

# The Hot Rivet

VOLUME CXXII NUMBER 20

PASADENA, CALIFORNIA

TECH@CALTECH.EDU

APRIL 1, 2019

# JOE SHEPHERD ASSERTS CONTROL

**CARTER WALKRITE**  
Field Reporter

In the early morning hours of last night, forces loyal to the VPSA stormed SAC-13, the Tech room and all the rooms of the House presidents. The underfunded ASCIT defense forces were ordered by the BOD to lay down their arms after a short symbolic exchange of fire as to limit the bloodshed. As of this afternoon the whereabouts of the House presidents remains unknown, but according to an Office of Strategic Communications press release the Presidents have been taken to a leadership retreat “for their own protection.”

According to early reports, several members of the IHC, ACRL and ASCIT were tipped off 12 hours in advance of the coup. This early warning allowed major portions of the ASCIT government to escape campus and set up a government-in-exile



*Democracy Dies in Darkness*

in PCC. The leadership of the government-in-exile proclaimed in a recent radio broadcast “We shall return!!!...at the very least to pick up our diplomas.” Under the harassment of enemy fire, ASCIT managed to evacuate large portions of its treasury, alongside

with some heavy equipment. “With the ASCIT formal money, the Fleming cannon, and the Lloyd gong, we shall take this fight to the enemy and liberate campus! Vive La Caltech!” announced ASCIT defense force commander Andre Comella. This defiant response contrasted starkly

with the IHC’s denial of the coup and recommendation for cooperation as to maximize goodwill between students and administrators.

In a press release to the Office of Strategic Communications, VPSA

*Continued on Page 3*

**Democrats demand the entire ACRL report**

**BIM JACOSTA**  
Reporter, Parsons-Gates Bureau

While the current administration claims that the ACRL report exonerates them of any and all crimes, the Democrats still want the report to be released in its unredacted form. “How will we know which house scared prefrash away during PFW?” Nancy Pelosi asked reporters outside her Capitol Hill office. While some Democrats, especially those in swing states, were reticent to comment on the situation, Judiciary Chairman Jerry Nadler declared “If the administration refuses our April 2nd deadline, we will be forced to subpoena them.”

**Tech Editor Dead**  
**EDITORIAL BOARD**

Last night, one of our colleagues at The California Tech, Dan Xu, died during the storming of the Tech room. Dan had been writing a humor column when armed soldiers associated with the VPSA coup stormed the Tech office. In the confusion that followed, Dan confronted the soldiers and stalled them long enough so that the rest of the Tech editors and staff were able to escape. His ultimate sacrifice has allowed the fight against apathy, ignorance, and authoritarianism to continue with the **Hot Rivet**.

In a press release by the Office of Strategic Communications, the death of Dan Xu was blamed on an attempted coup by ASCIT defense forces. This press release by the OSC is nothing more than propaganda: the ASCIT defense forces hadn’t even mobilized when the Tech office was stormed. Instead, the claimed “counter-coup” by the forces of the VPSA was in fact the only coup.

*Continued on Page 3*

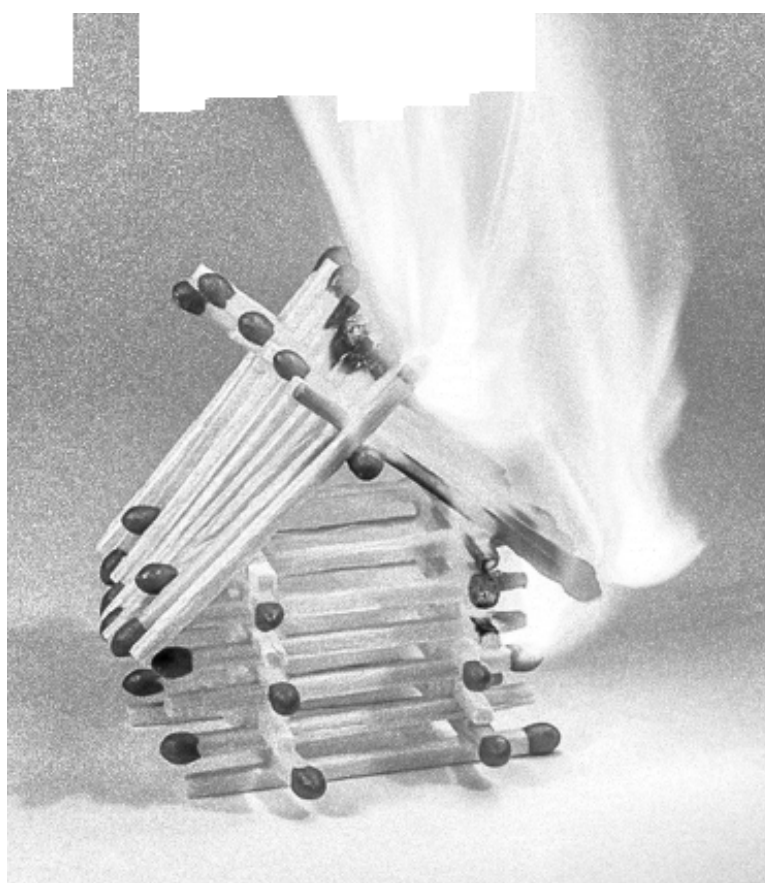
## Caltech Burns Down in a Blaze of Glory

