), Greg Gephart (Reno, Nev. / Robert McQueen) and Tommy Alford (Dublin, Ohio / Dublin Coffman) made up the bulk of the exceedingly young squad, with sophomore Rohan Choudhury (Cupertino, Calif. / Monta Vista) the only non-rookie. Ricci placed 67th overall with Moore (71st) and Choudhury (73rd) a mere two and four seconds behind. Blazes and Terrones snuck in under the 100-man mark in 91st and 95th, while Gephart fought his way to 100th after struggling with illness the past couple weeks. Alford

rounded out the squad in 109th.

"We had the tightest spread of the whole race, and that came with six freshmen and a sophomore,

Raphelson said. "That's a real positive to take away from our final race of the year."

Both squads matched their sixth-place finishes among conference opponents at the SCIAC Championships.



Why didn't they make like two changes to stand in numerical order? This is gonna bug me all day.

-gocaltech.com

Int'l Coll.) just six seconds behind in 87th. Sophomore Michelle Marasigan (Elk Grove Village, Ill. / James B. Conant) placed 96th, with freshmen Skye Reese (Concord, N.H. / Concord) and Michelle Zhao (San Diego, Calif. / Canyon Crest Acad.) running in 108th and 115th.

"Cherie and Skye in particular had really strong runs," Raphelson said. "Both have dealt with some nagging injuries this

The men's team stumbled through the mud at the starting line and was immediately squeezed to the back of the field. The Beavers found themselves in dead last at the 2-kilometer mark, but had moved up a spot by the 5k and ultimately made up 40 points on the 15th-place team while finishing just 20 points out of a three-team Northwest Conference group and striking distance of

Nasser Al-Reyes named Preseason All-American

GOCALTECH.COM

Actual Sports Content Editor

CHARLOTTE, N.C. (Nov. 8, 2016) – Caltech men's basketball senior Nasser Al-Reyes (Doha, Qatar / American School of Doha) has been named preseason All-America Honorable Mention by the Sporting News.

The 6-10 Al-Reyes earned Second Team All-SCIAC honors last season, in which he averaged a team-high 11.1 points, 7.5 rebounds and program-record 2.6 blocks per

game, ranking 16th in the nation. He also became just the second player in program history to garner CoSIDA Academic All-District recognition.

Al-Reyes and the rest of the Beavers opened 2016-17 with an exhibition game at Division I Long Beach State and will face another DI opponent in Cal State Fullerton on Friday, Nov. 11 before the regular season begins with the third edition of the 110 Rivalry in which Caltech hosts Occidental College on Tuesday, Nov. 15 at 7 p.m.



When the soft, velveteen fingertips of #44 grazed against Nasser's cool wrist, the whole world went black around him.

-gocaltech.com

Feist Named First Team All-SCIAC, Earns Brine Award



Don't land Feist first :O

Photo Courtesy of Michael Wong

GOCALTECH.COM
Actual Sports Content Editor

PASADENA, Calif. (Nov. 8, 2016) – Caltech men's soccer senior J.D. Feist (Richardson, Texas / Jesuit Coll. Prep) has been named First Team All-SCIAC and was recognized with the Brine Award of Distinction, the conference announced today.

SCIAC Release

Feist ended his career with an incredible 559 saves in 69 games, ranking 15th in Division III history and 20th all-time across all three NCAA divisions. The SCIAC leader in saves each of his four years, Feist recorded a career-high 179 saves on a .691 save percentage this season. This marks his second all-conference honor after earning Second Team recognition as a sophomore.

ANNOUNCEMENTS

THE CALIFORNIA TECH

ASCIT Minutes

Meetings are every week in SAC 13

ASCIT Board of Directors Meeting

Minutes for 11 November 2016. Taken by Tim Liu.

Officers Present: Andrew Montequin, Tim Liu, Bobby Sanchez, Kalyn Chang, Robin Brown

Call to Order: 12:06 pm

President's Report (Andrew):

- Present and accounted for
- Happy Veteran's Day

Officer's Reports:

V.P. of Academic Affairs (ARC Chair: Tim):

- Met with Core Curriculum Steering Committee and voted on the pass fail changes
- Student Faculty Lunch is happening on November 21st

V.P. of Non-Academic Affairs (IHC Chair: Bobby):

- Met with Joe Shepherd and Dean Gilmartin to discuss town-halls about Bechtel
- Library committee is being formed

Director of Operations (Sakthi):

- Met with DevTeam to talk about improvements to Donut
- Club steering committee met

Treasurer (Kalyn):

- Houses have been using inter-house joint event funding

Social Director (Robin):

- Movie night for *Fantastic Beasts and Where to Find Them* on November 18th
- Big I is happening on February 11th

Secretary (Alice):

- Nothing to report

If anyone has any questions or concerns about a section of the minutes please email the appropriate officer. We are happy to answer any questions.

