Fall Term 4
Winter Term 46
Spring Term 72
Houses 116
People 166
Dear Caltech Community,

We sincerely hope that you enjoy the 2015-16 Caltech Big T Yearbook. It was put together by an amazing group of people who believe in the value of preserving the memories from this special year and they deserve our utmost gratitude. This year was special for many reasons, both at Caltech and the world at large: amazing sports seasons, revolutionary scientific discoveries, and the prelude to one of the most controversial elections in recent history. We particularly enjoyed putting together this book because it was our last year at Caltech. Choosing the theme for the last yearbook we would print was bitterweet; however, “Ignite" really stuck with us, because it encompasses what we hope you will take away from this yearbook. It is no secret that producing yearbooks at Caltech is hard. It requires a lot of time, effort, and money. However, due to the determination of a small group of people, during our tenure the yearbook has been converted to full color, is produced on a more timely scale, and has started to gain some notice among the student body. The amount of opposition we faced was difficult, but the job got done. With our last yearbook, we wanted to “ignite" a fire within the students to show you that you can do whatever you want. The road will be hard, but it will always be worth it. Everyone at Caltech is intelligent and capable of making a difference in the world - you just have to believe you can do it. We know that the main thing on your minds are problem sets, but, we hope that you will take a second to think about what you can do to make each year more amazing than the last, both at Caltech and in all the years to come.

Meghana Pagadala ’16
Soumya Kannan ’16
Editors-in-Chief, Big T 2015-2016
1. ORIENT YOURSELVES. RLC Laurissa Charnasangavej points a Caltech parent in the right direction on Move-In Day. 2. FRESH PRINCE OF CALTECH. Daniel Xu ’19 cannot hold back a smile as he settles into his new room with family and his rotation roommate Tanner Reece ’19. 3. PACKED LIGHT? FCC Robert Eng ’18 helps Caltech parents move their child’s luggage, but this endeavor is not easy. 4. ACCEPTED. FCC Anshul Ramachandran ’18 and Felix Weilacher ’19 pose for a picture that captures the exciting first day of school. 5. NEW PLACE, NEW FRIENDS. FCC Gillian Kopp ’18, Alyssa Poletti ’19, and Cindy Huang ’19 hang out together and get to know each other better.
THE START of something new

On move-in day, the new freshmen class move into their new rooms, join new communities, and befriend their new neighbors. This is especially important as these new communities last all of two weeks. The day is full of both excitement and enthusiasm, as well as trepidation and terror. Carrying all of their possessions and beginning this new adventure is both liberating and constraining. As Gemma Takahashi ’19 says, “There was so much time I didn’t know what to do with my life. I could sleep, eat, and work when I wanted no questions asked.” Yet, there is the responsibility of freedom – to make sure that you “Talk to everyone and get sleep.”

On this day, parents and loved ones have to say goodbye to their children for what might be the first time and let them go begin an independent life. After all in the words of a Taylor Swift song, they take a deep breath and walk through the doors on the morning of their very first day. It's a dventure is liberating and on the freshmen year and they're going to be here for the next four years in this town. Move-in day is the beginning of an exciting journey. - Nicholas Hutchins

“There was so much time I didn’t know what to do with my life.” - Gemma Takahashi ‘19
After arriving on campus for what might be the first time, the new freshmen are immediately bussed off campus. In the spirit of the word “camp,” frosh camp takes place at the Marriott Hotel in Ventura Beach. New students get the chance to compete in a boat race, spend time on the beach, and learn more about what is ahead in the next few years. They get to spend relaxing time at the beach, enjoy a geology hike of the nearby hills, and most importantly, meet their classmates for the next four years. As a result, perceptions they have developed of their classmates from the summer online and from prefrosh weekend begin to go away. As Brian Lue says, “Before coming here, I’d felt that there’d always been this sort of stereotype about Caltech students. During Frosh Camp though, I realized that many of those stereotypes were completely false.”

-Brian Lue ’19

“Before coming here, I’d felt that there’d always been this sort of stereotype about Caltech students. During Frosh Camp though, I realized that many of those stereotypes were completely false.”

-Nicholas Hutchins

MEET THE FCCs

BIANCA LEPE
Class: Senior
Option: BioE, BEM
House: Ruddock

“As an FCC I had the pleasure of meeting both the new freshmen class and wonderful exchange students. I remember being really nervous when I was a new student both at Caltech and when I studied abroad, so as a counselor I enjoyed welcoming our new students and giving as much knowledge and advice about Caltech as possible.”

AMANDA GAO
Class: Junior
Option: Computer Science
House: Lloyd

“I remember really enjoying my time as a new student at Frosh Camp, and I found out this year that I could have just as much fun as a Freshman Camp Counselor! I got to hang out with fellow upperclassmen, spend a few relaxing days at the beach, and share my knowledge and love of Caltech with some very cool new students.”
1. **POOL AND CHILL.** At Fresh Camp, a group of freshman gather next to the pool to get to know each other. 

2. **CLUB CALTECH.** Thankfully, the Fresh Camp party does not require you to be 21 to enter. Freshmen fill the hotel ballroom for some good dancing and music.

3. **PANEL, PLEASE.** Caltech is a tough place, so thankfully some seasoned students come together to share the “Challenges and Choices” they had to make at Caltech. 

4. **KEEP IT CLASSY.** During rotation, every house hosts an event. Freshmen gather at Ruddock’s event, Chez Ruddock.
5. SPLASH! If you went to Fleming's rotation event, hopefully you were ready to get dirty. Fleming organized "Dirty Dodgeball," combining paint with a fun game of dodgeball. 6. ROCK ONE Ricketts House organized a Rotation Open Mic event that attracted quite the crowd.
SPARKS FLY. As the sun set on the fun-filled carnival, Caltech put on a dynamic fireworks show synced to explosive music. Caltech students watched the fireworks, excited to be back with friends and start a new school year.
The carnival is an annual event that takes place on the eve of the first day of classes, a day to mourn the end of the summer and while "celebrating" the beginning of a new year. It is held on Beckman lawn and beckons the entire Caltech community to rejoice in mindless fun - whether that means you're trying to dunk your best friend into the dunk tank with a piercing throw or reaching new heights on the bungee trampoline. This year, with food galore and fun beyond what seems possible, it was a day you wouldn't want to miss. After a day full of activities, fun food like cotton candy, and a plethora of pointless yet entertaining arcade games, the night ended with a showing of the Jurassic World movie, followed by a heart stopping, breath taking fireworks display that truly represented the magnitude of our sadness to see the summer end. Though - supposedly - there was some excitement for the year ahead. Supposedly.

Harinee Maijurin

1. 3...2...1...LIFT OFF! Sandra Ning '18 gets strapped into a harness for some fun jumping on the bungee trampoline. 2. BULLSEYE. Drew Schaffer '18 winds up his arm to throw at the target as the innocent person in the dunk tank awaits his fate. 3. COOL FOR THE SUMMER. A group of Caltech undergraduates gather together as they get ready for the school year after a fun-filled summer.
The Caltech Men's Cross Country team had another amazing year as numerous athletes repeatedly set new personal records and the freshman class showed immense potential in continuing a tradition of success.

At the first meet of the season, the Redlands Invitational, senior Jared Forte '16 and freshman Rohan Choudhury '19 led the team with times of 19:44 and 19:46, respectively. Their times were the two fastest on record at this course, and Forte clocked in 50 seconds faster than he did as a freshman. These successes, however, were not isolated; Mason MacDougall '18, Elliot Simon '16, Mark Lorden '16, and John McDaniel '18 finished the race strong, each significantly decreasing their times since previous years.

Fast forwarding to the SCIAC Multi-Duals, in mid October, it was evident that the Beavers meant big business this season. Senior Aditya Bhagavathi '16 paced the men's team, placing second overall and only 19 seconds behind the first place runner with a time of 25:47.82. The other five members of the men's team crossed the line in quick succession, within 18 places of one another. Freshman Michael Hashe '19 dropped 16 seconds off his time from two weeks prior.

On Halloween, the men ran at the SCIAC Championships, where Bhagavathi '16 led the team to a fifth-place finished. He earned All-Conference honors, and fellow seniors Forte '16 shaved 55 seconds off his Multi-Duals time while Alexander Anemogiannis '16 cut 51 seconds off his 2014 performance. Juniors Bobby Sanchez '17 and Rishabh Pipada '17 dropped 1:26 and 38 seconds, respectively.

At the final team race at the NCAA Championships in Claremont, California, Bhagavathi '16 again led the team. However, the rest of the senior class was absolutely crucial to the success of the team as well, with Forte '16 finishing 62nd, Anemogiannis '16 finishing 66th, and Mark Lorden '16 finishing 113th. Lorden shaved 1:13 off his Multi-Duals time to earn his only sub-30-minute 8km of his career.

Together, the class of 2016 was a major part of the 2015 men's cross country team. Aditya Bhagavathi '16 reminisces, "Caltech XC has been one of the most meaningful activities during my college days, because of both the fun and character development I've experienced along the way. My proudest achievement though will be when the underclassmen I mentored this year go on to break records and lift the program even higher."

"My proudest achievement though will be when the underclassmen I mentored this year go on to break records and lift the program even higher."

- Aditya Bhagavathi '16

The five seniors will undoubtedly be missed, but leave behind a legacy of perseverance and immense success.

The Team: Alexander Anemogiannis '16, Aditya Bhagavathi '16, Rohan Choudhury '19, Rohan Doshi '19, Jared Forte '16, Nick Haliday '17, Michael Hashe '19, Joey Hong '19, Noah Huffman '19, Mark Lorden '16, Mason MacDougall '18, John McDaniel '18, Rishabh Pipada '17, Ethan Pronovost '19, Bobby Sanchez '17, Elliot Simon '16, Gene Vaughan '18

Coaches: Ben Raphaelson, Emma Berndt
How has running cross country and being a student-athlete influenced your time at Caltech?
What cross country, track, and being an intercollegiate athlete did for me more than anything was provide stability. It was a set 2-3 hours every day when you didn't have to worry about anything and when you do that, running becomes the most relaxing activity in the world. After that, coming early for preseason as a prefrosh helped me learn my way around and meet people before the massive rushes of frosh camp and rotation.

If you were stranded on an island, what three things would you bring with you and why?
If I were stranded on an island, I think I'd bring a boat or helicopter or something so I could leave. That and a map pinpointing my location and a satellite phone. Those three sound pretty good. Am I avoiding the point of this question?

If you were running for president, what would your slogan be?
Elliot Simon, not as much of a loser as that other guy
THE RACE SETS THE PACE. The team poses for a photo. Top row from left to right: Coach Ben Raphelson, Nick Haliday '17, Rohan Doshi '19, Gene Vaughan '18, Bobby Sanchez '17, Michael Hashe '19, Alexander Anemogiannis '16, Ethan Pronovost '19, Jared Forte '16, Joey Hong '19, Noah Huffman '19, Rohan Choudhury '19 and Assistant Coach Emma Berndt. Bottom row from left to right: Mark Lorden '16, Elliot Simon '16, Mason MacDougall '18, Rishabh Pipada '17 and Aditya Bhagavathi '16.