This morning at 2 A.M. fire alarms again sang throughout the south houses. Although false alarms are common for the state-of-the-art machine-learning blockchain big-data fire prevention system on the cloud designed by Caltech’s own Jet Propulsion Laboratory, the three fire alarms this morning were not a drill. The entirety of the Southern Undergraduate residences collapsed to the ground at around 2:35 A.M, less than an hour after the fire alarms started. Fortunately, most undergraduates were on break and were not in the residences at that time. However, many students came back to the charred remnants of their belongings and have lost their entire life savings. Students expressed their frustration that the fire alarm started and stopped twice.

Caltech has contacted the United Nation High Commissioner for Refugees for assistance with dealing with the displaced undergradu-

ates. The administration has declared the undergraduate residences as a disaster area and has increased the presence of Caltech security around the area supplemented by private military corporations to prevent looting. Supplies from Red Door have been distributed to the students about once per hour. To oversee the humanitarian operation, the Caltech administration has placed the VPSA in charge.

The fire started during a routine Caltech Gas & Electric (CG&E) maintenance operation across the street from the Athenaeum on Hill. This was the same house that caught on fire that caused the South Houses to be evacuated before break. CG&E was attempting to rewire the entire house so that the house would be less likely to catch on fire. However, the fire started when one of the CG&E employees seemed to forget to shake off the old electrons from one of the power conduits leading to the house.



*Artist's Impression of the South Houses burning down.*

# Upcoming Events

## EDITORS-IN-CHIEF

The Upcoming Events column serves to inform students of upcoming events. The list is compiled by the Editors-in-Chief from information available around campus.

### Beginning of Instruction for Spring Term

Monday, April 1 | 8 AM - 5 PM | Campus

Beginning of instruction, Spring Term

For more information, please contact Registrar's Office by phone at Ext. 6354 or by email at [regis@caltech.edu](mailto:regis@caltech.edu)

### High Energy Physics Seminar

Monday, April 1 | 4 - 5 PM | Beckman Auditorium | Lauritsen 469

Unlocking Neutron Stars as Sensitive Probes of Dark Matter

Tim Linden, Ohio State University

### Undergraduate Academic Standards and Honors Committee Meeting

Tuesday, April 2 | 9 AM - 5 PM | No Location

Undergraduate Academic Standards and Honors Committee Meeting

For more information, please contact Registrar's Office by phone at Ext. 6354 or by email at [regis@caltech.edu](mailto:regis@caltech.edu)

### Gaypril Kick-Off

Tuesday, April 2 | 12 - 1 PM | Red Door Cafe

Stop by and learn more about PRISM, Caltech's campus social group for Lesbian, Gay, Bisexual, Transgender, and Queer (LGBTQ+) students, staff, faculty, and their straight allies. Find out about programs and services for LGBTQ+ students from the Caltech Center for Diversity at a resource table outside of the Hameetman Center.

For more information, please contact Taso Dimitriadis by phone at 626-395-8108 or by email at [taso@caltech.edu](mailto:taso@caltech.edu)

### Dish and Discuss 11: Indigenous Cultures Represented in Dance

Wednesday, April 3 | 12 PM - 1 PM | Bechtel Residence Dining Hall

Two Caltech undergraduate admission colleagues, Nikki Kahealani Chun (Native Hawaiian) and Jarrid Whitney (Six Nations

Cayuga), will discuss their own Indigenous identities and how they use dance to connect with their individual cultures. Participants will even have the opportunity to see and learn some of their dance customs!

Dish and Discuss: The Caltech & JPL Community is invited to our workshop series highlighting a variety of topics chosen to encourage cultural intelligence, engage critical discourse and provide an inclusive space for the exploration of diverse identities, thoughts and interests. This year's theme is What Matters to Me, and Why?