Meeting Adjourned: 12:28pm

The California Tech

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Katherine Guo

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

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

The advertising deadline is 5 p.m. Friday; all advertising should be submitted electronically or as camera-ready art, but *The Tech* can also do simple typesetting and arrangement. All advertising inquiries should be directed to the business manager at tech@caltech.edu. For subscription information, please send mail to "Subscriptions."

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VICE PROVOST'S

OFFICE HOURS

Vice Provost, Chief Diversity Officer, and Professor of English, Cindy Weinstein, offers weekly office hours. This is an opportunity for undergraduate, graduate students, and postdocs to meet and discuss topics pertaining to the Council on Undergraduate Education; Caltech accreditation; the Staff and Faculty Consultation Center; Student-Faculty Programs; the Center for Teaching, Learning and Outreach; the Caltech Diversity Center; and the Libraries. There are four 15-minute appointments available per hour. Please sign up in Parsons-Gates room 104, or call the Vice Provost's Office at ext. 6339.

Fall term hours: 12:00-1:00 p.m.

Tuesday, Nov. 22

Wednesday, Nov. 30

Thursday, Dec. 8

Tuesday, Dec. 13

Join the Meditation Mob!

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President Trump: the Oxymoron

RAMYA DESHPANDE
Page Editor

I woke up on Tuesday morning with the searing optimism of Election Day: finally, a female president, sensible gun control, reproductive rights, immigration reform, equal pay, and clean energy policies! Little did I know that I would leave Chouse after midnight, my mind racing with the uncertainty of our country's future, as the monitor displayed the wild cheering of a crowd wearing bright red caps for their President-elect.

To Mrs. Clinton: I'm sorry. I cannot imagine the disappointment and heartbreak you must be feeling right now, as our country decided to take a giant step backwards and reject the promise of progress. Yet, you still managed to ignite hope within us, forcing a small smile as the crowd you addressed was on the verge of tears. "And to all of the little girls who are watching this, never doubt that you are valuable and powerful and deserving of every chance and opportunity in the world to pursue and achieve your own dreams," your voice cracked as you inspired us the day after your own dream was torn asunder. "Now, I know we have still not shattered that highest and

hardest glass ceiling, but someday someone will — and hopefully sooner than we might think right now." I swallowed a lump in my throat as I wondered: how? How can we have faith when an accomplished woman with thirty years of public service experience as a senator, First Lady and Secretary of State was passed over for a vulgar, racist businessman who equates his building endeavors to the sacrifice of a Gold Star family? How can we have faith when a man who repeatedly called his opponent "Crooked Hillary" and addressed her as a "nasty woman" during a presidential debate was chosen to represent our country?

Living in the safety of the bubble on campus, we may not be affected by the political turmoil around us. The first few days of a Trump presidency have seen explosions of racial violence that could be significantly worse than post-Brexit violence. Just after Thursday evening, more than 80 hate crimes were reported to the Southern Poverty Law Center. From South California fifth-graders chanting "build the wall" to a hateful note at Elon University saying "Bye bye Latinos," a large number of crimes occurred at schools (U.S. News). Recently, African American

freshmen at the University of Pennsylvania were added to a GroupMe chat inundated with racist messages, invitations to a lynching ceremony and references to Trump like "Daddy Trump" and "Trumpmeister for life," along with vulgar language used by the President-Elect himself (HuffPost). "Trump" was scrawled on the doors of a Muslim prayer room in NYC, graffiti in a Minnesota high school proclaimed "Whites only," "Trump" and "White America." A student at Shasta High in California posted a video of himself handing "deportation letters" to half a dozen students and a video by Trump supporters told immigrants that "the wolves are coming, you are the hunted." David Duke, the leader of the Ku Klux Klan, called election night "one of the most exciting nights" of his life and the Klan announced a parade in North Carolina to celebrate Trump's victory. It's almost as if Trump's victory has emboldened hateful ideologies — perhaps we should have gotten a hint when the President-elect called Mexican immigrants "murderers and rapists," was sued for housing discrimination, questioned the President's citizenship and

proposed to ban Muslims from entering the US.

Perhaps the most stinging aspect of the election was the fact that Hillary Clinton won the popular vote — yes, she had a projected lead of about 1.8 million votes over Donald Trump, more than Al Gore's lead over Bush or Kennedy's lead over Nixon. Unfortunately, elections in America are still decided by the electoral vote, devised by our founding fathers on the notion that the common people could not be trusted to elect their leader. This does however create a tiny sliver of hope — the electoral college will physically meet in December to vote for the next President — thus, it is theoretically possible for the electors to vote for Clinton, making her our President-elect. It's next to impossible, however; electors have almost always voted according to their pledged votes and the gap between Clinton and Trump is too much to be remedied by a few rogue votes.

