



VOLUME CXX NUMBER 22

PASADENA, CALIFORNIA

TECH@CALTECH.EDU

APRIL 24, 2017

# Caltech participates in the March for Science

Noelle Davis  
Page Editor

Early Saturday morning, a thousand peaceful protestors gathered in front of Beckman Institute to kick off the Pasadena March for Science, which was organized by Caltech postdoctoral, graduate, and undergraduate students. A line to obtain the

event's neon orange T-shirts snaked across the entire field, emptying box after box, which were just as soon deconstructed and transformed into witty signs. After speeches from government representatives and educators, the crowd funneled onto the sidewalk and marched to Memorial Park, where the event culminated with

science demonstrations and more speakers.

Many were marching to fight for more respect for science from the government, especially concerning climate change. Some marched to engender trust and support for science among others. Congresswoman Judy Chu took the former stance in her speech, declaring that "all science has been under near-constant attack by

Donald Trump," and eliciting boos for related officials and policies. The budget cuts "endangered" science, said undergraduate Betty Wang. Graduate student Wendy Zhang instead drew to attention the "huge split between people" and the importance of everyone understanding the value of science. Jaika Doerfler, a postdoctoral student, likewise wanted to "demonstrate that science has

no borders." These two goals certainly have the potential to conflict. "We need to stay united," Congresswoman Chu addressed the largely liberal crowd, and "fight together for science," but we also need to be careful not to further drive a wedge into the crack across our nation.



Undergraduates Rupesh Jeyaram and Iman Wahle marching through Pasadena



Freshman Ziyan Mo waits for a place at the table to make signs.



Morgan Rangel and Claire Adkins, daughters of Caltech professors, hand out postcards about climate change for people to mail to their representatives.



The crowd gathers to hear speakers before marching to Memorial Park.

Photos courtesy of Noelle Davis

## IN THIS ISSUE

OPINION | PAGE 3  
ARIEL DISCUSSES CLIMATE CHANGE AND POLITICS

NEWS | PAGE 4  
RAMYA AND MAITREYI RECAP THE RECENT TOWN HALL

NEWS | PAGE 4  
CALTECH Y INTRODUCES A NEW CABINET

SPORTS | PAGE 5  
BASEBALL WINS SECOND SCIAC GAME OF THE YEAR

# ANNOUNCEMENTS

2

APRIL 24, 2017

THE CALIFORNIA TECH

## Caltech Y Column

CALTECH Y

### Upcoming Events

#### Poster Making for March for Science

Thursday | April 20th | 6:00 - 8:00 PM | Avery House Courtyard/ Dining Hall

Join teachers preparing signs for the LA and Pasadena science marches while enjoying the talents of Magic Castle magician Rmax! Rmax will do strolling magic during the sign-making and will have a stage performance to round out the night! Refreshments and Sign-Making Materials Provided.

#### Caltech Y Spring Friends Dinner with Dr. Charles Elachi

##### "The Golden Age of Exploration"

Thursday | April 20th | 6:00 PM | The Athenaeum | \$85 pp

Please join us for our upcoming Friends Dinner with our guest speaker Dr. Charles Elachi who will be speaking on the topic:

##### "The Golden Age of Exploration"

JPL missions have visited every planet in our Solar System. Over the last fifteen years, three rovers have explored Mars in coordination with a number of orbiters. Samples have been brought back from a comet tail and the solar wind. Saturn and its satellites have been studied extensively with Cassini. Planets around neighboring stars were discovered. Many new insights in our planet's environment have been acquired.

Dr. Elachi will describe, from first-hand experience, the excitement and impact of these discoveries and the challenges and risks for the next 15 years.

Limited spots available, please call the Caltech Y office on 626 395 6163 to secure your seat!

#### March for Science

Saturday | April 22nd | Pasadena and LA

Join Caltech students in demonstrating support for science and science funding in the US. Groups of students will be attending both the Pasadena March for Science and the LA March for Science. Also look out for March for Science t-shirts and a banner that you can sign outside of Chandler during lunch.

The Pasadena March will start at Beckman Lawn at 8:00 am and walk to Memorial Park. Visit [www.facebook.com/MarchForSciencePasadena](http://www.facebook.com/MarchForSciencePasadena) for more details.

Students wanting to attend the LA March can meet on campus at the parking lot north of the Beckman Auditorium and receive a free shuttle to the Gold Line, more details at <https://www.facebook.com/events/366097583784693/>. For general information on the LA March see <http://marchforsciencela.com/>.

#### Your world awaits... will you act?

#### The Caltech Y Advocating Change Together (ACT) Award

Applications are due by Friday, April 21st no later than noon

Visit [www.caltechY.org/programs\\_services/commservice/ACT/index.php](http://www.caltechY.org/programs_services/commservice/ACT/index.php) for applications and more information

Optional Info Dinner – Tues. April 11th - 6 pm - Hosted By Tom Mannion.

RSVPs by April 7th to <http://tinyurl.com/Y-Awards>

Got an issue or cause that warrants attention? Explore the issue - by attending a conference, training, or workshop, or choosing to immerse yourself with a mentor or organization that is addressing your issue – then plan some programs to raise awareness on campus. Awardees can receive up to \$4500 to cover expenses for their educational experience, including registration and program fees, travel, lodging, food, and incidentals.