For more information, please contact Caltech Center for Diversity by phone at 626-395-6207 or by email at [Diversity@caltech.edu](mailto:Diversity@caltech.edu)

### Emotional Well-Being Workshop Series - Breathing techniques for emotional self-regulation

Wednesday, April 3 | 12 - 1 PM | Avery Library

Each year, Counseling Services presents the Emotional Well-Being Workshop Series to bring in mental health professionals from both on- and off-campus to discuss a wide variety of topics related to having a healthy emotional life. Each workshop will be on a Wednesday from 12:00 - 12:55 in Avery Library, and free lunch will be provided on a first-come basis.

On April 3rd, Dr. Jan Aura will speak about breathing techniques for emotional self-regulation. When you're overwhelmed, it can be hard to calm yourself down because we don't have direct control over most of our sympathetic nervous system. One important exception is through regulating our breathing - and there are numerous useful and practical strategies that you can learn to help yourself through difficult emotions.

Dr. Aura has worked with many people engaged in challenging and often creative goals who are having difficulties with relationships, achievement, depression, anxiety, sustained attention, or emotional concerns. She holds a Ph.D. in Clinical Psychology (with minors in Quantitative Psychology and Movement Psychotherapy) from UCLA. She has previously worked at Caltech Counseling Services and has worked closely with Caltech students and staff for many years. In her private practice, she has provided and taught psychotherapy for over 25 years.

For more information, please visit <http://wellness.caltech.edu/resources/workshops-and-groups>

### Biosafety - Comprehensive Training

Wednesday, April 3 | 1 - 5 PM | Keith Spalding B117

This course is designed for individuals who are working with Biosafety Level 2 (BSL-2) microorganisms or human blood, cell lines, or other potentially infectious human materials. The course presents biosafety information.

From 1:00 to 2:30, basic Biosafety and Blood Borne Pathogen training will be offered followed by more lab specific training including a one hour training on viral vectors and one hour training on biotoxins. Not all students will need the full complement of training. If all topics are required, the training is scheduled for 1:00 PM to 5:00 PM. Regardless of number of modules, the session starts at 1:00 PM for all students.

Visit our Training Calendar Tab for course dates and time.

To enroll in this course:

Log onto [access.caltech](http://access.caltech)  
Under SELF SERVICE, click the Training and Professional Development link  
Search for course in search box  
Enroll in course

### Caltech Library Workshop - You and Your Thesis

Wednesday, April 3 | 2 - 3 PM | Sherman Fairchild Library 328 (Multimedia Conference Room)

This class will give a brief overview of techniques useful in the production and publication of Caltech electronic theses, including tips on formatting and submitting. It will also touch on intellectual property considerations and access, as well as thesis dissemination policies. Additional topics may include author identification (ORCIDs) and preservation of thesis-related research data.

For more information, please contact Kathy Johnson by phone at x6065 or by email at [kjohnson@caltech.edu](mailto:kjohnson@caltech.edu)

### Film Screening: "CODE: Debugging the Gender Gap"

Wednesday, April 3 | 5:30 - 8 PM | Center for Student Services, 2nd Floor, Conference Room

Ever wondered why there are so few women in the computing industry, as well as in other STEM disciplines? Ever wanted to change that situation?

Join your fellow undergraduates, graduates, and postdocs in a documentary screening night with the highly acclaimed film CODE: Debugging the Gender Gap!

CODE exposes the dearth of American female and minority software engineers and explores the

reasons for this gender gap. It raises the question: what would society gain from having more women and minorities code?

Featuring key policymakers, coders and educators from institutions and organizations like Pinterest, GitHub, and ETSY, the film investigates the decline in female programmers since the 1980s and talks about the resounding effects of not addressing the 'bugs' that are continuing to discourage women from entering and remaining in the industry.

Food and drinks provided!  
Please RSVP using the link listed below.

For more information, please contact Angie Liu by email at [anqiliu@caltech.edu](mailto:anqiliu@caltech.edu)

### Galapagos—The Islands That Changed The World

Friday, April 5 | 10 - 11 AM | Beckman Auditorium

When Charles Darwin visited the Galapagos Islands in September 1835, his experiences and studies of this unique environment would change our understanding of life on Earth. With dramatic reconstruction and stunning wildlife images, this program explores a hidden side of the islands, revealing why, more than any other place, they are a showcase for evolution.

A BBC/National Geographic Channel US co-production.