So what can we do now? Please, please don't lose hope in our country. We have always prided ourselves as a beacon of opportunity, freedom and hope. We have no doubt gone backwards in this election, but please remember: it is the people

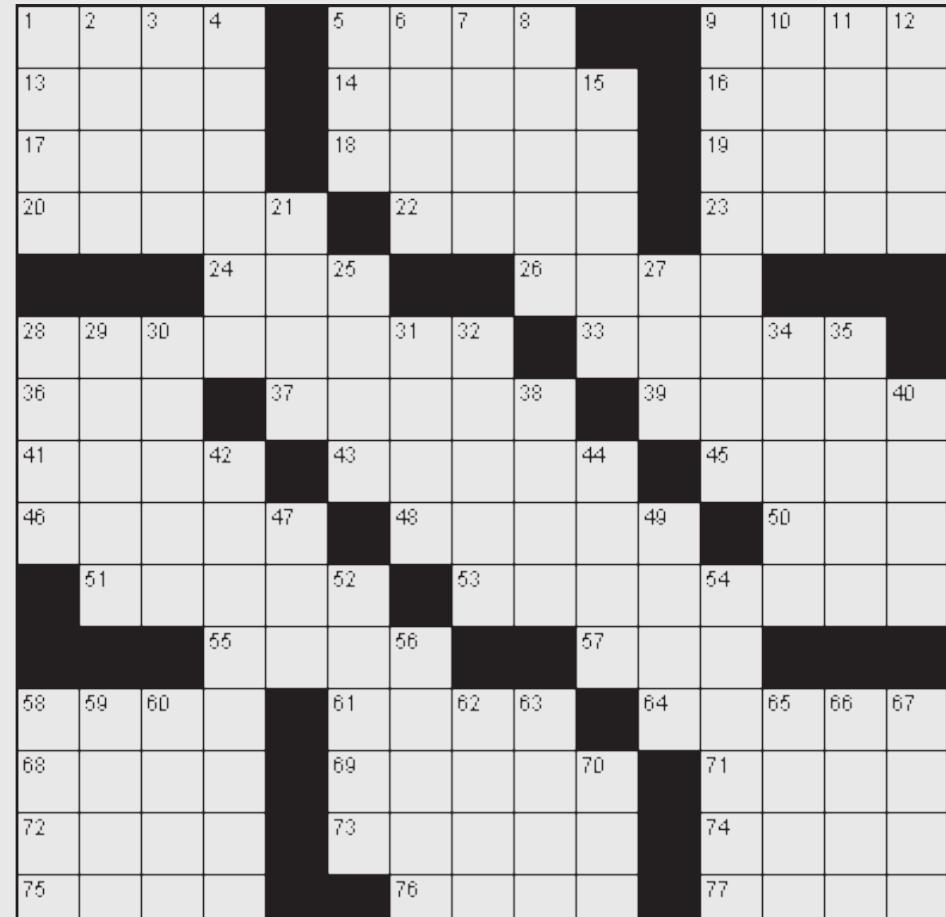
of a country that represent it, not just its leader. There are about 60,981,118 Americans who believe in progress, protecting minority rights, and upholding the ideals our country was founded on; they decry the vile and divisive rhetoric employed by our President-elect.

If you are one of these people, never let your voice drown out. It is your fundamental right to disagree and oppose and to effect change. Schools and colleges all over the nation are participating in protests against the Trump presidency and protestors have begun wearing safety pins as a symbol of solidarity with the minority groups that Trump so viciously victimized. A change.org petition with around 3 million backers so far is crying out for the electoral college to vote for Clinton. So wear a safety pin, sign the petition and oppose, oppose, oppose. Don't fall into complacency and don't discount the power of your impact — that is partially how we found ourselves in this situation in the first place. Perhaps the most meaningful thing we can do right now is to reassure the groups being targeted by Trump's rhetoric that we will always stand with them. Trumpism will never shatter the American dream — we won't let it.