Local, national, or global travel - as well as one day, multi-day, and even multi-week experiences - are all eligible. The Caltech Y ACT Award, made possible with generous support of the Caltech Employees Federal Credit Union, offers students an opportunity to pursue an issues through service or advocacy.

Stop by the Caltech Y or contact us to learn more about this exciting opportunity! Contact Greg Fletcher [ggreg@caltech.edu](mailto:ggreg@caltech.edu) or Liz Jackman [ljackman@caltech.edu](mailto:ljackman@caltech.edu) for more information.

#### The Studenski Memorial Award

Proposals are due Friday, April 21st no later than noon

Visit [www.caltechY.org/programs\\_services/areas/Studenski/index.php](http://www.caltechY.org/programs_services/areas/Studenski/index.php) for proposal guidelines

Optional Info Dinner – Tues. April 11th - 6 pm - Hosted By Tom Mannion. RSVPs by April 7th to <http://tinyurl.com/Y-Awards>

Are you wondering about the next step in your life? Have you reached a crossroad where you would benefit from an opportunity to explore? Would a trip, an opportunity to volunteer with an organization, or a chance to try a new skill or interest this summer help you gain clarity? If you answered yes to any of these questions, then the Studenski Award might be for you.

The Studenski Memorial Award is a grant of up to \$6000 established in the memory of Paul Studenski, a Caltech student who was killed in an automobile accident while traveling across the United States in 1974. It is awarded to a Caltech undergraduate who, having reached a crossroads in life, would benefit from a period away from the academic community to obtain a better understanding of self and to explore possible directions for the future.

Studenski proposals (1 to 2 pages maximum) are due Friday, April 21st no later than 12:00 noon to [caltechY@caltech.edu](mailto:caltechY@caltech.edu) (in word format). Contact Athena Castro [athena@caltech.edu](mailto:athena@caltech.edu) or Greg Fletcher [ggreg@caltech.edu](mailto:ggreg@caltech.edu) if you have questions.

#### Caltech Y Photo Contest

Deadline May 10th

The Caltech Y Photo Contest is on again! If you have participated in a Caltech Y program and are a current student, submit your photos for a chance to win. We're giving a \$100 prize to the winner of each of the five photo contest categories. The 5 categories come from the Caltech Y pillars of:

- Perspective
- Adventure
- Service
- Civic Engagement
- Leadership

## Caltechlive!

Wednesday, April 19, 2017 • 8 PM

EARNEST C.  
WATSON  
LECTURE SERIES

## HOW CLEAN IS THE CLOUD?



Computing "in the cloud" may seem like something ephemeral, but the cloud actually has a physical presence. Wierman will describe Caltech research that seeks to build a sustainable computing infrastructure.

### ADAM WIERMAN

*Professor of Computing and Mathematical Sciences;  
Director, Information Science and Technology  
Caltech Division of Engineering and Applied Science*

Public Lecture • Free Admission • Free Parking

Caltech's Beckman Auditorium

[www.events.caltech.edu](http://www.events.caltech.edu) • 626.395.4652



### Mentoring For Life

Every Monday | 3:30pm | Wilson Middle School Pasadena

Stressed out by college life? Step outside the Caltech bubble and mentor tweens who've never even thought about college. Things you could do: Build a baking soda and vinegar volcano, read a book aloud, play sports or board games, teach the alphabet of another language, do a craft. Having a mentor makes an at-risk student 55% more likely to attend college, 78% more likely to volunteer regularly, and 130% more likely to hold a leadership position. Interested? If you have 180 seconds, you can watch this video and be inspired. If you have an hour a week, you can mentor someone and be their inspiration. If you feel unqualified, don't worry. Ultimately, mentoring is about being a consistent, dependable friend—not a surrogate parent or psychiatrist. To get started, contact [noelle@caltech.edu](mailto:noelle@caltech.edu).

### Beyond the Y

#### Caltech Earth Week 2017 Events

April 15-22, various locations

Join the Caltech community for a week of events April 15-22 to celebrate Earth Day! There will be theater performances, opportunities to engage with local environmental organizations, and lunchtime speaker seminars on a variety of topics ranging from environmental justice to urban forestry. Visit [www.earthday.caltech.edu](http://www.earthday.caltech.edu) for the full schedule of events!

#### 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](mailto:azhai@caltech.edu). Eligible for Federal Work Study.

# For the Coal Miner's Daughter

**Ariel Hasse**  
Contributing Writer

On Friday evening Congressman Adam Schiff, of California's 28th district, and three local scientists gathered in Beckman auditorium with hundreds of people from Hollywood, Dawson City, and everywhere in between. I often feel like an outsider in Los Angeles, but never have I felt so alienated than on Friday.

The panel was on climate change and many people had questions about what they can do to save the Earth, what scientists are learning about the environment, and what congress is doing legislatively. I heard concerns about protecting LA's light rail, tax credits for electric vehicles, worldwide policy, recycling, and pollution. This crowd was pumped about climate change. Congressman Schiff couldn't come up with enough Earth-loving, solar-supporting, science rhetoric to appease the environmental warriors of LA. What baffled me is no one was asking "Why?"