Cecilia Sanders, a graduate student in Geological and Planetary Sciences at Caltech, will introduce the film and guide the post-screening discussion.

Recommended for grades 3 through 8.

To make a reservation or learn about more field trip opportunities, please call (626) 395-6059 or email [mhh@caltech.edu](mailto:mhh@caltech.edu).

Find Us On Facebook

For more information, please phone (626) 395-6059 or email [mhh@caltech.edu](mailto:mhh@caltech.edu)  
\$10 (assigned seating)

## Continued from Joe Shepherd Asserts Control

Shepherd recognized the IHC and the CRC as the interim government of Caltech Undergraduates. In order to form a new, permanent student government, Joe Shepherd announced a new committee, the

Student Administration Decision (SAD), that will determine the student self-government of Caltech undergrads. The committee, selected by Joe Shepherd, will consist of the VPSA, three faculty members, two undergraduates, and as many administrators as it takes to get the correct answer.

With the flight of the BOC,

Joe Shepherd has pushed for a fundamental overhaul of the Honor system: "Effective immediately, all sets and tests will now be completed in the Hameetman testing center." According to Victor Clay, head of security, "We have been planning this for quite a while- why else would there be so many cameras?"

As of this morning the Honor Code has been changed to "No Caltech Student shall take unfair advantage of any Caltech administrator." In this vein, it has now been made a CRCable offense to criticize the decisions or opinions of administrators.

## Continued from Tech Editor Dead

Every day, journalists risk their lives in the search for truth. In this regard it is ironic that Dan Xu died- he was a humorist and really only cared if an article was funny. This being said, Dan's sacrifice was for a greater good and we, as journalists, must never forget this deed.

## Rumors of Mercenaries Deployed to Caltech Untrue

TIM SHEPHERD

Reporter, Parsons-Gates Bureau

Some of you may claim to have noticed members of foreign private military companies around recently. These rumors are patently untrue and are nothing but ASCIT propaganda. Due to the deteriorating security situation caused by these terrorists, VPSA Joe Shepherd has called for aid from our allies. The commander in chief of the Caltech Californian Army has sent soldiers to train in Russia, and they have now returned to fight. Because of their hard training, they have forgotten English and now speak nothing but Russian. Do not approach them and ask where they came from; you will be prosecuted for damaging state property. These specialist forces will be involved with cracking down on cases of arson and looting, while having Caltech loyalist army members handle roles that involve positions of high contact (negotiating with the house elders, CRC chairs, etc.).

If issues relating to this arise, please let me know so I can relay concerns to members of the Caltech regime. Intelligence personnel will quickly arrive to take care of these cases of concern.



"Mercenaries" look over the dead body of Dan Xu

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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.

## Seeking Ushers for CaltechLive!

Do you have a passion for the arts? Are you a people person? If so, come play an important role in the CaltechLive! 2019 season. You'll make new friends, support the arts and see performances for free!

Seeking energetic, articulate people to provide excellent customer service for Caltech Public Events. Serve as a goodwill ambassador; ensuring audiences have a safe and enjoyable experience while attending performances and programs in Beckman and Ramo auditorium. Ushers must be able to stand on their feet for long periods of time, assist patrons to their seats, read and comprehend printed tickets and communicate respectfully and clearly. Assist with concession or souvenir sales as needed. Must be able to lift up to 25lbs. Ushers are scheduled on an event basis, typical shifts include nights and weekends. Prior theater experience is a plus.

To apply contact: Ed Brown at [edbrown@caltech.edu](mailto:edbrown@caltech.edu)



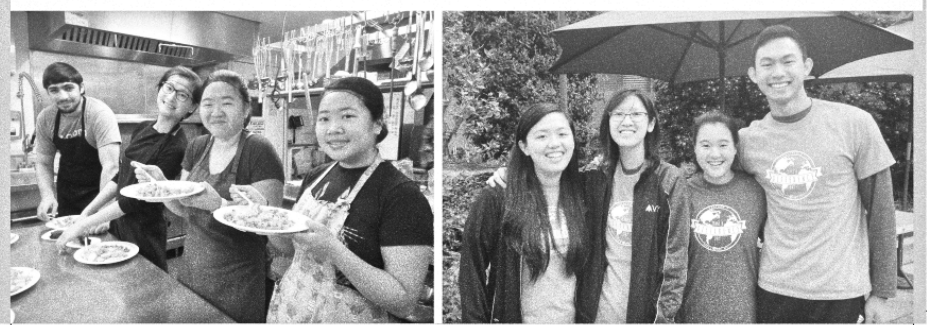
## MAKE A DIFFERENCE DAY

SATURDAY APRIL 6, 2019

JOIN THE CALTECHY AT LOCAL AGENCIES FOR A DAY OF COMMUNITY SERVICE

MEALS, TRANSPORTATION, AND T-SHIRTS PROVIDED

FOR MORE INFO CONTACT: [CALTECHY@CALTECH.EDU](mailto:CALTECHY@CALTECH.EDU)