Crossword

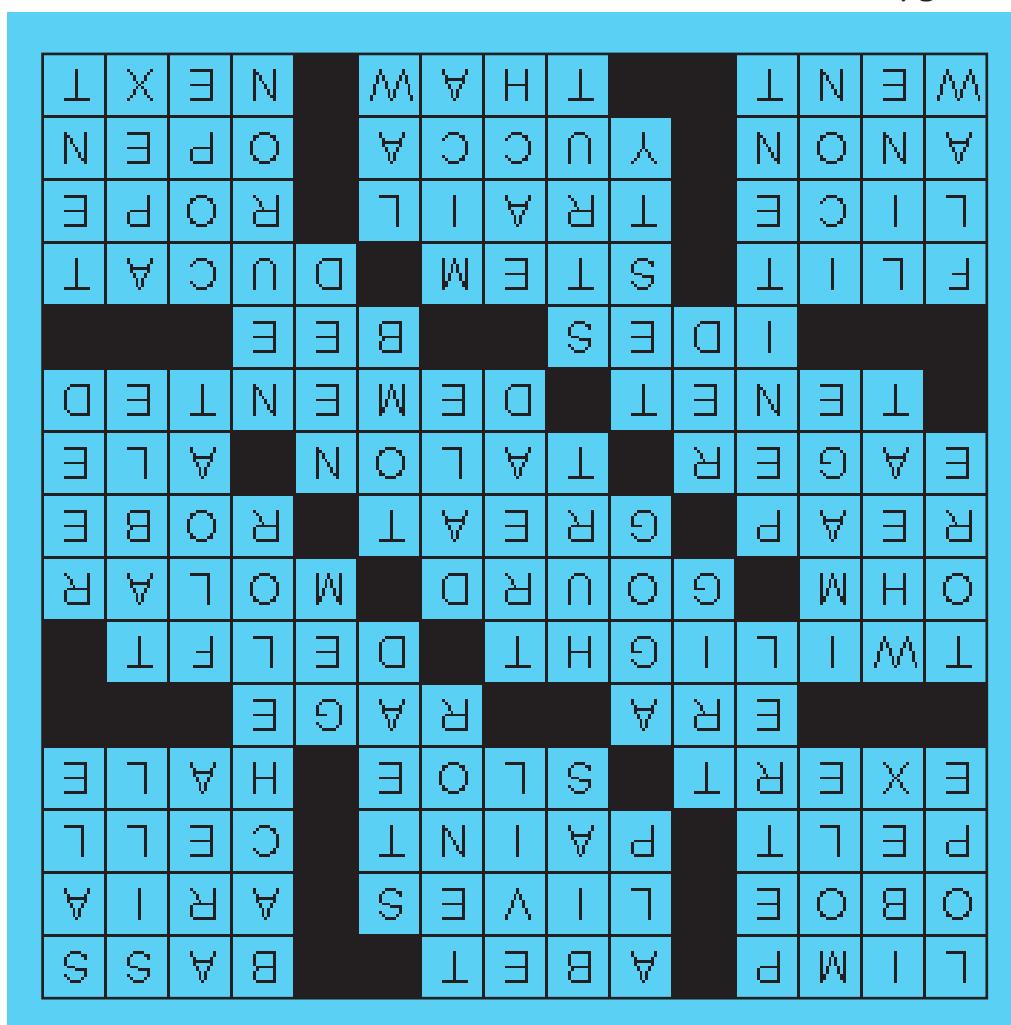
Across

- 1. Hobble
- 5. Assist in wrongdoing
- 9. Saltwater fish
- 13. Musical instrument
- 14. Exists
- 16. Song
- 17. Animal hide
- 18. Decorating material
- 19. A small room
- 20. Make a great effort
- 22. Wild plum
- 23. In vigorous good health
- 24. Epoch
- 26. Fury
- 28. Dusk
- 33. Style of glazed earthenware
- 36. Unit of electrical resistance
- 37. Kind of fruits with hard rinds
- 39. Tooth
- 41. Harvest
- 43. Outstanding
- 45. Gown
- 46. Showing keen interest
- 48. Claw
- 50. Beer
- 51. Religious doctrine
- 53. Crazy
- 55. Parts of the Roman calendar
- 57. Insect
- 58. Dart
- 61. Stalk
- 64. Formerly a European gold coin
- 68. Parasitic insects
- 69. Path or track
- 71. A strong line
- 72. At a later time
- 73. Evergreen plant
- 74. Overt
- 75. Changed location
- 76. Melt
- 77. Following
- 1. Smooth gait
- 2. Wild goat
- 3. Small burrowing mammal
- 4. Oceanic bird
- 5. Any high mountain
- 6. Prejudice
- 7. Malevolence
- 8. Singing voice
- 9. Unmarried man
- 10. Region
- 11. Part of a window
- 12. Brief occasion for buying at reduced prices
- 15. Lieu
- 21. Neat and smart in appearance
- 25. Highly excited
- 27. Jewel
- 28. Ripped
- 29. Cereal grass
- 30. Visual representation
- 31. Pain
- 32. Trample
- 34. Drift
- 35. Furniture item
- 38. Open river valley
- 40. Tall woody perennial grass
- 42. Feeling or expressing remorse for misdeeds
- 44. Burial chamber
- 47. Color
- 49. Requirement
- 52. Fractious
- 54. Nerve cell
- 56. Swagger
- 58. Defect
- 59. A telephone connection
- 60. Graphic symbol in computing
- 62. Apiece
- 63. Mineral
- 65. Manage
- 66. Peak
- 67. Collapsible shelter
- 70. Jurisprudence



-http://puzzlechoice.com

Answers to current crossword (pg 7)



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