Why do we need to conserve water? Why do we need to stop using fossil fuels? Why is climate change even real?

One woman even admitted her limited scope in science and despite

this proclaimed her determination to make a difference. The applause was igniting and insatiable, no one could make enough noise for the Earth or for Los Angeles.

"I see all of those women in fancy hats" a different audience member began, she continued to report that the coal lobby is just a show, "so how will congress make renewable energy sexy?" she asked.

My hand instinctually shot in the air, my body tensed, my face reddened, my tongue loosened ready to assault.

Has she ever seen a coal miner? Has she ever been to the middle of nowhere, to small forgotten communities pouring their souls into tilling the Earth so she can turn the light on at night?

My aunts and uncles are coal miners, my education was funded by BP and Shell, my teachers husbands fly three weeks on, one week off to the barren north slope of Alaska to drill oil, and my childhood friend builds pipelines in North Dakota. Seattle even was built from the Alaskan gold rush, adventurers leaving all luxuries behind to mine, to provide, to survive. These are the blue-collar workers who have provided you precious metals, coal, and petroleum. People who are proud of an economy of the

great industrial age that led us to electricity, better medicine, transportation, wealth, jobs, and innovation. More than that though, they are hard working, dedicated, patriots just like the hundreds of people who filled Beckman auditorium Friday evening.

Coal miners aren't living in the middle of nowhere Texas, North Dakota, or Alaska because it's "sexy". They believe in pulling themselves up by their bootstraps and dedicating themselves to their families. Natural resources are their livelihoods and their culture - my culture.

And it can't go on.

We need to stop using fossil fuels before yesterday to protect the environment and ultimately humanity. And I can't say there isn't a healthy dose of ignorance, lack of education, and media manipulation that voted for Donald Trump and his anti-environmentalist agenda, but more than anything, at least for my people, they see crowds of city folk enjoying all modern comforts and picketing for rural America's unemployment. Once again, I'm a scientist, I know, we need to shut down coalmines and stop drilling in the Arctic. I'm an Alaskan, I know, we need to save our glaciers

before they're gone and keep our salmon fisheries prosperous.

But we don't need to persuade women in fancy hats that renewable energy is 'cool'. What the people of Los Angeles are asking me is to tell my loved ones that they won't be able to provide for their families anymore and perhaps more hauntingly, that everyday of hard work is damaging their grandchildren's future and the very place they call home.

I left angry, confused, marginalized. My entire state, my whole family, and millions of others like us around the country are angry; in fact that's why rural America won the election. I can't ever defend their candidate or intolerance, but their economies are in grave danger, just like the Earth, and no one was listening.

I will deliver the message to my people, I have been my whole life, because I've always been a scientist and greenhouse gas emissions have never been a joke to me. In return, though, I am humbly asking, pleading, begging, that you listen. We need solutions that work for the Earth and for Americans. We can't leave the children of rural mining communities to starve anymore than we can let the children in impoverished coastal communities

starve as the ocean rises. When you hear someone say, "Why care about climate change?" hear beyond the frustrating denial of facts and listen to the American families whose jobs are disappearing with every Prius and who could never afford an electric vehicle in the first place.

The orange bubble has been popped; Caltech is no longer separate from the world stage. Now being a scientist comes with the responsibility of changing the world, of saving the world, of advocating for our work, the scientific method, and climate change. If we are to make a difference, if our research is to matter, if we are to build efficient solar cells and supply America's electricity, we need to commit ourselves not just to science, but also to people.

Because I can't look my cousin, a coal miner's daughter, in the eye and report her parents are ruining our futures and need to stop unless I have a new future for her family too. We aren't women in fancy hats, we're blue collar, middle class patriots fueling America and providing for our families. Only together, with open hearts can we begin to make science relevant and the American lifestyle sustainable.



## SPARK

- Learn tools for coping with procrastination and work avoidance.
- Learn practical, behavioral strategies for responding differently to old habits.
- Respond differently to unhelpful thoughts like "I can just get up early and do this tomorrow."
- Optional text-based reminder system to keep the lessons fresh in the week after the workshop is over.

A 1-hour workshop offered 2 times this term:

**Section 1: Friday, April 28th, 12:00 - 1:00**

**Section 2: Wednesday, May 17th, 4:00 - 5:00**

**Location: 229 Sherman Fairchild Library**

**More information: [counseling.caltech.edu](http://counseling.caltech.edu)**

# Immigration Town Hall: Caltech's Stance on the Travel Ban

Ramya Deshpande and  
Maitreyi Nair  
Page Editors

On March 6, 2017, President Donald Trump signed into effect Executive Order 13780, in an attempt to "fix" the turmoil generated by Executive Order 13769, the infamous travel ban that temporarily closed our once-prided open doors to immigration from seven primarily Muslim countries. The most recent order differs from the revoked one in several ways: it removed Iraq from the list of barred countries, set the hold on Syrian refugee admission to 120 days and asserted that green card holders could not be denied entry. In our own community, we currently have among us 45 students and scholars from impacted countries, and 9 such students have been admitted into the incoming class. While the legal status of several provisions of the latest order is still unclear and will be addressed in the courts in the coming weeks, an Immigration Town Hall was held on April 13, 2017 in response

to a directive from the Faculty Board in order to alleviate tensions and address concerns among the international scholars and Caltech community. The presiding panel, moderated by Professor Kai Zinn, included President Tom Rosenbaum; Professor Mory Gharib; Ilana Smith, Director for the International Offices; and Victoria Stratman, Caltech General Counsel.