1. ON YOUR MARK! Jared Forte '16 pins on his number as he prepares himself for the race. 2. KEEP RUNNING. Team captain Elliot Simon '16 keeps pushing forward to complete the race. 3. STAY FOCUSED. Aditya Bhagavathi '16 blocks out the noise to continue breaking records. Already, he has been awarded Capital One Academic All-America Second Team, Academic All-District First Team, First Team All-SCIAC, and Outstanding Male Athlete of the Year in an Individual Sport. 4. OVER THE HILLS. Jared Forte '16 and Rohan Choudhury '19 are not too far apart from each other as they approach the finish line. 5. IN STRIDE. Rohan Doshi '19 and Alexander Anemogiannis '16 are neck and neck as fans watch them start the race. 6. THE EXPERIENCED AND THE NEW. Despite the difference in their experience levels, Aditya Bhagavathi '16, Rohan Doshi '19, and Rohan Choudhury '19 share their love of running and make Caltech proud as they break personal and school records.
The Team: Beatriz Asserepanee '18, Caroline Atyeo '18, Robin Brown '18, Melissa Gutierrez '19, Ariel Hasse '19, Lily Luo '17, Michelle Marasigan '19, Alice Michel '16, Rachel Thorp '16

Coaches: Ben Raphaelson, Emma Berndt

Photos: All by Mark Becker. Layout: Meghana Pagadala

The Caltech women's cross country team, led by freshmen Melissa Gutierrez '19 and Michelle Marasigan '19, made immense strides (pun intended) this season, starting on day 1. At the University of Redlands Invitational in early September, the rookies led the team to a nearly 3 minute improvement on their average time, joined by sophomore Caroline Atyeo '18. Gutierrez was just 17 seconds off from the 6k record time of Stephanie Reynolds '15, foreshadowing continued success for the rest of the season. Coach Ben Raphaelson reflected upon this race and his three leaders after the race, expressing immense pride in their performances: "Melissa and Michelle ran intelligent races and competed with poise to record very strong finishes. It was great to see them competing in a Caltech uniform for the first time. This was a very promising start for Caroline too after being unable to run this race last year due to injury. The result she produced today was one of her best races at Caltech."

At the Pomona-Pitzer Invitational barely a month later, it was clear that the team meant business this season and possessed a clear sense of depth that would be crucial to their achievements. The freshman leaders were joined by Ariel Hasse '19 and Lilly Luo '17, who raced their first collegiate races of the season. Robin Brown '17 showed immense improvement as well, cutting 30 seconds off her per mile time compared to her race just two weeks prior. Senior Alice Michel '16 also made her season debut at Pomona-Pitzer.

The SCIAC Championships on Halloween brought with it its own joys. Marasigan '19 paced the team with a 70th-place finish, followed by Gutierrez '19 in 72nd place. Atyeo '18 rounded out the top three finishers, with a 76th place finish, followed by Rachel Thorp '16 in 84th. Thorp and Atyeo stepped up immensely despite limited racing time during the season, and all round growth was clear. Caroline Atyeo '18 reflects on her love for cross country: "The best part of cross country for me is the feeling of satisfaction after finishing a race, no matter the outcome of the race. This feeling is unmatched by feelings of success from other sports, and it is the reason I continue running after all these years."

At the final meet of the season, each runner improved with a personal record of her own. The freshmen led the team, but were joined by Thorp '16, Luo '17, and Atyeo '18. Raphaelson summed up the season in a two simple, yet impactful sentences: "These seniors have made a lasting impact on both programs. We'll be counting on our younger runners to build on what they've established." - Harinee Maiyuran
Who is your role model?
My mom is one of my strongest role models. She’s never intimidated by obstacles in life. Eight years ago, she returned to graduate school at 48 years old to get a new masters in psychotherapy, and has successfully built her own private practice since then. She has also only recently picked up running, but has run three miles every morning for the past year and is now in the best shape of her life. She takes risks and stops at nothing to achieve her goals.

What are your plans after Caltech?
I’ll be pursuing a Masters degree at UC Berkeley in the Information and Management Systems program to study data analytics.

If you were stranded on an island, what three things would you bring with you and why?
My acoustic guitar (even though I’m pretty terrible at playing) for portable music to keep my spirits up; a good book to pass the time (maybe The Sirens of Titan by Kurt Vonnegut?); and, most importantly, my kitten Olive so I could have a buddy!

Who is your role model?
Definitely my mom. She might be tough on my brother and I but she is the most caring person I know. She never accepts less than my best and living up to her expectations pushes me harder every day even if she isn’t here physically.

How has running cross country and being a student-athlete influenced your time at Caltech?
Running cross country has made me much better at organizing my time right from the start of freshman year. In high school I was able to procrastinate and still finish everything I needed to, but at Caltech running cross country has made me appreciate every second I have to work.

If you were stranded on an island, what three things would you bring with you and why?
A book: I never have time to read, but I guess if I was stranded on an island I’d have plenty of time... A flare: Considering I’m stranded, I guess it would be a good thing to get rescued on the off chance that someone sees the flare and the even less likely possibility that they come rescue me. A box of matches: There’s nothing better than a nice bonfire on an island. You’d even get the sound of the waves crashing from all directions.
1. **RACE ME MAYBE?** Lilly Luo ’17, Alice Michel ’16, and Ariel Hasse '19 start their meet off strong as they try to outrun the competition.

2. **BRINGIN’ SEXC BACK.** The cross country girls gather for a team photo.

3. **NO EXCUSES.** Robin Brown '18 keeps running to finish the race.

4. **BREATH OF FRESH AIR.** Beatriz Atsavapranee ’18 enjoys her time before she has to begin the meet.
Setting Expectations
After losing a single senior in the 2014 season, the women's volleyball team entered the 2015 season with a strong lineup led by six seniors. With unique skill sets, the quintet often comprised the starting lineup with Catherine Jamshidi ‘16 and Meghana Pagadala ‘16 as the outside hitters, Amaris Little ‘16 as an opposite hitter, Harine Maiyuran ‘16 as a setter, and Amy Hu ‘16 at libero.

The team earned more wins than they did last year, sweeping Mills College twice in an epic double header on October 11, and annihilating West Coast Baptist on senior night with a decisive 3-0 win after losing the first match of the season 2 weeks prior.

Despite the story told by the stats, it was—perhaps—the nail biting third set against Whittier College that defined the marathon season through which this team continuously fought. After a rough first two sets with 6-25 and 14-25 losses, the team rallied in the third set, tying with Whittier at 7-7 and 16-16, eventually earning a possible set point at 24-23. With the Orange Out event that same night, the stands were packed with fans who were eager to see the team victorious, and the gym was alive with energy. Although the score eventually indicates a loss, this set and the progression through the match, from 6 points to 14 and finally 24, demonstrated the dynamic nature of this team. All 14 players came together both on the court and on the bench, along with the many fans present at Braun Gym, to nearly earn the first set victory in a decade. Harine Maiyuran ‘16 remembers, “It was my favorite night of the season, and though the scoreboard was not in our favor, the final set showed me what this team is truly capable of. I've never felt an adrenaline rush like I did that night. Volleyball has defined my time at Caltech, no question about it.”

-Harine Maiyuran ‘16

The 2015 team improved on last year immensely, totaling more than 100 kills, posting a higher positive hitting percentage, serving 35 more aces, making 27 more blocks, committing 79 fewer reception errors, and racking up a whopping 249 more digs. The team averaged 9.5 additional points per match while recording four more set wins and one more victory than last season.

The returners will carry this momentum into preseason in Fall 2016, armed with recruits and ready to further this progress. —Harine Maiyuran ‘16

The Team: Rachel Ng ‘18, Catherine Jamshidi ‘16, Suzannah Ostrowsky ‘17, Ker Lee Yap ‘17, Amaris Little ‘16, Amy Hu ‘16, Harine Maiyuran ‘16, Anna Winnicki ‘18, Ciara Ordner ‘18, Sakshi Verrier ‘19, Preehi Periyakkal ‘18, Mayra Melendez ‘18, Meghana Pagadala ‘16, Kate Lewis ‘17

Coaches: Tom Gardner, Lea Anderson, Jerry Lucio, Kathy Torres, Kevin Ye
“I enjoyed volleyball, because I loved being around such a great team.”

“I’ve met some of the most inspirational women and forged the strongest friendships while being on the team.”

“I just loved all the support from my teammates and the crowd. It was great playing with such energetic and enthusiastic fans for 4 years”

“Despite the multiple surgeries and hours spent recovering, it was all worth our senior night game and the 3 victories we earned in this season. I have made some of my best friends due to volleyball.”

“I love being on a team that knows how to have fun and work hard at the same time. There is no other group of women that I would want to be on the court with.”
1. A.C.E...ACE! The team celebrates after an ace.

2. YOU JUST GOT SERVED. Harinee Maiyuron '16 serves to the awaiting West Coast Baptist team.

3. QUEENS OF THE COURT. The volleyball team poses for a team picture outside of the gym. Bottom row from left to right: Kevin Yei '18 and Jerry Lucio. Middle row from left to right: Assistant Coach Lea Michelle, Amarise Little '16, Sakhti Vetrivel '19, Suzannah Osekowsky '17, Catherine Jamshidi '16, Kate Lewis '17, Preethi Periyakoil '18, Meghana Pagadala '16, and Coach Tom Gardner. Top row from left to right: Anna Winnicki '18, Amy Hu '16, Clara Ordner '18, Harinee Maiyuron '16, Mayra Melendez '18, Ker Lee Yap '17. Not pictured: Kathy Torres.
1. RAISE THE ROOF. Goalkeeper Shaurya Gilani '19 leaps from the water to make a block. 2. STEP AWAY. Matthew Cedeno '16 pushes away the opposing player. 3. WARM UP. Goalie Jack Lloyd '19 takes a shot during the quarter break to warm up his teammate and fellow goalie Charles Ross '19, preparing him to take over in the following quarter.

The Team: Shaurya Gilani '19, Jack Lloyd '19, Charles Ross '19, Chris Bradley '17, Tomas Tussie '17, Patric Eck '16, Eshan Goyal '19, Billy Bloomquist '19, Jim Blackwood '16, Galen Gao '16, Matthew Cedeno '16, Henry Baer '18, Richard May '18, Jordan Bonilla '17

Coaches: Jon Bonafede, David Robles
The 2015 season brought a plethora of new faces to the pool deck, and expectations were higher than ever. With the addition of new head coach Jon Bonafede, as well as five freshman, including three goalkeepers, the Beavers looked to keep up their momentum from the previous season.

The season started off strong, with the team winning four of their first six games, led by the scoring efforts of Chris Bradley ’17 and Jim Blackwood ’16. Though the Beavers dropped their next 5 games, they were able to find their first NCAA win against Penn State Behrend. The Beavers were tied at halftime 3-3 as a result of many crucial saves by Charles Ross ’19 and three goals from Blackwood ’16, but in the third quarter, the Beavers exploded for five goals, with three from Bradley ’17 and two from Patrik Eck ’16. They never looked back, clinching the victory 10-9.

The team went on to win two of their next three matches before the start of the conference season. Though the Beavers were unable to find a victory, conference play was highlighted by several close games, including a thrilling Orange Out versus Occidental College. “It was such a new and amazing experience for me, having the entire pool deck crowded with people cheering for us was nothing short of extraordinary. Plus we played a really good game that night,” recalls Billy Bloomquist ’19.

The season ended on a positive note with two very close games versus Occidental and La Verne, with goalie Shaurya Gilani ’19 racking up 38 saves over the two matches.

“Having the entire pool deck crowded with people cheering for us was nothing short of extraordinary” - Billy Bloomquist ’19

Men's Water Polo | 027
1. STICKY HANDS. Jim Blackwood’s ’16 grip on the ball defies gravity as he leaps out of the water.
2. RISE ABOVE. Despite the opposing player’s hand pushing him down, Chris Bradley ’17 manages to rise out of the water as he looks to shoot.
3. COUNTERATTACK. Richard May ’18 dribbles the ball and sprints to offense.
4. TIME’S UP. Galen Gao ’16 makes a last ditch attempt to shoot as the shot clock winds down.
5. KEEP AWAY. Billy Bloomquist ’19 holds the ball out of the reach of surrounding defenders.
6. SHOTBLOCKER. Charles Ross ’19 looks around the shotblocker in front of him for a teammate to pass to.
7. ON THE SIDELINES. Coach Jon Bonafede focuses intently on the game while players take a breather on the bench.