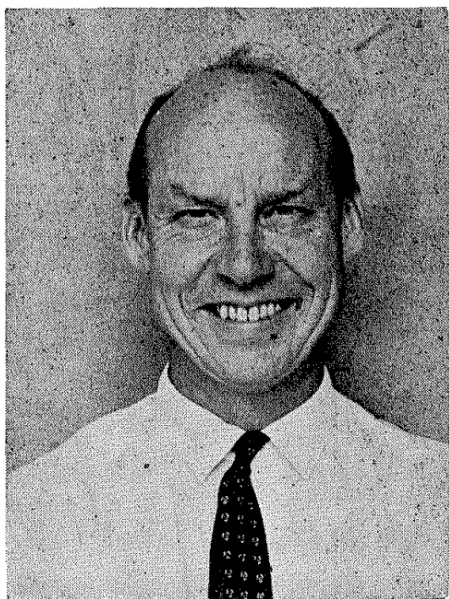


# The Hot Rivet 54 years ago:

## No Freshman Physicists

In a special news release Wednesday afternoon, Professor Carl D. Anderson, Chairman of the Division of Physics, Mathematics and Astronomy, informed the **Hot Rivet** that no freshmen had enrolled in the physics option. Said Prof. Anderson, "We feel that this unprecedented lack of interest is totally due to the policy of discouragement adopted by the physics department

### Bi Bites



—Portrait Staff

I spit in your eye, Feynman.

toward potential enrollees. Suggestions have been received from certain quarters that the new physics course may have been a contributing factor, but Dick said no, and that's that."

In an attempt to sample faculty opinion, the **Rivet** interviewed a cross-section of its members.

Dr. Roach Boat, freshmen lecturer, gave the following reaction: "Ze fools! Ze stupid schwinehunds! How dare zey ignore us! Zey would neffer get away vit dat in Germany. Vey haff vays of delink mit peoples like dat. Heil!" "By ze way," he said to this reporter (who is a frosh), "haff you any relatiffs now liffink in Germany?"

Softer Fong, Dean of Freshmen and physics Teaching Assistant commented: "I knew it! I knew it! I told them this would happen. I just knew we'd scare them off. Why won't anyone ever listen to me? Oh, my poor, poor little frosh. Uncle Softer won't let them hurt you anymore. I'll protect you, don't you worry."

Professor Richass P. Swineman, when asked for his interpretation of the situation, said, "Care."

Professor Nernst H. Schist, Professor of Chemistry, had the following to say: "Ohboyohboyohboy, for twenty years I've watched those damn physicists run this campus. Now we've got 'em where we want 'em. Now we'll show 'em who's boss. From here on out the frosh'll take **two** years of chemistry. Ohboyohboyohboyohboy..."

Professor Hatchet D. Sthm, Chairman of the Humanities, was found in his office preparing a plan to convert East Bridge into a humanities library. He declined to make a comment at this time.

Professor of English Clark "S" Kent was interviewed by reporter as he stood on a balcony on the south side of Dabney Hall and threw rocks at passing physicists.

Dr. Clark: "Now they know what it feels like."

## Christians Arise; Atheists Martyred

The Caltech religious revival is continuing to gain impetus, Gron Romble, chief saint of the Caltech Christian Fellowship, reported that at the end of the third day, conversions passed the 200-mark, with more taking place "every hour." Campus evangelistic meetings held in alleys, lounges and in Winnett have made areas impassable from the crowds.

According to Romble, tomorrow's meetings will take place every two hours in Beckman. Overflow crowds will be accommodated in Culbertson, Dabney, 201 Bridge, and Winnett. Exhorted Romble, "Every last damn sinner will be converted!"