Addressing the legal concerns that many international scholars may have, Ilana Smith provided a brief overview of the services our immigration offices have to offer: ISP aids on-campus international students, ISS works with international scholars, postdocs and staff, and the JPL International Office assists all international employees at JPL. These offices are here to provide immigration assistance and help with cultural adjustment, but encourage individuals to make thoughtful decisions on their own accord; they are not privy to personal eligibility information for visa classification and students

are expected to apply for visa and admissions on their own. In light of the uncertainty surrounding the legal status of several provisions of the second executive order, the International Offices strongly advise international students, especially those from the countries in question, against traveling outside the United States until the matter is resolved.

President Rosenbaum took the opportunity to discuss the fundamental role of universities as environments that cultivate freedom of expression, empowering talented individuals with varied perspectives to seek the truth through the very clash of ideas that such diversity enables. In doing so, he went on to clarify the Institute's stance as a private research and educational institution: while making decisions on behalf of the entire Caltech community, there must be a balancing act between making public statements and protecting the welfare of members of the community. As Professor J. Morgan Kousser commented in a statement written prior to this

town hall, Caltech did not sign the statement against the travel ban that was initiated by Princeton's President Eisgruber and signed by 48 universities, and although Caltech endorsed the amicus curiae brief of the AAU calling to overturn the initial executive order, it was not explicitly listed as a signatory. However, members of the Caltech administration have exhibited support for students in several additional ways: they have met with Representatives on Capitol Hill, helped to draft petitions and letters to the head of the Department of Homeland Security, and organized campus-wide informational sessions, while President Rosenbaum himself issued several statements to the Caltech community in the tumultuous weeks following the implementation of the initial executive order.

Apart from the actions of Caltech administration, the community response to the immigration restrictions has been expressed on a wholly unprecedented scale. During the town hall

itself, key speakers from the Caltech Postdoctoral Association, Graduate Student Council Board, and the undergraduate community gave short, but impassioned speeches in support of the international scholars, conveying their appreciation for the diversity of ideas and perspective that make Caltech what it is and urging students and educators alike to continue in providing physical and emotional support on both the individual and community level. These statements echoed the sentiments made clear at the March 1st rally at Millikan Pond organized by the Caltech faculty, a gathering Prof. Kousser called "the largest political demonstration at Caltech that [he could] remember since the Vietnam War." Through these words and deeds, the message is clear: science, as the pursuit of knowledge and truth, has no borders, and it ought to remain that way.

# Meet the New Caltech Y Cabinet!

**Aishwarya Nene**  
President

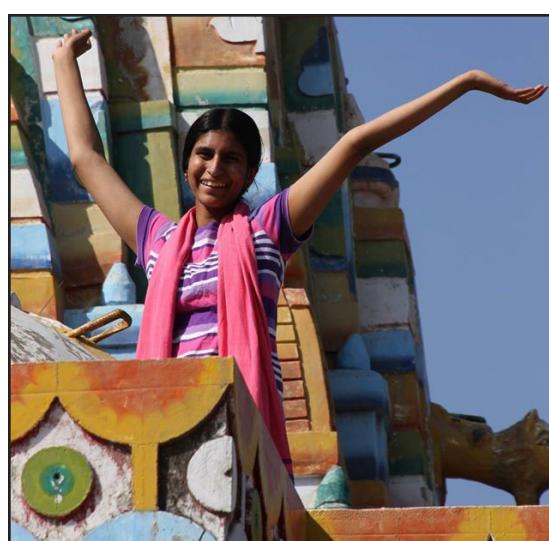


Aishwarya, President of the Caltech Y  
-Photo courtesy of the Caltech Y



Jenny, Treasurer of the Caltech Y  
-Photo courtesy of the Caltech Y

**Kavya Sreedhar**  
Vice President



Kavya, Vice President of the Caltech Y  
-Photo courtesy of the Tyler Okamoto



Phillip, Secretary of the Caltech Y  
-Photo courtesy of the Caltech Y

Kavya Sreedhar is a sophomore in Avery and is the newly elected Vice President. Throughout her time with the Y, she has been involved with programs ranging from the Social Activism Speakers Series to Kids Reading to Succeed and MAD Day. She really enjoys the amazing opportunities the Y provides and encourages you all to try out a few! She is looking forward to her time on the Y Cabinet and hopes to encourage people to publish more Tech Articles about Y events and serve as the contact person to ASCIT and the GSC to get the word out more about the Y.