"I can say with great confidence that this year’s team was the best Caltech has seen for many years, if not ever."

- CHRIS BRADLEY ’17

"Being able to see myself and the team get better as the season progresses and over my four years here has been a rewarding experience and inspires me to continue to keep doing the same in the pool and elsewhere in life."

- GALEN GAO ’16

"My teammates really inspire me as an athlete. Practicing with them every day, seeing how hard we all work, all that makes me want to be the best I can."

- BILLY BLOOMQUIST ’19
SPOTLIGHT: PATRIC ECK

What was your team's biggest accomplishment?
As a team, it would definitely be the 2 close games we played at SCIAC Championships this year. We had a legitimate chance of beating a team (La Verne) who nearly beat the most talented team in our conference (Whittier) the day before. That's something I could not have said 3 years ago, or even last year.

What was your most memorable moment of the season?
Definitely our Orange Out game against Occidental. Playing against our biggest rival under the lights and in front of our huge home crowd was an experience I won't be forgetting any time soon.

What inspires you as an athlete?
Proving all the doubters wrong, even if nobody else notices.

What is your favorite thing about playing water polo?
The physicality of the game. Throwing a ball as hard as you can at a tarp is surprisingly effective at reducing stress.

“Our team will miss Patric in many ways next season, both as a great player and a great leader, but the lasting impact he has had on the program will carry on”
- Chris Bradley '17
With the departure of longtime coach Rolando Uribe, the soccer team was stepping into the unknown with the addition of new coach Phil Murray. It was an opportunity for a fresh start as the Beavers looked forward to reaching new heights in a competitive season.

Though the team did not post any wins, there were many bright spots during the season. The Beavers almost doubled their goal total from the previous year, scoring 11 goals over 18 games. The effort was aided by team captain Teo Wilkening ‘16, who led the way with 4 goals. Additionally, team captain J.D. Feist ‘17 led the conference for the second year in a row with 107 saves in goal.

The season was highlighted by a nail-biting match against conference foe California Lutheran University. The game opened with a Cal Lu goal in the seventh minute, but the Beavers quickly tied it up just two minutes later when Alec Sands ‘17 headed the ball to team captain Adam Ball ‘16, who tapped it into the net. Caltech took the lead at the opening of the second half on a goal by Teo Wilkening ‘16, but Cal Lu brought the score to 2-2 to close the half. Though the Beavers ultimately fell in overtime, the game was an inspiring demonstration of the team’s potential for the future. “This year we played aggressive attacking soccer, and that caused our opponents to fear us,” says Chris Haack ‘18.

“...” says Coach Murray. “The team is really buoyed by the feeling that we are starting something new and positive, and is committed to the growth and development necessary to help position the program to be successful in the future.” - Soumya Kannan

The Team: JD Feist ‘17, Monica Li ‘16, Ashwin Hari ‘18, Kevin Gao ‘17, Archana Chintalacharuvu ‘17, Tristan Nee ‘19, Jack Banaszak ‘19, Chris Haack ‘18, Alec Sands ‘17, Valentin Skoutnev ‘16, Schaeffer Reed ‘17, Nikhil Gupta ‘19, Teo Wilkening ‘16, Dave Luo ‘17, Masaharu Ono ‘18, Rafael Fuero-Gomez ‘19, Fabian Boerner ‘17, Pedro Ojeda ‘17, Federico Presutti ‘17, Adam Ball ‘16, Valerie Pietrasz ‘16

Coaches: Phil Murray, Pinder Nijjar, Brian Wright
1. **BURNIN' UP.** Valentin Skourtney '16 cools off during a rare water break in the middle of a game, necessitated by the intense heat of September in Southern California.

2. **THROW-IN.** Jack Banaszak '19 winds up for a hard throw to his teammates.

3. **HEADS UP.** Schaeffer Reed '17 fights off an Occidental College player to win the ball.

4. **BACK OFF.** Kevin Gao '17 traps the ball before it can be stolen away by a Cal Lu player.

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**Faith**
Playing with a group of friends that I enjoy spending time with and know very well inspires me to try my best both in practice and games as to not let my teammates down.

What is your favorite thing about playing soccer?

My favorite thing about playing soccer is that it is a great way to have fun and, for a few hours, forget about all my problem sets and exams that I have to study for.
What was your team's biggest accomplishment?
I think our biggest accomplishment was our greatly improved offense. We scored much more than last year and were much better at possessing the ball at times as well.

What inspires you as an athlete?
Seeing my teammates work hard and make plays inspires me to keep doing my best.

What is your favorite thing about playing soccer?
My favorite thing is the shared sense of success from playing good team soccer.
Every year, students extract themselves from the Caltech bubble and journey across the Atlantic Ocean to study for a term at one of Caltech's sister institutions. Studying abroad provides not only a break from Caltech, but an opportunity to have a new academic experience, travel to new places and make new friends. Students from Caltech studied at the University of Edinburgh, University College London, Cambridge University, and the Technical University of Denmark and used the opportunity to take classes not offered at Caltech. However, they also took advantage of the increased amounts of free time to travel to exotic places around Europe, getting a taste of the wide variety fascinating cultures. Being away from Caltech provides the opportunity for students to grow both academically and personally and learn about themselves and the world. - Soumya Kannan

1. KNIGHTS AND CASTLES. Sheila Lo '16, Jenny He '17, Lindsey Whitesides '17, Surya Sundarajan '17 and Christina Lin '17 visit St. Andrew's Castle in Scotland. 2. BAGPIPES. Jenny He '17, Sheila Lo '16, Judy Shon '17, Surya Sundarajan '17, Christina Lin '17 and Aditya Karan '16 snap a selfie with some colorful characters in Old Town Edinburgh. 3. MATRICULATION DAY. Lauren Li '17 and Stephanie Moon '17 snap a photo together in New Court of Corpus Christi College, Cambridge after their college matriculation ceremony. 4. MAKING FRIENDS. Webster Guan '16 and David Addis '16 hang out with new friends at a St. Catherine's College/Corpus Christi College slack (party) in Cambridge. 5. UP HIGH. Connor Lee '17, Jean-Alexandre Turban '16 and Grace Leishman '16 take in the view.
1. **LONDON BRIDGE.** Esther Du '16 and Jean-Alexandre Turban '16 pose in front of the Thames River, with the London Tower Bridge behind them.

2. **OPTICAL ILLUSION.** Juliet Su '16 "pinches" the famous glass pyramid in front of the Louvre in Paris.

3. **ROCK CIRCLES.** Students studying abroad at University College London (UCL) take a day trip to Stonehenge.

4. **PARIS, JE T'AIME.** Ellen Yu '17 and Gauri Shastri '17 enjoy a sunny day in front of the Eiffel Tower.

5. **HIGH TEA.** Stephanie Moon '17, Streevivas Appasani '16, Alex Pien '16 and Lauren Li '17 munch on proper English biscuits and tea at the Orchard in Cambridge.

6. **MI AMORE.** Alex Pien '16 and Juliet Su '16 smile in front of the Florence skyline, with the famous Duomo visible in the background.

7. **ROBES REQUIRED.** Webster Guan '16, Grace Lee '17 and David Ardis '16 attend a formal dinner at St. John's College in Cambridge.

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One of the perks of living in California is that the weather is sunny and warm 365 days of the year. On November 15, people attending the Diwali Show outside of Beckmann Institute Auditorium experienced a different California weather filled with rain, wind, and cold air. However, these conditions did not stop Diwali Show performers from firing up the stage with their energetic dances, melodic songs, and quirky humor. Although the show was short, it did not leave the audience unhappy, as everyone celebrated the rich Indian culture and one of the major Hindu holidays. Not to mention everyone left content, filled with delicious Indian food.

Diwali is known as the festival of lights and signifies the victory of light, or good, over dark, or evil. It is celebrated with family gatherings, new clothes, firecrackers, dancing and singing. It is like 4th of July, Christmas and Thanksgiving all combined into one holiday. So, add Diwali to your list of winter holidays, because you can never celebrate too much.

Caltech celebrated this holiday with a religious musical performance by Aadith Moorthy '18, a Diya dance performance using lamps by Tara Shankar '18, Anjali Premkumar '17, Meghana Pagadala '16, and Ellora Sarkar '16, a comedy performance depicting different regional Indian stereotypes by Chandru Dhandapani, a Bollywood dance performance by Caltech Dhamaka, and lastly, a girls-only performance by Tech Naach. Diwali Show was a great day to not only celebrate the Indian holiday, but also the talent at Caltech. Months of practices went into each performance to hit the perfect note, to solidify a certain dance move, or just to remember what to do. Reeti Gulati '19 reminisces, "Diwali show was a great experience! I'm so glad I joined Dhamaka first term because I got to meet lots of cool people!"

-Wanna be my Chamank Challo?
The dancing divas of Tech Naach spiced up the night with their dance. Tech Naach is the oldest Bollywood dance group on campus. They bring Bollywood classics to life while also mixing in new songs that show why Bollywood babes are the best.

- Are you a Dhamaka Devotee?

Every Diwali, Caltech's newest dance team - Dhamaka - never fails to impress. This year was no exception. Despite the winds and pouring rain, the team fired up the stage with a mix of some music favorites. This year, Dhamaka had a new cast of performers, as many members were freshman. However, all of the newest members were not afraid to step up to the challenge. One of Dhamaka's captains, Meghana Pagadala '16, expresses her delight: "I was so impressed with how excited, committed, and talented every Dhamakite was. It made the performance a lot of fun to put together. Also, I think the audience enjoyed our performance and that made me really happy."

"Diwali show was a great experience! I'm so glad I joined Dhamaka first term because I got to meet lots of cool people, especially upperclassmen I might not have met otherwise. All the practices were a blast as we struggled over the choreography together!" - Meghana Pagadala
1. The light-bulb
   Pretend that you are screwing in lightbulbs with both your hands.

2. Point the finger
   As a clarification, this is the index finger, not the middle finger. Combine this move with "the light-bulb" if you are creative.

3. The Booty-Shake
   Pretend you are Shakira and remember your "hips don't lie."

4. Roll the Chapati
   This is like the "Make the Pizza" move, but Indian style.

5. The "Does My Belt Fit?"
   This is mainly for the guys. Grab your belt with two hands and move your belt up and down. This move is perfect for swag people.
ACA-AWESOME. Diandra Almasco '19, one of the new freshman on Out of Context, sings Settle Down.

1. SUGAR. Out of Context member Ayaana Sikora ’18 sings Maroon V’s iconic “She Will Be Loved.”
2. TUNE IT UP. Lucy Chen ’17 combines her rendition of By the Seashore with some on-point choreography.
3. PITCH, PLEASE. The all-female and newest acapella group, The Pipettes, showed they were no joke, as Caroline Howard ’18 wowed the crowd with her moving delivery of Mercy.
5. BEAUTY AND A BEAT. Tara Shankar ’18 starts off the Justin Bieber medley with Justin Bieber’s first hit, Baby.
The four a cappella groups on campus - Fluid Dynamics, Key tones, Pipettes, and Out of Context - had their first concert of the year in Dabney Hall. With the beautiful venue packed, all of the groups did not fail to impress. Some crowd favorite arrangements included Out of Context's Justin Bieber mashup and Fluid Dynamics' Lion King feature. - Meghana Pagadala

Which A cappella group is your destiny?