### "Is That God?"

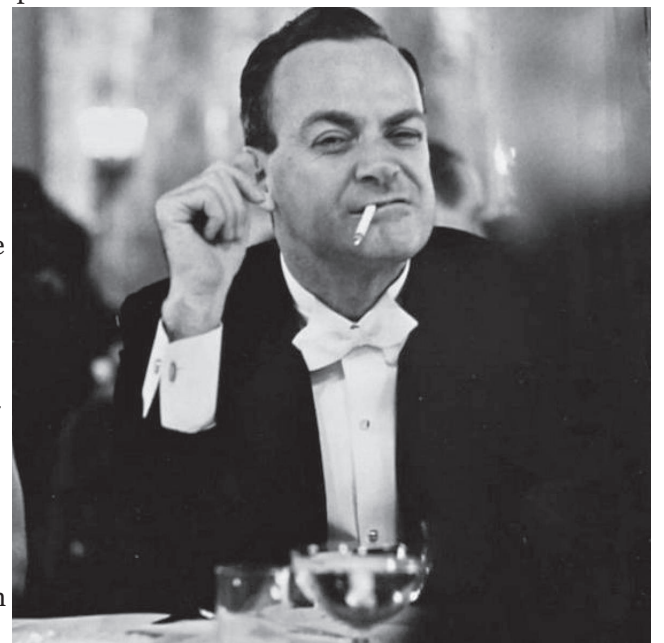
The revival seems to have come as a result of the Caltech Christian Fellowship's new aggressive tactics. The dramatic model of Hell set up last week in the steam tunnels made a vivid change in student religious opinion. Finally the CCF – now known as the "God Squad" – began crusading through the student houses, preaching the "word of the Lord." The result was one hundred conversions the first day; even avowed atheists in many houses, locked in their rooms for fear of conversion, have fallen.

Opposition is rapidly forming to the revival. An Ad-hoc Faculty Committee has been formed, headed by Dr. Stampum. Stampum stated that the faculty,

confident that the humanities department was doing its job, was completely caught by surprise at the movement.

### "No, It's Just Someone Who Looks Like Him."

A preliminary report by the Committee indicates that the Institute will take the following action: General Newton and his troops will guard Beckman from takeover by the revivalists. Drs. Dade and Feynman have been appointed to disprove the existence of God by Lebesgue integrals and the Heisenberg uncertainty principle, in lectures next week. All reference to the supernatural are being eliminated from En 1 reading, since such references might arouse sensitive frosh. And Student House Master Huttenback plans to ban all night alley prayer meetings by invoking the noise rule.



## Women's Tennis Back to 20th in Latest ITA Rankings

**GOALTECH.COM**  
Actual Sports Content Editor

PASADENA (Mar. 28, 2019) – The Caltech women's tennis team returned to No. 20 in the Intercollegiate Tennis Association's national rankings, tying its all-time best rankings from earlier in the season. The Beavers also check in at fourth in the west regional rankings since January after being left off the previous list. Caltech stands only behind SCIAC powerhouses No. 2 Claremont-Mudd-Scripps Colleges and No. 4 Pomona-Pitzer Colleges, in addition to No. 19 Trinity University (Texas) on the regional list.

Caltech just as notably made noise in the individual

ranks. Senior Kana Moriyama (Redmond, Wash. / Redmond) has been ranked as the 15th-best singles player in the region and freshman Anna Tifrea (Fullerton, Calif. / Troy) made her debut on the ITA's list as the 20th-ranked player in the West. Moriyama, along with sophomore doubles partner Sarina Liu (Rolling Hills, Calif. / Palos Verdes Peninsula) have additionally been ranked as the sixth-best doubles team in the region and fourth among SCIAC foes.

Head Coach Mandy Gamble and the Beavers will play their next match against SCIAC foe No. 37 University of Redlands at home this Saturday at 10 a.m.



*That's a large tennis ball.*

## Men's Tennis Rewrites Record Books in Latest ITA Rankings

**GOALTECH.COM**  
Actual Sports Content Editor

PASADENA (Mar. 28, 2019) – The Caltech men's tennis team improved its all-time best national ranking to 21st on Monday while earning several regional accolades and milestones along the way.

The men's team's 8-3 start is its best in recent memory, and three ranked victories over the last two weeks have propelled the Beavers up seven spots in the national rankings. Caltech showed itself to be arguably more impressive in the west regional rankings, the Intercollegiate Tennis Association's first batch since November. The young Beavers check in at fourth in the region behind only SCIAC powerhouses No.

4 Claremont-Mudd-Scripps Colleges and No. 13 Pomona-Pitzer Colleges, in addition to No. 11 Trinity University (Texas).

Caltech also made tremendous strides in the individual regional rankings. Sophomore Varun Shanker (Midland, Mich. / Midland Dow), fresh off his fifth singles victory of the season over a ranked player, has earned the title of the third-highest ranked singles player in the region and the highest ranked singles player in Caltech history. Shanker trails only Jed Kronenberg of Pomona-Pitzer and Jack Katzman of CMS and will have a shot at both players when the calendar turns to April. Additionally, classmate James Wei (Chappaqua, N.Y.