The Caltech Y Cabinet  
-Photo courtesy of the Caltech Y

**Jenny Hsin**  
Treasurer

This is Jenny Hsin and she's a junior studying biology (pre-med) in Avery House. She started helping out with the Y at the end of her freshman year and is currently going into her second year as Treasurer on the Caltech Y ExComm. The Y gives her a lot of opportunities to go off campus and de-stress. She appreciates programs like Explore LA that let her get out from the Caltech bubble. She also participates in programs like Make-A-Difference Day or Union Station to help out in the community. She has also led the Catalina Island Alternative Spring Break, where she got to kayak and snorkel for the first time. These amazing opportunities are also available to you and she looks forward to seeing you at future Caltech Y events!

**Phillip Liu**  
Secretary

Even though Phillip is fairly new to the Caltech Y, in the past year and half he has been involved in many different Y activities, organizing various Y Food Drives, Y Decompressions and Make-A-Difference Days. He is a current member of the Finance and Governance Committees at the Y, and has previously served on the Y's Awards Committees. He is looking forward to serving the Caltech Y as secretary this upcoming year.

If you're interested in getting involved, check out <https://www.caltechy.org/> and feel free to reach out to any one of us!

# SPORTS

THE CALIFORNIA TECH

APRIL 24, 2017

5

## Caltech ends season with strong effort at CMS

GOCALTECH.COM

Actual Sports Content Editor

CLAREMONT, Calif. (Apr. 15, 2017) – Sophomore Katie Johnston and the Caltech women's water polo team saved their best team performance for last when they battled host Claremont-Mudd-Scripps Colleges on Saturday.

The Beavers took the Athenas to the limit with a four-goal fourth period after scoring one goal in each of the first three quarters. Three of Caltech's goals in the final period came off the shot of sophomore Brittany Percin, while Johnston scored the fourth and finished with two goals herself. While Caltech matched the Athenas' scoring output

over the final frame, the final barrage was not enough for the Beavers to salvage a SCIAC victory. Freshman Mackenzie Wooten scored her first goal of the season get the Beavers on the board in the first quarter. Meanwhile, Percin and Johnston showcased their attention to detail defensively by coming away with five of the team's six total steals.

Percin finished the season with 48 goals in 16 games, good for the third best scoring season in school history. Already occupying second place on the list, she has two more years to chase Ashley Grant's record of 56. Head Coach Jon Bonafede and the Beavers will return next year looking for the first SCIAC victory in program history.



Look at Katie's magnet hands. The ball is literally at her will without her touching it. #talent  
-gocaltech.com

## Reisler's double not enough at No. 33 Redlands

REDLANDS, Calif. (Apr. 15, 2017) – Sophomore Julia Reisler won both her matches for two of the No. 40 Caltech women's tennis team's three points at No. 33 University of Redlands on Saturday.

Reisler completed a 4-0 weekend in SCIAC play with a 6-4, 6-3 win at #3 singles and teamed with rookie Angelica Zhou for the second time this spring to record an 8-6 win at #2 doubles. Freshman Alexandra Bodrova claimed the Beavers' only other point at #4 singles in a narrow 6-4, 6-4 win, although Caltech was not far from stealing the match despite the 6-3 final score.

Bodrova and senior Sophia Chen were just a late break from having a chance to

give Caltech a 2-1 lead after doubles, falling 9-7 at #3 after Redlands had picked up the first point of the match at the top spot. The Bulldogs quickly clinched the match with decisive victories at #1, #5 and #6 singles, but Zhou gave UR's Emily Murnin all she could handle in her second match since moving up to court #2. The rookie took the first set 6-1, but was broken in the second (6-3) to lead to a superbreaker. Zhou ultimately fell 10-8, leaving a bitter taste in the Beavers' mouths ahead of a potential third-place rematch in the final round of the SCIAC Championships in three weeks.

Heigh-ho, heigh-ho - over the fence it goes.



-gocaltech.com

## Another SCIAC victory for baseball

GOCALTECH.COM

Actual Sports Content Editor

WHITTIER, Calif. (Apr. 15, 2017) – Caltech baseball added legitimacy to its first SCIAC win in 29 years with a second just two weeks later in a 13-12 slugfest at Whittier College on Saturday.

After leading through six innings in the Friday game before being blanked in the first of the Saturday doubleheader, the Beavers erased a two-run deficit in the third inning of the nightcap with a five-run barrage and never looked back. Senior Kai Kirk once more played a starring role, again driving in the game-tying run and scoring the go-ahead to kick-start the offense en route to a second historic victory this season. Not to be lost in the moment was the fact that sophomore Mark Burleson broke the program record for hits in a single season, cracking his 41st in the fourth inning of Saturday's morning game and going on to tally two more in the afternoon.

Prior to the Beavers' 4-3 win over Pomona-Pitzer Colleges a fortnight ago, Caltech had not won a conference game since 1988, with the most recent victory before that having come in 1983. Coming into the day, the Beavers had won two games against SCIAC foes since 1978, when they earned one SCIAC and another non-conference victory over Pomona-Pitzer. Caltech's last two-win SCIAC season came in 1973, when the Beavers defeated Pomona twice and Occidental College once in 18 conference games.