You like punny science names

You are likely to name your first child Simba

Mice can climb up your toilets

Your sharpest accessory is a bowtie

You are a female

Fluid Dynamics

Out of Context

The Key tones

The Pipettes
1. **WOOKIE COOKIES.** Bhavana Rao '16, Ross Koval '17, and Keegan Mendonca '17 marvel at the mountains of "Wookie Cookies" in front of them.  
2. **CHOW DOWN.** Ricky Galliani '17 grabs some delicious breakfast food.  
3. **CHANDLER-INTERHOUSE.** Drew Schaeffer '18 shows off his moves to the theme-appropriate remixed Star Wars soundtrack.

The Food
Contrary to any logical assumption, Midnight Madness began promptly at 11:30 PM. This time around, a large crowd (by Caltech standards) gathered in front of the sole entrance to Chandler through which students were permitted to enter. After terms of unexpectedly rave-like events, the anticipation of what new and crazy ideas CDS would cook up was greater than ever (especially after the promo video).

Entering Chandler was an attack on the senses. The windows were blacked out with tarps, and the staff went above and beyond to create eight wallboards with a Star Wars-themed illustration for every House. The decorations also included a life-size Darth Vader flanked by two storm troopers, and all of the films were projected on various screens situated around the room. In the corner was a TIE fighter/DJ booth, in which the DJ was thematically playing music remixed to include Star Wars soundtrack snippets. "DJ was quality! With top notch transitions, original bootlegs fitting the theme and a high BPM, it definitely gave us a boost to continue forward with finals!" - Miguel Gonzalez '18

Students were also encouraged to tweet about the event using CDS's personalized hashtag for the event. Posted Alex Ryan '17, "free delicious food + dance music + #StarWars = #ChandlerInterhouse by @CaltechDining #TheseAreAFewOfMyFavoriteThings."

Overall, as has come to be the Midnight Madness standard, it was chaotic, loud, and difficult to see the contents of one's plate, but full of delicious food and a much-needed break from the stresses of finals week. - Soumya Kannan
This past December, a group of Caltech students participated in the Caltech Y trip to India, known as India Ki Khoj (In Search of India). They embarked on a 10-day journey to immerse themselves in the society, culture, and people of India. The program was designed and led by faculty members of the Humanities and Social Sciences Department at the Indian Institute of Technology, Gandhinagar in the state of Gujarat. Through stimulating lectures and diverse field visits, Techers were able to learn about India’s multi-faceted identity through topics that ranged from Bollywood to history and poetry. Moreover, they forged strong connections with the IIT Gandhinagar students. - Bianca Lepe
Search of India
WINTER TERM

M BASKETBALL 048
W BASKETBALL 052
M SWIMMING & DIVING 056
W SWIMMING & DIVING 060
FENCING 064
LOVE SUCKS 068
BOLDLY GO 070

Winter Term | 047
The most exciting thing about Caltech is that it is a place that is full of scientific history. As you walk into Gates, you are in the lecture hall where Linus Pauling taught. When you go to the Athenaum, you are walking along the same path that Albert Einstein did. This year, Caltech continued to add to its rich scientific history; however, it also made a little history in the athletic department.

The men’s basketball team won 7 SCIAC games this season, breaking the 1953-1954 record of 6 SCIAC games. They defeated Occidental College 3 times, which was another feat that has not been achieved since 1944-1945. They spent 22 days sharing the top position in conference standings. Nasser Al-Rayes ’17 set the record for single-season blocks (64) and single-game blocks (8). The team also set the record for single-season points (1566), rebounds (951), and blocks (105).

The boys started training for season early in fall and competed in several preseason matches. The first match was an exhibition game against Division I University of San Diego. This was the second year that Caltech played against a Division I opponent. More than 1000 people were in attendance (more than the undergraduate population!) and Caltech did not fail to disappoint. Kc Emzie ’16 scored 14 points. Ricky Galliani ’17 netted 13 points, while David LeBaron ’17 and David Kawashima ’18 recorded 5 and 3 assists, respectively. The much-anticipated 110 Freeway Rivalry game at Occidental College that the Beavers would play the next week, however, would be the start of an amazing winning season.

The Beavers won the 110 Freeway Rivalry game, becoming the only team in the SCIAC to start 1-0. LeBaron led the team with 25 points, and Galliani made 17 points and led the team with 9 rebounds. Although the following games against non-SCIAC foes Whitworth University, Whittier College, Linfield College ended in losses, the Beavers did not give up. They posted a win against UC Santa Cruz, where Rob Anderson ’16 scored 5 points and Lawrence Lee ’17 recorded his first double-double of the season. The Beavers took a break for finals and were back at it again over winter break.

SCIAC games started January 4, where Caltech defeated University of Redlands 46-41 during their Orange Out. It was an exciting and nail-bitting game with the stands filled and deafening cheering. Al-Rayes finished the night with 13 points and 8 rebounds, while Emzie scored 11 points. The following months, the excitement continued as the Beavers continued breaking records, accruing 7 SCIAC wins. The Beavers beat Cal Lutheran University (70-66), Occidental College (62-48), Pomona-Pitzer College (67-58), Occidental College again (65-59), Cal Lutheran again (64-60), and University of La Verne (65-61). At the game against University of La Verne, freshman Brent Cahl ’19 scored a career-high 24 points and led the Beavers to a win that put them in a four-team tie for fourth place. Unfortunately, the Beavers just barely missed the SCIAC Tournament and ended with two losses. However, the two thrilling games were still a step in the right direction. The Beavers sent off two seniors, Kc Emzie and Rob Anderson, who surely will remember this season. When asked about one word to describe his Caltech experience, Emzie responded, “This is kind of cheesy but I would use the word family. I’m originally from NC and didn’t get to go home too often so the team kind of became my second family....I couldn’t have asked for a greater group of guys to go through Caltech with.”

“I’m originally from NC and didn’t get to go home too often so the team kind of became my second family. Just like family you go through rough patches but I couldn’t have asked for a greater group of guys to go through Caltech with.” The men’s basketball team hopes to continue their victories next season with the two top scorers returning.

- Meghana Pagadala

**The Team:** Kc Emzie ’16, Andrew Wang ’19, David Kawashima ’18, Robert Anderson ’16, David LeBaron ’17, Ricky Galliani ’17, Brent Cahall ’19, Steven Brotz ’19, Matthew Edwards ’17, Lawrence Lee ’17, Nasser Al-Rayes ’17

**Coach(es):** Oliver Eslinger, Dave Briski, Ronn See, Jordan Mast
1. **BALL IS LIFE.** The team stands in a line for the national anthem before a much anticipated game against University of Redlands. On Jan. 4, the Caltech Beavers won their first game of the conference season 46-41 against Redlands Bulldogs. 2. **LAYUP.** Lawrence Lee '17 smoothly lays up the ball from the post position. 3. **DOUBLE TEAMED.** Ricky Galliani '17 penetrates the defense and goes up for a shot. As captain, Galliani led the team in 3-point field goals made. 4. **BUCKET!** Although Brent Cahill was new to the Beavers this year, he did not stop making his mark, shooting an average 10 ppg and receiving many compliments from coaches, teammates, and athletic department. 5. **WE'RE ALL IN THIS TOGETHER.** David Kawashima '18 and Lee help KC Emozie '16 up after being fouled. Emozie led his team in field goals made.

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**SPOTLIGHT**

**HEAD COACH**

**OLIVER ESLINGER**

How do you think your coaching style has changed from the first year you were at Caltech to this past season? I've had a similar style as far as how I interact with players and invest in the students' well-being, but as we've improved over the years we're able to teach much more complex skills and implement high-level strategies. **What do you think distinguished this season from past seasons that translated to so many conference wins?** We've been fortunate to coach some very committed athletes and have grown our support base of fans dramatically. From recruiting to promoting our program to having a great coaching staff and people who truly care about we're doing, it all translates to success. **You were recently named NABC Guardian of the Game. What did this honor mean to you?** Oh, that was the greatest honor. I consider that the most prestigious award because it's more than basketball— it's about what we do off the court as educators. Receiving the award during Final Four weekend amongst NBA and college coaches and players was the best. **What were some difficult situations that you felt motivated the team's success this year?** Anytime we don't come out on top at the end of a game we feel like we should win, it's difficult, but we take it all in stride and definitely use it all as inspiration. We challenged ourselves to improve and learn from it all. The non-conference is about preparing for conference and we can see how it influenced us down the stretch. **Do you watch the NBA or college basketball? If you do, who is your favorite team and/or favorite coach? Why?** I watch all levels of basketball and have many teams and coaches I follow. They have different styles, and that's what's so great about basketball. Teams can be very good and very different. I like teams who move the ball well, who play tough defense, and come up with creative ways to play.
SPOTLIGHT: KC EMEZIE

In ten years when you look back at your basketball experience, what is one memory that you will remember?

I’m going to cheat and give you two. The first is the Redlands win during my Junior year as it broke the conference losing streak and then spurred a string of conference wins. The second would be the win against Occidental this year to start the season as it was the perfect team game. Everybody played with confidence and it was great to see guys like David LeBaron and newcomer Brent Cahill have breakout performances on a big stage.

If you could use one word to describe your basketball experience at Caltech, what would it be?

This is kind of cheesy but I would use the word family. I’m originally from NC and didn’t get to go home too often so the team kind of became my second family. Just like family you go through rough patches but I couldn’t have asked for a greater group of guys to go through Caltech with.
Although the women’s basketball team was small this year, they were mighty, setting several records and achieving many noteworthy accomplishments. Senior Stephanie Wong ’16 returned for her final year of Caltech basketball. In addition, Kate Lewis ’17 and Michelle Wong ’17 returned. The returners were joined by entering freshman, Nika Haleftiras ’19, Madelyn Stroder ’19, and Elizabeth Eiden ’19. The Beavers had their first game against Linfield during the Thanksgiving holiday. Although it was a tough loss, the team recouped and scored a mega win against Illinois Tech 79-38. The win was thanks to several extraordinary performances, including ones by Stephanie Wong, who compiled 24 points and tied her own program record of 7 three-pointers in a game, Kate Lewis, who double-doubled with 16 points and 14 rebounds, Michelle Wong, who scored 13 points and grabbed 6 rebounds, and Madeline Schemel, who scored 12 points and pulled down 7 boards.

Even though the next win that Beavers got at Crossroads College on their trip to Minnesota was their last, the season was not devoid of amazing achievements. As a team, the women set a record for most three-pointers in a season (99) and field goal percentage (.359). Senior Stephanie Wong set the program record for career points (1333). In addition, she became the career leader in points per game (13.7), free throw percentage (.698), field goals made (441), three pointers made (231), and single-season mark for three-pointers made (68). When asked about her amazing time at Caltech, she replied, “It means a lot to me that I was able to stick with basketball all four years and achieve so much... In the end, I'm glad I had the perseverance to keep going and do the best I could.”

- Stephanie Wong ’16

One of the most memorable moments of the season came on January 26, when the team almost got their first SCIAC win for the season. They had a 42% field goal percentage, 39% three-pointer percentage, and a whopping 80% free throw percentage. Not only did the team shoot incredibly well, but freshman Madeline Schemel started for the first time and Stephanie Wong surpassed the record set by Lindsey King ’08 for career points. Nika Haleftiras ’19 grabbed a high 8 rebounds and chipped in 9 points. Schemel added 10 points, 5 rebounds, 3 steals, 2 assists, and 2 blocks.