/ Horace Greeley) returned to the regional rankings at 13th with the potential for further gains when the Beavers begin their SCIAC schedule. Both players also retained their distinction as the top-ranked doubles team in the region.

Head Coach Jason Cohen and the Beavers will play arguably their most important match of the season on Saturday, Mar. 30 when they take on No. 22 University of Redlands on the road at 10 a.m.



*Shake!*

## Percin Returns for Women's Polo at Redlands

**GOALTECH.COM**  
Actual Sports Content Editor

PASADENA (Mar. 27, 2019) – Senior Brittany Percin (Lake Tahoe, Calif. / Stanford Online) returned to the Caltech women's water polo lineup on Wednesday at the University of Redlands after competing at the NCAA National Swimming & Diving meet over the weekend.

Percin led the way for Caltech with three goals between the second and third period and also featured in net for the Beavers for just over five minutes, one of four different

players to do so. The senior also picked up three steals between her time in net and in the field and combined with classmate Gemma Takahashi (San Jose, Calif. / Leland) to lead Caltech to a 4-for-4 outing on sprints. Senior Katie Johnston (Livermore, Calif. / Livermore) and freshman Sophie Devoe (La Jolla, Calif. / Bishop's) also scored for the Beavers.

Head Coach Jon Bonafede and the Beavers will remain on the road this weekend when they travel to California Lutheran University for an 11 a.m. game.



*Levitating orb.*

## 2019 CALTECH UNDERGRADUATE WRITING PRIZES

Each year, the Division of Humanities and Social Sciences awards a number of prizes for undergraduate writing. Consider submitting your work to be recognized and rewarded for your work as a writer.

### Submit your writing to these prizes:

**Hallett Smith Prize** Awarded to an outstanding essay related to the work of Shakespeare. Prize amount: \$500.00

**Mary A. Earl McKinney Prize in Literature** Awarded to the best original poetry and fiction. Submit up to three poems. Fiction should not exceed 12,000 words – one submission. Prize amount: \$500.00/each category

**McClure Memorial Communications Prize** Awarded to the best academic writing in three categories: English, history and philosophy. No length limit. Please include prompts for all essays composed in courses. Essays written for courses may be revised before submission. Prize amount: \$500.00/each category

Copies of last year's prizewinning writings are stored in CaltechTHESIS and you may view them by visiting this writing center webpage: <http://writing.caltech.edu/community/prizes>

### Submission Guidelines: Deadline: April 5, 2019

Only currently enrolled full-time undergraduate students may submit. Entries should be double-spaced PDFs. Students can only submit one paper per category. Winners are announced in June and their names will be in the commencement program. Winners' writings will be archived using CODA through the Caltech Library. Email entries to Cecilia Lu at [cecilial@caltech.edu](mailto:cecilial@caltech.edu), noting the prize to which you are applying in the email subject and filename.

**Caltech** Division of the  
Humanities & Social Sciences

Contact Cecilia Lu at  
[cecilial@caltech.edu](mailto:cecilial@caltech.edu) with any questions

## Caltechlive!

### THE EARNEST C. WATSON LECTURE SERIES

#### TINY CHIPS FOR BRAIN-BODY-MACHINE INTERFACES



**Azita Emami**, Andrew and Peggy Cherng Professor of Electrical Engineering and Medical Engineering; Investigator, Heritage Medical Research Institute; Executive Officer for Electrical Engineering,

Microscale implantable and wearable devices will one day transform the field of medicine. They enable continuous monitoring and closed-loop therapeutic systems that can help millions of patients suffering from chronic diseases such as diabetes and epilepsy. Current solutions are bulky, inefficient, hard to track, and do not last very long inside the body. Azita Emami will discuss how to solve these problems and build microchips that can continuously and wirelessly monitor key biomarkers such as glucose. She will also present efficient personalized devices for future brain-machine interfaces.