### Game 1: Caltech 2, Whittier 5

The weekend series began with ceremonial dual first pitches to officially commemorate



Sliiiiide to the left. Sliiiiiideee to the right. FREEZE. Everybody clap your hands. \*clapclapclap\*

-gocaltech.com

the opening of the Institute's brand-new, state-of-the-art turf field. Looking to mark the occasion with a victory, the Beavers jumped out to a 1-0 lead in the second inning due to an error that allowed Kirk to score from first base. Sophomore Jonah Krop recorded his first four outs via strikeout and had racked up five by the end of the second inning as he shut out the Poets over the first six.

The Beavers doubled their lead in the bottom of the sixth inning on a sacrifice fly by freshman Minjae Kim that plated junior Garrett Levine. Whittier's bats woke up at that point as a leadoff single and flare double down the right field line put runners in scoring position with no outs. A groundout and sacrifice fly scored both and Caltech was unable to answer, with Whittier adding three insurance runs on a solo homer and two-run

error with two outs in the eighth inning. Krop still claimed the quality start, as he would be charged with three earned runs on seven hits and three walks while striking out six in the complete game.

### Game 2: Caltech 0, Whittier 2

Kirk went toe-to-toe with Poets ace Alex Baez, who would punch out 13 while walking five in a three-hit complete game. The senior captain surrendered just two runs on seven hits and three walks in eight innings as Caltech was unable to get anything going on offense, only once putting two men in scoring position when the Beavers loaded the bases with one out in the fourth inning. Whittier tallied its first run in the fourth and plated a two-out insurance run in the seventh, while a double play groundout erased a pair of leadoff walks for the Beavers in the top of the ninth.

### Game 3: Caltech 13, Whittier 12

The Beavers had their best day at the plate since 2014 and scored their most runs in a SCIAC game since 1999 in the series-ending victory. They needed every single one to close it out despite holding a nine-run lead heading to the bottom of the eighth inning, as the Poets staged a furious rally in a desperate attempt to defend their home field. After Whittier scratched out seven runs on two walks, five singles and just one extra-base hit (a double), Levine came in to put out the fire. Already the Beavers' first reliever to record even a single save since at least the turn of the millennium, the junior worked out his nerves with a walk and run-scoring single before getting out of the inning with a fly ball to centerfield and a one-run lead intact.

Caltech had a chance to add an insurance run as Burleson reached second base after a leadoff single and sacrifice bunt, but a pair of fly outs to right field brought the Poets back to the plate with momentum squarely on their side. Levine coaxed the leadoff batter into a groundout to second, but allowed the tying run to reach first on a single to right field. The next batter smacked a comebacker right at Levine, who wheeled around to get the lead runner at second base, but the runner slid into freshman Cortland Perry, bringing an abrupt end to the game as both he and the hitter were called out by rule.

Six Beavers recorded at least two hits in the victory, with senior Harrison Jacobs recording three and Levine drawing two walks to score a team-high four runs. Burleson and Kirk led the squad over the weekend, each batting .385 while combining for three runs and five RBI.

# ANNOUNCEMENTS

THE CALIFORNIA TECH

## Join the Meditation Mob!

Tuesdays, 12:00 - 12:50



Want to learn more about mindfulness meditation? It's a great way to improve your attention and to become more grounded in the present moment.

There's no religious component. We use secular, evidence-based meditation techniques.

We meet in the small room just off the lounge in Winnett. All students are welcome, from total beginners to more experienced meditators.

Mailing list and MP3 archive:  
[counseling.caltech.edu/students/meditation](http://counseling.caltech.edu/students/meditation)

**You chose one of the most trusted institutions in SCIENCE.**



**Now choose one of the most trusted institutions in FINANCE.**



When you want unsurpassed stability, integrity and value for your money, Caltech Employees Federal Credit Union offers an honest alternative. There are no gimmicks. No annual fees. No harsh penalties.

Just some of the lowest lending rates and highest savings rates in the nation...and a state-of-the-art eBranch for easy, convenient online and/or mobile access to your account. We're the overwhelming choice for financial services among the entire Caltech family. If you haven't yet joined, call or visit us online or in person today. You belong here.



<sup>62</sup> Smarter <sup>16</sup> Solutions. <sup>59</sup> Proven <sup>75</sup> 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.



## CATALYST

**A 3-workshop series offered twice this term. Pre-screening is required - call the counseling center's front desk at (626) 395-8331 for more information.**

- Learn how stress affects you, and make a personalized stress response profile.
- Learn tools for being with stressful and difficult emotional experiences when you can't easily change them.
- Get a clearer sense of your moment-to-moment experiences.
- Learn how to separate from unhelpful patterns of thinking.
- Get a clearer sense of what's important to you, and how you can make choices in line with that.

**Section 1: Wednesdays 4:00 - 5:00, April 19, April 26, and May 3rd**

**Section 2: Mondays 4:00 - 5:00, May 8, May 15, and May 22nd**

**Location: 229 Sherman Fairchild Library**

# ASCIT Minutes

Meetings are every week in SAC 13

#### ASCIT Board of Directors Meeting

Minutes for 21 April 2017. Taken by Alice Zhai.