On February 23, the Beavers said goodbye to their only senior, Stephanie Wong, who revolutionized the women’s basketball team. Although the team was very young this year, with almost half of the team comprised of freshman, the talented freshman and outstanding returners put together an unforgettable season. Only having lost 1 senior, the Beavers hope to come back stronger and better next season.

- Meghana Pagadala

The Team: Stephanie Wong ’16, Kate Lewis ’17, Michelle Wong ’17, Nika Haleftiras ’19, Madelyn Stroder ’19, Madeline Schemel ’19, Elizabeth Eiden ’19

Coaches: Sandra Marbut, Sarah Wright ’13, Dennis Ko, Bitsy Messick, Jessica Watkins

Photo: Michael Wong. Layout: Meghana Pagadala
1. **CLUTCH.** Elizabeth Eiden '19 goes up for a left-handed layup, using her height as an advantage. Eiden led the team in field goal percentage (.417) and accumulated 130 rebounds during the season.

2. **FULL FOCUS.** Madeline Scheme! '19 shoots her second free-throw after a foul call. Although she was a freshman, Scheme! '19 made important contributions to the team and even finished the season with a double-double.

3. **GETCHA HEAD IN THE GAME.** Madelyn Stroder '19 passes the ball off to her teammate.

4. **NOW OR NEVER.** Coach Marbut talks to the team during a 30-second timeout. Assisted by Sarah Wright '13, Dennis Ko, Bitsy Messick, and Jessica Watkins, Marbut helped lead the team to two wins and several close games. She has been at Caltech since 2003.

5. **DRIBBLE TO THE MIDDLE.** Michelle Wong '17 uses her mad dribbling skills to split the defense as she tries to look for someone to pass to. Wong led the team in free throw percentage (.885), 3-point percentage (.316), assists (67), and steals (48). Still a junior, Wong has another season to continue to excel.

6. **COURT SENSE.** Kate Lewis '17 gets a look at her defender before proceeding to make a move. Lewis led the team in offensive rebounds (82) and defensive rebounds (144). Lewis dominated in the defensive boards, posting several double-doubles throughout the season.

7. **SPACE JAM.** Nika Halefiras '19 tries to speed past her defender as she crosses half-court.
When did you first realize that you loved basketball?
Right when I first started. I was beyond excited when my parents let me switch from swimming to basketball when I was 10. I had always wanted to try it before that.

What was the hardest thing about the transition from high school basketball to Caltech basketball?
The pace of the game increases significantly. The girls are all faster and stronger.

If you could use one word to describe your basketball experience at Caltech, what would it be?
Rewarding.

In ten years when you look back at your basketball experience, what is one memory that you will remember?
The two well earned wins we got at the end of my junior year against La Verne and Occidental.

1333 Pts
231 three-pointers
441 field goals
.698 free throw percentage
13.7 ppg
With 10 school records falling at the SCIAC championship meet, ending in the highest point total in recent memory, the men's swim team had an unprecedented season.

After beginning the season in October with meets against Pomona-Pitzer, the Beavers continued to compete in conference dual meets through November and December. After a tough winter training, the team came back ready to go, and it showed in victories over Whittier College and Chapman University, as well as a heartbreaking one point loss to La Verne.

The Beavers swam under the lights in their home pool against Occidental College on February 2 in a memorable Orange Out meet featuring a bevy of exciting races. Freshman Henry Steiner '19 led the charge, coming from behind to chase down an Oxy swimmer in the 200 IM for the victory, followed by a clutch first place finish in the 100 butterfly. "There were so many close swims, upsets, and out-touches that it kept the whole team on their feet the whole time. The men's teams even ended in a tie which was pretty crazy," recalls Dylan Lu '19.

The season was capped by a memorable performance at the SCIAC championships. Day 1 of the four day meet was highlighted by a record-shattering seventh place finish in the 800 freestyle relay, just .14 seconds short of sixth place. The team of Lu '19, Hanzhi Lin '18, Patric Eck '16 and Steiner '19 posted a 7:09.96, breaking the previous year's mark by almost 9 seconds.

Records continued to fall in Day 2, as Lu '19 smashed the 17-year-old 500 freestyle record during the preliminary heats and Steiner '19 followed by breaking a 35-year-old record in the 200 IM. The night ended with Eck '16, Kevin Yu '16, Steiner '19 and Jonathan Willett '19 setting yet another program mark in the 200 freestyle relay. The third day saw Steiner '19 set the 100 butterfly record, followed by Adam Dai '19 breaking the 100 breaststroke record from 1989 by over 1.5 seconds. The night was rounded out by the freshman quartet of Lu '19, Dai '19, Steiner '19 and Willett '19 setting a program record in the 400 medley relay. The meet concluded with three more records falling on the last day: the 200 backstroke by Lu '19, the 200 butterfly by Steiner '19 and the 400 freestyle relay by the team of Eck '16, Willett '19, Lu '19 and Steiner '19. "During the four days I was there I felt totally absorbed in the meet. The atmosphere was amazing, and I was able to focus completely on my races and support my teammates. Overall, I'd say that I will definitely look back on SCIACs as a highlight of my experience at Caltech," says Dai '19 of the experience.

With plenty of young talent, the Beavers are only headed in one direction: upwards. - Soumya Kannan

**The Team:**
- David Berger Maneiro '19
- Aadyot Bhattachar '19
- Alexander Bourzutschky '18
- Matthew Cedeno '16
- Adam Dai '19
- Patric Eck '16
- Galen Gao '16
- Eshan Govil '19
- David Gunby '19
- Hanzhi Lin '18
- Dylan Lu '19
- Avikar Periwal '18
- Alexander Reeves '19
- Henry Steiner '19
- Ishwar Subramaniam '18
- Jonathan Willett '19
- Kevin Yu '16

**Coaches:**
- Jack Leavitt (Swimming)
- Ute Zimmerman (Diving)
- Connor Beaulieu
FORWARD
FIRST IN THE WATER. Thanks to a comfortable lead provided by Dylan Lu ’19 in the backstroke leg, Adam Dai ’19 is first off the blocks in the breaststroke leg of the 200 medley relay, the opening event of the Beavers Orange Out meet versus Occidental College.
1. **MAKING WAVES.** Adam Dai ’19 parts the water in front of him as he shoots his hands forward during the 100 breaststroke.  

2. **BREATHE IN, BREATHE OUT.** Hanzi Lin ’18 tenses up for an explosive backstroke start.  

3. **YMCA.** Alex Bourzutschky ’18 assumes his ready position and mentally prepares himself for a 3m dive.  

4. **VICTORIOUS.** Arik Perwal ’18 shakes his opponent’s hand after finishing in first place in the 1000 freestyle at the Orange Out meet versus Occidental College.  

5. **OFF THE BLOCKS.** Dylan Lu ’19 leaps from the blocks in the 200 free versus Occidental. Lu went on to win the event in a blisteringly fast time of 1:49.52.  

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**SPOTLIGHT:**

**KEVIN YU**

**What was your team’s biggest accomplishment this season?**

We broke a lot of records and did a lot of amazing things this year, but the biggest accomplishment is always just being able to wake up for morning practice. I think people do not realize the amount of time and effort that each swimmer takes to try and get better week after week.

**What inspires you as an athlete?**

My teammates are always a big part of my inspiration, especially the freshmen. It is good to see people so excited and optimistic about swimming. We suffer, joke, play and have fun with each other and ultimately my teammates are the ones I become closest to and they inspire me to keep pushing the boundaries. I think it’s also in my nature to always strive for the best while doing something that I love, am good at, and is good for my health.

**What is your favorite thing about swimming?**

When I am sprinting, I feel like I am flying in the water.
Turning
With the addition of top recruits Brittany Percin '19 and Gemma Takahashi '19, women's swimming and diving at Caltech is on the rise.

The season began in late October with a bang at the opening dual meet against Pomona-Pitzer, when Percin broke her first school record in the 200 freestyle with her first swim in a Caltech suit. This would go on to set a trend for the season, as school records fell left and right.

Just a week later, Percin led off the 400 freestyle relay at the annual Pomona-Pitzer Relay Invite in a 55.03, just barely sneaking under the previous school record in the 100 freestyle of 55.04 to take that record as well. In the home opener against the University of Redlands, Percin lowered her own 200 freestyle record and broke the 500 freestyle record, while Takahashi added one of her own in the 100 backstroke.

After a break in competition, the team came back strong in a dual meet against California Lutheran in mid-December. Percin, Takahashi and Zofi Kaczmarek '17 combined to win eight of the eleven events contested. Percin shattered the 1650 freestyle school record, as well as the 1000 freestyle school record in the first 1000 yards of the same race, while Kate Evans '17 and Grace Lee '16 also dropped significant time to record personal bests.

Returning from winter break, the Beavers competed against both Whittier College and Claremont-Mudd-Scripps in a double-dual meet. This was followed by another double-dual meet against the University of La Verne and Chapman University that saw Percin put her name on the record board once again in the 400 individual medley and Takahashi take down another school record in the 200 backstroke.

In the final home meet of the season, the team's Senior Day and Orange Out against Occidental College, the swimmers were solid in their final meet before SCIAC championships. They also bade farewell to three seniors - Grace Lee '16, Alexandra Ilic '16 and Tiffany Zhou '16.

On Day 1 of the championship meet, Percin kicked things off by breaking the school record in both the 100 and 200 freestyle in the opening leg of the 800 freestyle relay. Overall, the team garnered 50 points on the first day, already bettering the previous year's total score of 21 points in just one day. On the second day, the Beavers continued their upward momentum as Percin and Takahashi each notched one school record, in the 500 and 500 freestyle respectively.

On Day 3, Percin familiarized herself with the podium when she won the title in the 200 freestyle, becoming the first female SCIAC champion in Caltech swimming and diving history. 'Brittany was standing on the podium in first place and we did her pi cheer, which ended with 'we have won one race to date.'” recalls Gemma Takahashi '19 of the history-making moment. The Beavers closed out the meet and the season with an incredible Day 4 in which Percin and Takahashi combined for three school records, with Percin reaching the podium again with a third place finish in the 500 freestyle.

Though the Beavers will lose head coach Jack Leavitt, who will take over the coaching job at Division I Georgetown University, they look to improve in the upcoming year with a fresh crop of talent to add to the already-impressive pool. "I think bringing these girls together as a recognized force in DIII swimming was the team's biggest accomplishment," says Takahashi. - Soumya Kannan

The Team: Robin Brown '18, Kate Evans '17, Alexandra Ilic '16, Zofi Kaczmarek '17, Grace Lee '16, Brittany Percin '19, Gemma Takahashi '19, Xiaohan Xue '19, Tiffany Zhou '16

Coaches: Jack Leavitt (Swimming), Ute Zimmerman (Diving), Connor Beaudieu

Women's Swimming & Diving | 061
SPOTLIGHT: BRITTANY PERCIN

What was your team’s biggest accomplishment this season?
My team broke pretty much every record on the record board, which was super exciting.

What was the most memorable moment of the season?
The most memorable moment was a shaving cream battle the night before SCIAC.

What inspires you as an athlete?
My teammates. When they are able to juggle academics, extracurriculars, and still give it their all at practice, I’m encouraged to do the same.

What is your favorite thing about swimming?
I love being in the water, and I love the feeling of pushing myself with the encouragement of my team.
1. **PERFECT TEN.** Zofii Kaczmarek '17 executes a dive in perfect pike position.

2. **JUST RELAX.** Tiffany Zhou '16 hangs out with her teammates during a break between her races.