WED., APR. 3, 2019 • 8 PM

Caltech's Beckman Auditorium

Free Admission • Free Parking

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

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## DBal Dilemma

Peter is an old school Senior on DBal and wants to buy the most items for exactly \$100 dollars

### Items:

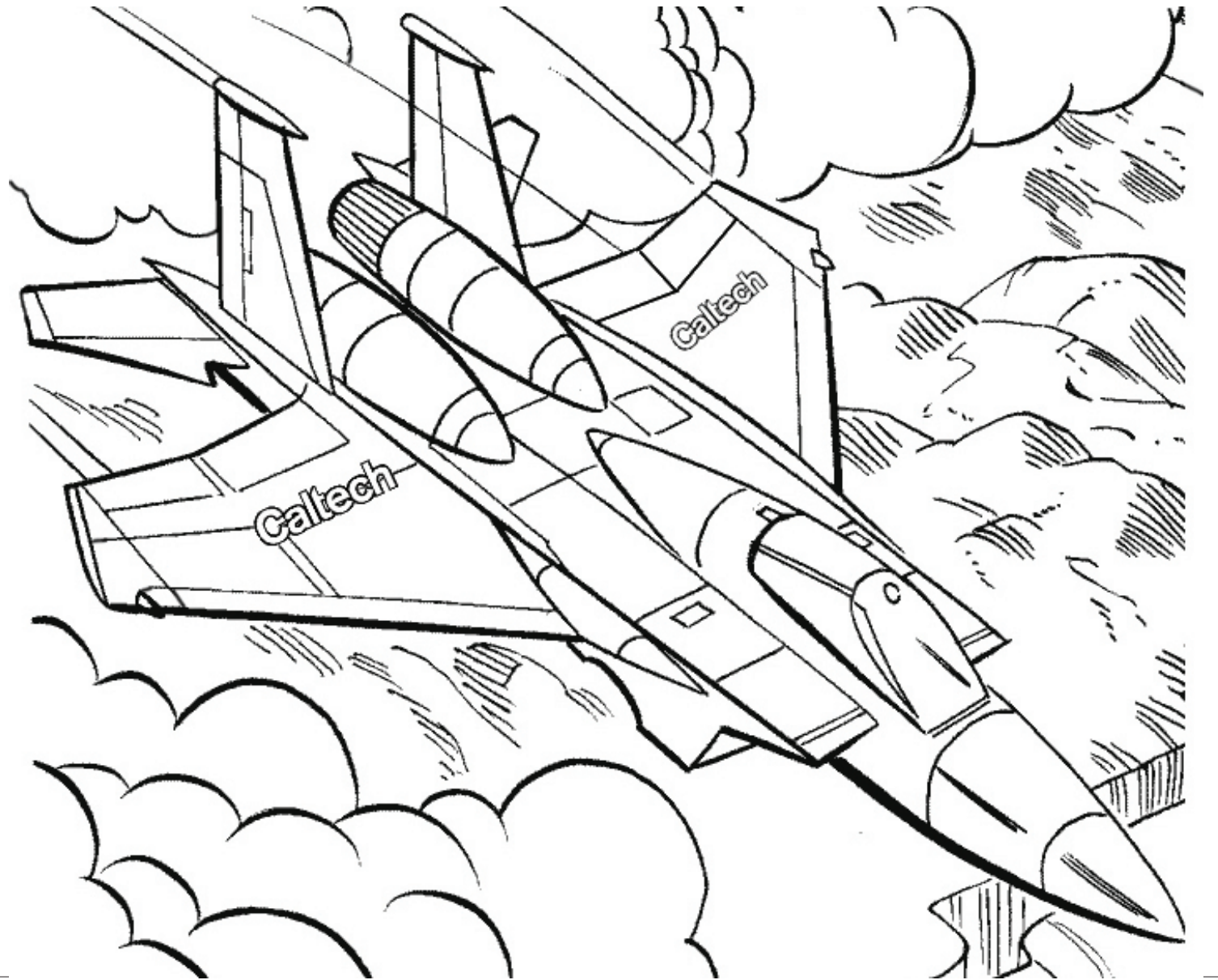
1. Lighter \$ 9.62
2. Batteries \$ 2.26
3. Isopropanol \$ 3.95
4. Acetone \$ 11.64
5. Hydrogen Peroxide \$ 1.77
6. Frozen Burritos \$ 5.30
7. Ben and Jerry Ice Cream \$ 3.03
8. Rice Krispy Sheets \$ 11.88
9. Canned Soup \$ 8.89
10. Peanuts \$ 0.51



## Top Gun

Can you color this with only three colors where no two regions have the same color.

Some F-15s with a nice Caltech logo.



## Tech Delivery

Can you help us deliver the California Tech? Highlight the shortest path such that you reach all of the red stars starting and stopping at the green star.

**Rules:**

You may only travel on the dark paths, but you can take the same paths again.

You must start and stop at the large white star, and touch every black star at least once.