**Officers Present:** Andrew Montequin, Tim Liu, Rachael Morton, Sakthi Vetrivel, Kalyn Chang, Robin Brown, Alice Zhai

**Guests:** Bobby Sanchez, Vincent Park

**Call to Order:** 12:23pm

#### President's Report (Andrew):

- Proposing a mascot change for ASCIT to the earthquake as his last act as president

#### Officer's Reports:

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

- This past weekend ARC put together a student group to talk to the alumni association
- Humanities classes have cleaned up the catalog of HSS courses
- ASCIT teaching awards will open nominations in the next couple days
- Course capture (recording class lectures) is going to be relaunched

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

- Bechtel town hall meeting is being moved to May 1
- Came up with six focus group topics, with 5-10 students for each group
- Committee appointments will be happening after ASCIT elections

##### Director of Operations (Sakthi):

- Looking for ASCIT laptop, which will be used for ASCIT's Netflix account for the screening room
- Club Fair is on Friday, April 21 from 4 to 6

##### Treasurer (Kalyn):

- Multihouse funding pairs for this term are Fleming/Lloyd, Page/Avery, Blacker/Ricketts, and Dabney/Ruddock
- Vincent Park pitched for funding for 150 S Chester Interhouse

##### Social Director (Robin):

- ASCIT Movie Night is on Friday, May 3
- Trivia Night starts next week

##### Secretary (Alice):

- Last meeting for the '16-'17 BoD :)

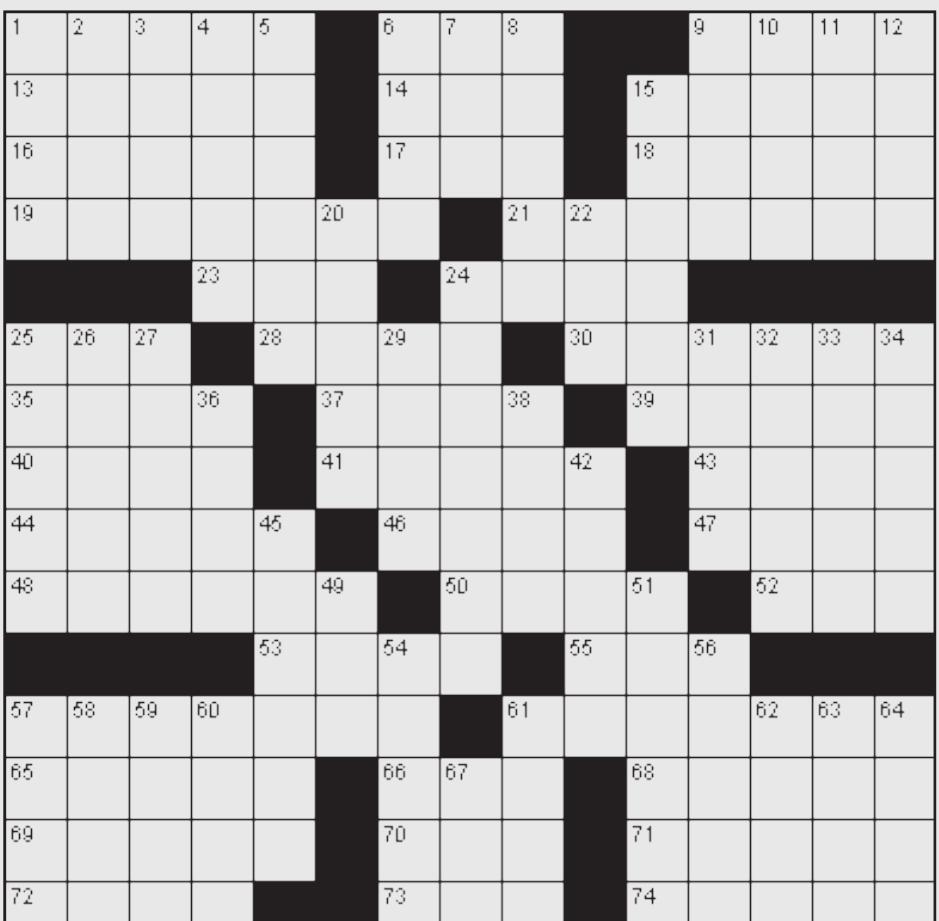
If anyone has any questions or concerns about a section of the minutes please email the appropriate officer. We are happy to answer any questions.