3. **IN THE BLEACHERS.** Tiffany Zhou '16 and Gemma Takahashi '19 cheer on their teammates from the sidelines during the Beavers' Orange Out meet against Occidental College.
Fencing is different from most Caltech sports in many ways. For one thing, it is Caltech's only Division I sport, and for another, competitions occur throughout the entire year. This year, competition began in October with the IFCSC Open, hosted at Caltech. At this opening tournament, Caltech fencers showed that they would be the ones to beat this season.

Emilia Hernandez '16 and Christina Meyer '17 placed third in foil and épée respectively, while on the men's side, William Wang '19 and Matthew Jin '17 won the épée and foil disciplines respectively. The Beavers continued their dominance on the road at UC San Diego, following that performance up with a meet against UC Riverside at Caltech. This ended competition for the fall.

After a winter break hiatus, the Beavers came back strong in January. The new year started off with the West Invitational at UCSD, where the Beavers took on many tough opponents in the West Region. Despite the impressive competition, Caltech was even more impressive. On the men's side, Caltech claimed the overall title, while on the women's side, Madeline Lewis GR led the épée squad to a 3-3 record.

At the end of January, the team took their annual travel trip to Illinois to compete at the Northwestern Duals competition. At this prestigious meet, the Beavers faced a slew of nationally ranked Division I foes, but they were up to the challenge. Facing this tough competition, including teams from Princeton University and the University of Notre Dame, the women's team picked up wins in a pair of NCAA matchups and lost by only a narrow margin to nationally ranked fencers. The men's team was undefeated on the first day of competition with four team wins and won several bouts against nationally ranked foes on Day Two. The tournament was also a valuable bonding experience for the Beavers' fencers. "The most memorable thing this season would be the team just enjoying ourselves at our travel tournaments. Even though the tournaments were hard, it was also nice to just socialize as a team and support each other," recalls Spencer Strumwasser '18.

Throughout February, Beavers fencers competed against conference opponents, building up to the IFCSC Championships at the end of the month. At the Championships, the men's squad placed second overall, thanks in part to first place finishes by Qi'an Wang '19 in épée and Matthew Jin '17 in foil. For the women, Christina Meyer '17 finished third in épée and Emilia Hernandez '16 finished third in foil en route to a fourth place finish for the team overall.

Junior Christina Meyer continued her dominance, qualifying for the NCAA West Regional, along with freshman Alex White. Both competed at the meet at the US Air Force Academy in Colorado.

After a successful season, the team looks forward to next year when they will return many key fencers while looking to improve in conference standings. -Soumya Kannan

The Team: Nina Badizadegan '16, Kai Chang '17, Marco Cruz-Heredia '17, Jimmy Hamilton '18, Matthew Jin '17, Alex Lew '16, Ethan Lo '18, Keegan Mendonca '17, Julius Oppenheim '19, Aaron Shah '19, Spencer Strumwasser '18, Qi'an Wang '19, Alex White '19, Will Yu '17, Anne Chen '19, Jennifer Du '19, Mary Glabronen '19, Claire Goessner-Wald '19, Emilia Hernandez '16, Cindy Huang '19, Shi En Kim '16, Madeline Lewis GR, Christina Meyer '17, Catherine Pavlov '16, Maia Stiber '19, Anne Zhou '19

Coaches: Carla Corbit, Margo Miller, Kevin Barkett
What was the team’s biggest accomplishment this season?
Our biggest accomplishment this year was definitely coming second in the IFCSC, where we competed against schools like UCSD, USC, UCI and Arizona State.

What inspires you as an athlete?
My inspiration as an athlete is to have fun. I first got into fencing cause I didn’t enjoy other sports, and I really liked the idea of fighting with swords. Once I got into it, I realized I really liked to fence, but I winning always makes things better. So in order to do that, I tried my best to win as much as possible while I fenced.

What is your favorite thing about fencing?
My favorite thing about fencing is the fact that most people who fence are super friendly. At competitions you can meet people and become long lasting friends simply by noticing the same people at your local tournaments. The fact that it is so easy to make friends with a current and future opponent is really cool in my opinion.
FIRST TOUCH, Shi Er '16, taps her opponent before the opposing fencer can do anything to stop her.
Of the three concerts hosted by Caltech a cappella groups every year, the most highly anticipated is Love Sucks, which celebrates Valentine's Day and Caltech's historically unfortunate gender ratio. In addition to the Caltech groups, a cappella ensembles from other schools are invited to perform at the February concert. This year, we had four groups from UCLA, CSUN, and USC join our four on-campus groups.

The show appropriately began with a performance of Adele's hit "Hello" by The Pipettes — Caltech's first all-female group founded in 2014. The Pipettes made Caltech a cappella history by performing the full dance to "Gee" by Girls' Generation while singing their parts. Their spot-on performance brought smiles to everyone's faces. Jessica Lam '16 reminisces, "We had a blast learning to dance and sing in Korean for 'Gee.' I remember having so much fun at rehearsals and even practicing the choreography at our Six Flags retreat!" Following the Pipettes was Deviant Voices from UCLA, who added interesting harmonies to "Sorry" by Justin Bieber. Up next, Vocal Percussion Radio from CSUN brought cheesy choreography and constant energy on stage in songs like "Waka Waka" by Shakira, creating one of the most enjoyable performances of the night. Next, Cadenza A Cappella, an all-female group from UCLA, showed their stylistic range with an 80's rock medley and a chilling rendition of "Fix You" by Coldplay. Closing the first half of the concert was Out of Context (OoC), Caltech's oldest a cappella group. OoC performed an energetic arrangement by Shalini Majumdar, one of the group's alumni, of a haunting original song by 15-year-old Shivani Chatterjee called "Demons."

The Caltech Keytones kicked off the second half of the show. The all-male group — in their adorable bowties — added a choral song, "Loch Lomond", to their classic crowd-pleasers like "I Want it That Way" by the Backstreet Boys. Next up was UCLA Awaken. Their performance of Frankie Valli's "December 1963" was a stand-out for the night with their bass soloist engaging the audience with his dance moves and smooth tone. The fourth and final non-Caltech group was USC Overflow — a group that has consistently wowed the Love Sucks audience in recent years. Their rendition of Mama's Broken Heart was most memorable, with a powerful female soloist and soulful backing. Closing Love Sucks 2016 was Caltech's Fluid Dynamics (FD), who made the audience laugh with a theatrical rendition of Rob Cantor's "Shia Lebeouf." In a performance of Queen's "Under Pressure" they showcased their precision, layering ability, and talented soloists.

In case you missed the concert, catch videos on senior Auggie Nanz's YouTube channel (auggien) and find more recordings on the groups' individual channels. - Anjali Premkumar
LEVELS. Roel Rodriguez '17 and Graham Schmidt '16 combine their vocal forces to deliver an intense arrangement of Queen's "Under Pressure."
Starring Caltech graduate student Kelvin Bates as Captain Kirk, co-playwright Cole Remmen as Mr. Spock, and Caltech alumnus Allen Corcoran as Dr. McCoy, the musical parody of Star Trek known as Boldly Go! took its viewers on a rollicking ride through outer space onboard the famed U.S.S. Enterprise, brimming with jokes for both the average theatergoer and the seasoned Star Trek fan, telling its story through song and dance.

The entire production took over a year to prepare. The show was written by Grant Remmen, a Caltech graduate student in physics, and his brother Cole. The Remmens approached Brian Brophy, director of Theater Arts at Caltech, and who guest starred on Star Trek: The Next Generation, to produce and direct the show. Brophy agreed, inviting his acting friend and Star Trek: Voyager star Robert Picardo to play a cameo role in two performances of Boldly Go! As with all theatrical productions at Caltech, Boldly Go! would not have been a success without the enthusiasm and generosity of the whole Caltech community. Caltech students, staff, alumni, as well as JPL and community members contributed their precious time to costume design, makeup design, set design, prop design, choreography, and publicity.

The result was nothing less than spectacular. For two weeks, Ramo auditorium was transformed into the Starship Enterprise and various otherworldly locales. Inside, sellout crowds would watch Caltech scientists and engineers embody timeless Starfleet officers, bat’leth-wielding Klingons, and blue-skinned Andorians. The show’s popularity spurred Theater Arts at Caltech to add an unprecedented seventh show to the billing midway through its run. Boldly Go! had truly gone where no Caltech musical had gone before. - Michael Wong

Photos: Michael Wong, Bob Paz, Meghana Pagadala. Layout: Meghana Pagadala

LIVE LONG and PERFORM
BASEBALL 074
W WATER POLO 078
M TENNIS 082
W TENNIS 086
TRACK AND FIELD 090
STAR WARS FAKE 094
ASCIT FORMAL 096
DANCE SHOW 098
OASIS SHOW 100
DITCH DAY 102
TECHSTOCK 106
ACAPALOOZA 108
SENIOR DINNERS 110
COMMENCEMENT 112
...til it’s over” goes the famous quote by baseball legend Yogi Berra, and the Caltech team certainly followed this saying, fighting through many close games this season.

The Beavers opened competition on Valentine’s day with an exciting doubleheader against La Sierra. After losing an extremely close contest in the first game 6-7, the Beavers prevailed in the second game 9-6, with freshman Jonah Krop ’19 picking up the win. “One of our biggest accomplishments of the season was opening the year two close games, and a win, against La Sierra College. It helped motivate us as a team to show us from the start of the season that we were on the right track to being a legitimately competitive team,” says Krop ’19.

Conference play began soon after, with the Beavers facing Occidental College and California Lutheran University in late February and early March. This featured several close games, including a close 6-9 loss to Oxy.

Building on these improvements, the Beavers picked up their second win of the season against Augsburg, coming out on top with a score of 5-4. In an exciting match featuring clutch RBI’s by Tucker Reese ’19, Garrett Levine ’18 and David Watson ’18, junior Kai Kirk ’17 picked up the first quality start in his career in a Caltech uniform.

Though the Beavers were unable to find another win, the season featured several close games, including against Macalester College and conference opponents Redlands and Whittier. They also suffered a tough extra-innings loss to Claremont-Mudd-Scripps. “I was most proud to be a part of a team that competed and stayed in every game, whether it was February or May, and whether we were down one run or ten,” says Tucker Reese ’19.

The Caltech squad showed vast improvements this season. Freshman catcher Mark Burleson ’19 tied the single-season doubles program record. He was joined in making history by senior Daniel Chou ’16, who leads in all-time at-bats and games played. The team also improved in every offensive category, and looks ahead to building on these improvements next season. - Soumya Kannan

The Team: Chris McCarron ’18, Dylan Schultz ’16, Will Werst ’19, Chris Bradley ’17, Daniel Chou ’16, Schaeffer Reed ’17, Garrett Levine ’18, Connor Moffatt ’19, Harrison Jacobs ’18, Tucker Reese ’19, Jonah Krop ’19, John Galden ’17, Mark Burleson ’19, David Watson ’18, Kai Kirk ’17, Tim Menninger ’17, Mike Klionsky ’16

Coaches: Matthew Mark, Omar Pena, Mark Davis
1. **TAKE A KNEE.** Harrison Jacobs '17, Daniel Chou '16 and Shaeffer Reed '17 respectfully take a knee in the outfield while waiting for an injured player to be treated. 2. **SOUTHPAW.** Left-handed pitcher Kai Kirk '17 winds up to pitch to an Occidental College batter. 3. **IN THE CROUCH.** Tim Menninger '17 awaits the pitch as the umpire breathes down his neck. 4. **BACK OFF.** Daniel Chou '16 prepares to pitch, staring down the Occidental batter.
STAR SPANGLED BANNER. The team holds their hands over their hearts while the national anthem plays before a game against Occidental College on February 27.
1. HIGH FIVES. The Beavers exchange a final round of congratulations with the Whittier Poets following their last game of the season. 2. JUMP BALL. Mark Burleson '19 makes a leaping catch to rob the opposing team of a hit. 3. ELECTRIC SLIDE. Connor Moffat '19 beats the throw, sliding into the base before the Occidental player can catch the ball. 4. HITTING IT OFF. Harrison Jacobs '17 connects with the ball for a hit. 5. FIST BUMP. Dylan Schultz '16 is all smiles while receiving a congratulatory fist bump from Coach Matthew Mark as he runs off the field after an inning.

SPOTLIGHT: GARRETT LEVINE

What are you most proud of about the team this season?
I'm most proud of the growth we showed as a team this year. We had a blend of older and younger players, and we definitely put ourselves in a position to not only play our best baseball at the end of the season, but also give the team momentum moving forward.

What was the most memorable moment of the season?
Every other year, we take a trip over Spring Break, and we went to Tucson, AZ this year for a long weekend. While I traveled with club teams in high school, getting to travel with my college baseball team is something I'll never forget.

What inspires you as an athlete?
Baseball's always been a part of my life. My grandpa played for Ohio State in the 1940s and was the one who both taught me to love the game and still inspires me today.
Under the Surface

When the first win since 2012 comes during the first tournament of the season, you know it will be one for the record books.

The Beavers’ season started off strong when the team traveled to Minnesota for a tournament hosted by Macalester College, during which several program records were set. The tournament began with three losses, including a tough defeat to Monmouth University, in which Soumya Kannan ’16 had a program-record 7 exclusions drawn. However, in the final game against Macalester College, the Beavers notched their first victory. Katie Johnston ’19 scored a program-record 9 goals and Mary Boyajian ’17 added a program-record 6 assists during the game, with Johnston’s performance earning her the recognition of SCIAC Female Athlete of the Week. This was only the start to a season filled with accolades and improvements across the board.

“It was inspiring to see my teammates working hard to get better every day,” recalls senior Soumya Kannan.

Following another tournament at the Claremont Colleges, the Beavers were well-prepared for their home opener against Penn State Behrend. In a tough battle, the Beavers prevailed to pick up their second win of the season, bolstered by 4 goals each from Mary Boyajian ’17 and Brittany Percin ’19. The Beavers kept their home streak alive by defeating Macalester College once again, thanks to a stellar performance in goal by Elise Cuts ’19. Tying the program record for 3 wins, the Beavers were unable to pick up another, as they dropped their next match against Connecticut College in a heartbreaking overtime loss.

The conference season followed, and though the Beavers were unable to find a win, the conference season featured several close matches, including a 3-goal defeat to SCIAC powerhouse Claremont-Mudd-Scripps. The Beavers finished their season with many new program records and awards. Brittany Percin ’19, Soumya Kannan ’16 and Katie Johnston ’19 all entered the top 10 in single-season goals, with 52, 42 and 24 respectively, and Mary Boyajian set the single-season record in assists with 34. Additionally, Percin and Johnston were named DIII All-American Honorific Mention, and Kannan was selected as a SCIAC nominee for NCAA Woman of the Year. - Soumya Kannan

The Team: Elise Cuts ’19, Katie Johnston ’19, Soumya Kannan ’16, Devi Ganapathi ’18, Cameron Earl ’18, Alex Ilie ’16, Brittany Percin ’19, Sashka Zemský ’17, Gemma Takahashi ’19, Hana Keller ’19, Stephanie Wong ’16, Ciara Oerder ’18, Mary Boyajian ’17

Coaches: Jon Bonafede, David Robles
1. **ONE ON NOBODY.** Katie Johnston '19 takes an open shot on goal, facing down the California Lutheran University goalkeeper. 2. **SPOTTED: KILLER WHALE.** Brittany Percin '19 uses her strength to throw off multiple defenders. 3. **CUTOFF.** Stephanie Wong '16 cuts off her defender as she races down the pool during a speedy counterattack. 4. **STOP RIGHT THERE.** The opposing team's shot heads straight for the perfectly placed outstretched arm of Beavers goalkeeper Else Cuts '19.
What was your team’s biggest accomplishment?
This year, I think it was that our ability to score goals increased a lot from previous years. I think within our first five or six games, we had probably outscored ourselves from last season.

What was the most memorable moment of the season?
Definitely winning our first game during our team trip to Minnesota against Macalester College. It was the first game the team has won since 2012 and the first since I’ve been at Caltech, so it was very memorable for me.

What inspires you as an athlete?
I am inspired by my coaches, teammates and opponents - my coaches and teammates because I want to live up to their expectations and do well for them, and my opponents because I want to beat them. My drive to accomplish all of that inspires me to work hard every day in practice.

What is your favorite thing about playing water polo?
Water polo is a game that combines everything that sports are about - creativity, athleticism, teamwork and individual accomplishment. The best players are not necessarily just the fastest or strongest (although that does help), but they are certainly the ones that have a great awareness of strategy and team play, the ability to think on the spot and outside the box, and the athletic capability to execute.
After opening the season with the program's best-ever performance at the Division III ITA West Regional in October, the Beavers knew they were on track for one of their best seasons to date. Four Beavers competed in the tournament and had extremely close matches against nationally ranked opponents, including a win by Andre Liu '19 over the tournament's #9 seed from Pomona-Pitzer.

This was only a preview of what the Beavers had in store for the rest of the season. At the season opener against Linfield, Caltech picked up a decisive 8-1 win. The match was a good warm-up for the SCIAC opener against California Lutheran, resulting in a win. It was an historic match for the Beavers, as it was the first time they had opened the SCIAC season with a win since 1996-97. It was also their first win over a nationally ranked opponent in program history. The victory was fueled by Derik Nguyen '19 and Zixiao Li '19, who each swept both their singles and doubles matches, and led to the program's first national ranking, as they came in at No. 40. “The most memorable moment was winning our first match against a nationally ranked team,” says Sathwick Pathireddy '17 of the win. “This had always been a dream for many of the upperclassmen and to see it come true shows the amount of work we put in every day at practice.”

The Beavers went on to win 7 of their next 12 matches, including two victories during the team trip to Texas over spring break. “Our team bonded really well and played competitively against regionally and nationally ranked teams,” says Ruthwick Pathireddy '17 of the trip. The set of wins also included a record 3rd victory over a SCIAC team when the Beavers defeated West No. 16 Chapman University on Senior Day to propel them into a tie for second in the SCIAC. Though the Beavers did not find another win during the SCIAC regular season, they went into the SCIAC championship tournament with high expectations, and they performed. After dropping an epic match to Whittier College that stretched over 2 days due to a rain delay, the Beavers kept their heads in the game and pulled out a decisive victory over Occidental College. However, the Beavers were not able to hold on to their momentum, as they suffered a close loss to Chapman to end the season with an even 10-10 record. This left the Beavers with a sixth-place finish at SCIACs, the best since 2005. Additionally Ruthwick Pathireddy '17 was named Second-Team All-SCIAC and Coach Mandy Gamble was named SCIAC Coach of the Year.

With Caltech's first-ever nationally ranked recruiting class joining next year, the Beavers look to build on their already historic progress.

-To see it come true shows the amount of work we put in every day in practice.” - Sathwick Pathireddy '17
SPOTLIGHT: RUSHIKESH JOSHI

What was your team's biggest accomplishment this season?
Our team's biggest accomplishment this season was achieving a national ranking of #40 for DIII tennis programs. This marked the first time in history that the Caltech men's tennis team was nationally ranked, which was indeed the goal we had always set for the program. Achieving this was incredibly fulfilling for us as a team.

What was the most memorable moment of the season?
The most memorable moment of the season was beating conference rival Chapman on our Senior Day. During my four years on the team, we had close losses to Chapman, and to finally win on Senior Day with a 5-4 victory was an exciting moment for us all.

What is your favorite thing about playing tennis?
Tennis is a sport that incorporates both mind and body, testing the limits of both. I love the combination of technical skill, mind-body awareness, and strategy required to outmaneuver opponents.

LEAVE EVERYTHING ON THE COURT. Derik Nguyen '18 mentally prepares for the next rally.
1. CONGRATULATIONS. Rushikesh Joshi '16 congratulates his doubles partner Ruthwick Pathireddy '17 after winning a point. 2. BLOWFISH. Derik Nguyen '16 puffs his cheeks in anticipation as the ball flies towards his racquet. 3. HARD HITTER. Ruthwick Pathireddy '17 hits a powerful serve.
Refuse to

1. **MEET IN THE MIDDLE.** Kana Moriyama '19 and Julia Reisler ‘19 meet with Coach Mandy Gamble for some words of encouragement before the match begins. 2. **HIT HER WITH YOUR BEST SHOT.** Cecelia Andrews ‘19 uses her height to easily reach and return the ball. 3. **GET LOOSE.** Erin Wang ‘18 and Vinci Chen ‘18 get in some warm up hitting against their teammates. 4. **SERVE IT UP.** Julia Reisler ‘19 gets in position and stares down her opponent on the other side of the net before she releasing a blistering serve.
Though the main tennis season occurs in the spring, the team trains year-round, and they opened competition in the fall at the USTA/ITA Division III West Regional tournament in October. Though the Beavers team only has seven players, the opening tournament proved that they would be a team to beat in the upcoming season. Julia Reisler '19 reached the semifinal of her bracket, the furthest of any player in Caltech history.

Buoyed by this impressive performance, the Beavers were itching to jump back into competition in the spring. The schedule opened in early February with games against Linfield, Biola and conference opponent California Lutheran, all resulting in losses. However, the team earned their first win of the season against Occidental College, putting them at 1-1 in the conference. The match was highlighted by a win at #5 singles by Erin Wang '18, who came from behind, down one set to none, to clinch the team win for the Beavers.

Followign Wang’s inspiring performance, the Caltech team dropped their next match against Claremont-Mudd-Scripps, but hope was not lost. The Beavers came back to go on an incredible run, winning six of their next seven games, including resounding 9-0 victories over both LeTorneau and Whittier College.

The Beavers were not able to pick up another win in conference play, but came back strong in the SCIAC tournament. After falling to Chapman University in the regular season, the Caltech team pulled off the 7-2 win. "During season play, we barely lost to Chapman because we were missing two starters: me, because of a sprained ankle, and Cece. So it was nice to get that dominating win over Chapman during SCIACs and show them who was really better," recalls Sophia Chen '17. This led them to a sixth place finish in the conference, the highest since 2007.

The Team: Cecilia Andrews '19, Sophia Chen '17, Vinci Chen '18, Yeorgia Kalkoulis '19, Kana Moriyama '19, Julia Reisler '19, Erin Wang '18

Coaches: Mandy Gamble, Johnny Wang, Devashish Joshi

"It was nice to get that dominating win over Chapman during SCIACs and show them who was really better." - Sophia Chen '17

Women's Tennis | 087
What was your team’s biggest accomplishment this season?
I think it was pretty awesome that, even though we only had a team of 7, we overcame a rough start to the season to win several big matches and finish 6th in SCIAC.

What was the most memorable moment of the season?
When we beat Pacific. For every match we won Pacific answered with a win on their side, but we managed to pull ahead at the very end to win 5-4.

What inspires you as an athlete?
Improving. Every time I step onto the court, it’s all about becoming a better player, both mentally and physically. No matter how much you train or practice there will always be things you can do better, and that’s what motivates me to keep striving to reach the next level.

What is your favorite thing about playing tennis?
Being crafty.
1. MAKING A RACKET. Kana Moriyama '19 celebrates after winning a rally.

2. LEADING LADY. Coach Mandy Gamble gives Julia Reisler '19 some mid-match advice and encouragement as she leads 2 sets to 1.