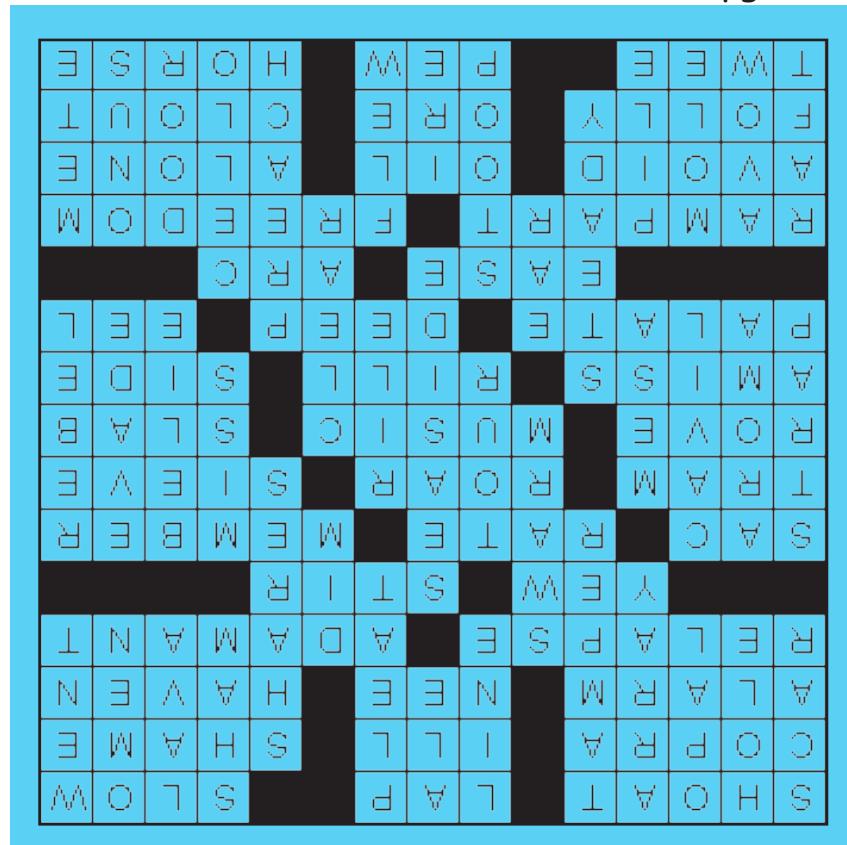
Meeting Adjourned: 12:49pm

# Crossword

#### Across

- |   |                               |                                |
|---|-------------------------------|--------------------------------|
| 1. Young pig                                  | 57. Defensive embankment      | 27. Raise trivial objections   |
| 6. Circuit                                    | 61. Liberty                   | 29. Term of enlistment         |
| 9. Lose velocity                              | 65. Keep away from            | 31. Failure to hit             |
| 13. Coconut meat                              | 66. Lubricant                 | 32. Contradict                 |
| 14. Poorly                                    | 68. Solitary                  | 33. Dodge                      |
| 15. Ignominy                                  | 69. Stupid mistake            | 34. Renegade                   |
| 16. Warning device                            | 70. Metal-bearing mineral     | 36. Tableland with steep edges |
| 17. Indicating maiden name                    | 71. Target used in archery    | 38. Irritate                   |
| 18. Oasis                                     | 72. Dainty                    | 42. Well-defined               |
| 19. Fall back                                 | 73. Church bench              | 45. Unwavering                 |
| 21. Intransigent                              | 74. Gymnastic apparatus       | 49. Auricle                    |
| 23. Evergreen tree                            |                               | 51. Deliver a sermon           |
| 24. Move very slightly                        |                               | 54. Crouch                     |
| 25. Pouch                                     |                               | 56. Stringed instrument        |
| 28. Estimate the value of                     | 1. Indication of damage       | 57. Flat float                 |
| 30. Someone belonging to a group organization | 2. One playing period in golf | 58. Affirm                     |
| 35. Form of transport                         | 3. Translucent mineral        | 59. Small burrowing mammal     |
| 37. Bellow                                    | 4. An orderly arrangement     | 60. Heap                       |
| 39. Strainer                                  | 5. Meddle                     | 61. Moved through the air      |
| 40. Ramble                                    | 6. Telephone connection       | 62. Movable barrier            |
| 41. Euphony                                   | 7. Beer                       | 63. Burden                     |
| 43. Block                                     | 8. Type of fold in fabric     | 64. Boundary line              |
| 44. Awry                                      | 9. Fake                       | 67. Anger                      |
| 46. Small stream                              | 10. Volcanic rock             |                                |
| 47. One of two contesting groups              | 11. Portent                   |                                |
| 48. Roof of the mouth                         | 12. Moved away                |                                |
| 50. Of an obscure nature                      | 15. Has in common             |                                |
| 52. Snakelike fish                            | 20. Teem                      |                                |
| 53. Alleviate                                 | 22. Lacking in light          |                                |
| 55. Part of a circle                          | 24. Shore, as a resort        |                                |
|   | 25. Latchet                   |                                |
|   | 26. Fragrance                 |                                |



**Answers to current crossword (pg 7)**-<http://puzzlechoice.com>***The California Tech*****Editors-in-Chief**Jon Cotler  
Katherine Guo**Page Editors**Alex Cui  
Noelle Davis  
Ramya Deshpande  
Tanvi Gupta  
Chloe Hsu  
Hye Joon Lee  
Maitreyi Nair  
Ciara Ordner  
Helena Shield  
Rona Yu**Contributing Writers**Andre Comella  
Tim Liu**Circulation Manager**  
Mason MacDougall**Advisor**  
Richard KiplingCaltech 40-58, Pasadena, CA 91125  
Contact [tech@caltech.edu](mailto:tech@caltech.edu)*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](mailto: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](mailto:tech@caltech.edu). For subscription information, please send mail to "Subscriptions."

**The California Tech**  
Caltech 40-58  
Pasadena, CA 91125