3. IN THE ZONE. Yeorgia Kafkoulis '19 intimidates her opponent with an intense stare before serving the ball.
After experiencing a season of significant progress in 2015, the Caltech track and field team was eager to get back into competition. The season opened with the annual All-Comers Meet. Performances by Edward Garza ’16 in the 100m dash, Morgan Hill ’16 in the hammer throw and Lucy Chen ’17 in the triple jump led the way for the Beavers. Freshman Rohan Choudhury impressed in his collegiate debut as well, placing third in both the 1500m and 3000m.

The improvements just kept coming at the Pomona-Pitzer All-Comers Meet. Rohan Choudhury ’19 ran his way into the Caltech Top 10 all-time list, coming in at 7th with his performance in the 3000m. Elsewhere in track events, several Beavers dropped time across the board, from sprinting to distance events. At the Rossi Relays the following weekend, Michelle Marasigan ’19 joined fellow freshman Choudhury on the Top 10 all-time list in the 3000m, clocking an 11:41.53 to place 9th on the list.

After all of this, the Beavers were more than ready for conference competition to begin. At the first SCIAC Multi-Dual, the Beavers did not disappoint. Marasigan made her way onto another Top 10 list in the 800m, ranking ninth in program history. On the men’s side, Morgan Hill ’16 moved up on the Top 10 list in the hammer throw to 4th, and the men’s team prevailed over Chapman University for the second year in a row. Hill added a personal best in the discus throw, while Anup Kishore ’16 added point-scoring performances in the long jump, triple jump, discus and javelin.

At the second SCIAC Multi-Dual meet, Hill continued to climb the Top 10 list in the hammer throw, moving into third place while winning the event. Lucy Chen ’17 joined in the fun, moving up to fifth in program history in the triple jump, while Michelle Marasigan ’19 turned in the seventh best time in program history in the steeplechase, her first time competing in the event.

After a great deal of buildup, Hill shattered an 81-year-old program record in the hammer throw. “The most memorable moment was when we all came together to watch Morgan break the school men’s hammer record. Sometimes it can be hard to support our teammates when we have events at the same time, but we made sure to make it out to support Morgan at the culmination of all his hard work,” recalls Muskaan Goyal ’19.

After a stellar season, it was no surprise that Morgan Hill ’16 placed third in the hammer throw at the SCIAC Championships to earn All-SCIAC recognition. The meet also featured significant drops in time across the board, and look forward to building on the positive improvement next year. - Soumya Kannan

**The Team:** Alex Bourzutschky ’18, Ben Calvin ’19, Lucy Chen ’17, Rohan Choudhury ’19, Serena Delgadillo ’18, Rohan Doshi ’19, Edward Garza ’16, Muskaan Goyal ’19, Chris Haack ’18, Michael Hashe ’19, Morgan Hill ’16, Joey Hong ’19, Teddy Hu ’17, Anup Kishore ’16, Lilly Luo ’17, Michelle Marasigan ’19, Elliot Simon ’16, Gene Vaughan ’18, Kevin Yue ’16

**Coaches:** Ben Raphaelson, Caleb Weidert, Damon Hall, Brian Gunnarson
New Heights
What was the team's biggest accomplishment this season?
Our team was able to secure two conference dual meet wins this season, a marked improvement over having won only one dual meet over the past four years combined. I'm very proud of the team's progress this year, and I look forward to watching them to continue to improve in years to come!

What was the most memorable moment of the season?
At our first Oxy meet, it rained so hard that the teams had to seek refuge in the underground locker room for about an hour. Although several events were delayed/cancelled, it ended up being a fun team bonding experience.

What motivates you as an athlete?
I strive for continual self-improvement in all areas of my life, and athletics is no exception. I also like to run fast.

What is your favorite thing about running track?
My favorite thing about being a track and field athlete is the opportunity to meet and spend time with a group of individuals who strive for the same self-improvement that motivates me. I feel so privileged to have spent the last four years training and competing alongside my teammates here at Caltech.
HOW FAR? Lucy Chen '17 makes a long jump attempt.
THE STUDENTS STRIKE BACK.
Ruddock House underclassmen pose in front of their fort made by Teo Wilkening '16, victorious after a hard fought battle.

1. Wookie Cookies and Yoda Soda. After students were awakened in the morning to defend their forts, the celebrations continued with a CDS Star Wars dinner at Avery.

2. The Rebels. Blacker seniors Keegan Ryan '16, Andrew Romine '16, Sean Mendoza '16, Rebecca Tang '16, and Catherine Pavlov are all excited to set up for the fake ditch day, even though it is 7:00 AM.

3. The Battlefront. Students are escorted by a Storm Trooper onto Broad Lawn after the battle.

4. Harrison Food? A delicious must-have at the CDS Dinner were the Hans Solo Cups. Yum!

5. Join the Resistance. Blacker underclassmen show off their lightsabers (aka pool noodles).

6. Welcome to the Dark Side. The best part of the fake ditch day had to be meeting Darth Vader and Emperor Palpatine.
The morning started like any other. Pots and pans clanged in the hallway. Seniors aggressively banged on doors, and as underclassmen pulled themselves out of bed, the Star Wars theme song blared in the courtyard. After signing up for the stack and congregating in the courtyard, students were equipped with pool noodles and sent off on an unknown mission to Broad Lawn. Upon arrival, there were eight flags, one for each of the houses. Each house built a fort, or a “Death Star”. Some used cardboard boxes. Some supplemented the boxes with wooden frames and planted their flag on incredibly tall masts. Some spray-painted their boxes their house color. After a few minutes of hastily composing forts and disguising house flags, it was time for the games to begin. Houses relied on a range of strategies, from guerilla warfare to misdirecting opponents as to the locations of these flags. After an hour of tearing apart boxes and trading blows with pool noodles, a champion was found: Ruddock. On top of the morning’s fake stack, ASCIT, with the help of Tom Mannion, organized two showings of the new Star Wars movie, The Force Awakens in Beckman Auditorium, along with discussion panels with the crew behind special effects for the film, complete with the 501st legion patrolling campus. According to Kate Lewis ‘17, “Meeting the engineers and artists behind the Star Wars special effects was definitely the highlight of my year.” - Sakthi Vetrivel
ASCIT Formal—the closest event we have to prom, except it’s college. Your mom’s not forcing you to buy a corsage, and the pictures are far less awkward. Every year, the Associated Students of Caltech sponsor the spring formal for undergrads. After an amazing night at a yacht club in Marina Del Rey last year, we moved into the gorgeous Noor Ballroom in Pasadena this year. With black lights surrounding the dance floor and cast-iron chandeliers in the dining hall, the stage was set for a night to remember (or not, depending on how much you appreciate the wine bar).

Students took advantage of the buffet dinner, the cheese-cake bar, pyramids of milk tea, and an unlimited wine bar (for underage students, of course) and to make sure everyone got home safe, there were plenty of buses shuttling from campus to the venue. With an amazing lounge overlooking Old Pasadena it was the perfect location for students to catch up with friends they’d lost in piles of problem sets. And with a photo booth at the edge of the dance floor there was no shortage of group pictures to commemorate the event. Kelsi Riley ‘19 commented, “If you didn’t take a picture, did you really get dressed up?”

But ASCIT formal is rarely about the luxurious venue. Within minutes of arriving, students mobbed the dance floor. Bobbing along to artists like Sia and G-Eazy; the dance floor was a great place for students to forget about the stresses of school and let loose. Kalin Chang ‘17 added, “Overall, it was a fun time and everyone who wanted to was able to dress up and go out for a night which was really nice because sometimes Caltech students feel a nudge to get off campus.” - Sakthi Velivel

1. **POSE.** Amy Hu ’16 and Leon Ding ’17 glow in their super cute couple photo. 2. **FOOD FIRST, DANCE SECOND.** May Hui ’16, Cynthia Jiang ’16, and Rebecca Du ’16 aren’t hiding what they really came to ASCIT Formal for. 3. **CANDIDLY CUTE!** Amaanse Little ’16 and Torin Tosa are caught by the camera sharing an inside joke. 4. **ALL MY LADIES.** The best part of ASCIT Formal is being able to dress up. Bianca Lepe ’16, Preethi Periyakoril ’18, and Nikita Sirohi ’17 make up quite the patriotic trio with their red, white, and blue. 5. **CALTECH’S ANGELS?** Noah Nelson ’18 and Jessica Cheng are just a missing a third person for their classic Charlie’s Angels pose and food. 6. **EVERYTHING’S BETTER IN PAIRS.** Webster Guan ’16, Grace Lee ’17, Rachel Ng ’16, and Jihoon Lee ’16 pose for the camera before they make their way into Noor. 7. **AVERY IN THE HOUSE!** Several members of Avery House come together for a picture. 8. **THE GIRL IN RED.** Ayaana Sikora ’18 and Henry Steiner ’19 are all smiles at ASCIT Formal. 9. **WANT TO TAKE IT OUTSIDE?** Eugene Bulkin ’17, Xinhao Yan ’18, Grace Lee ’17 and Webster Guan ’16 literally take it outside to see the beautiful view of Pasadena from Noor’s balcony. 10. **PAGEGIRLS.** Anvita Mishra ’18 and Suzannah Osekowski ’17 take a picture before the night begins in Noor. 11. **ALL BLACK EVERYTHING.** Connor Lee ’17, Esther Du ’16, Jean-Alexandre Turban ’16, and Alex Pien ’16 come to ASCIT Formal in the color of the night—black. 12. **FRESH PRINCES OF PASADENA.** Akshay Shivastava ’19, Ruchi Pandya ’19, Sarah Jeong ’19, and Ethan Pronovost ’19 know how to keep the night young. 13. **LINE IT UP.** The best times to update your Facebook profile is after ASCIT Formal. What is better than a great photo with your best friends? 14. **CREW!** Obviously, Rushikesh Joshi ’16 is ready for the night with his friends.
This year, spring term began with a bang as several talented people performed in Caltech's annual Dance Show. The night started off with an explosive performance by Caltech Hip Hop Troupe and continued with other extraordinary displays by Caltech's Ballroom Dance Club, Dance Team, Aarya, Ballet group, Tech Naach, and Dhamaka. In addition, there were several individual and partner performances, such as a hip hop piece by Beatriz Atsavapranee '18 and Danh Ngo '19 and a breakdancing piece by Greg Donaldson. Each year, the Dance Show gets bigger and better! - Meghana Pagadala

1. TIKKA YOUR MASALA. Anshul Ramachandran '18 is beaming with excitement as he dances to a unique Bollywood remix of "Mamma Emotion Jaage" and "Worth It" in Caltech Dhamaka's performance. 2. A PICTURE OF GRACE. The Caltech Ballet group pose after their moving performance to "Dancing of the Dryads." 3. DIVA. Suchit Nandy '17 and Aris Taychamiekiatchai '19 are all smiles as they perform a fierce, girl-power piece. 4. STEP UP. Greg Donaldson impresses the audience with his freeze. 5. SCREW THE LIGHTBULB. Caltech Dhamaka starts their performance with the classic Punjabi song--"Mundaan Toh Bach Ke." 6. SARI, NOT SARI. Caltech Aarya, Caltech Bharata Natyam team, makes their first feature at the Dance Show with a performance to A.R. Rehman and Vanessa Mae's "Raga's Dance." 7. POINTED. Artemis Ailanou and Sofía Ríos dance to "Eliza's Aria," an ethereal song from the Tasmanian Orchestra.

8. BOOBY SHAKE. Tech Naach always gets a laugh out of the audience with their Indian dance routine filled with personality. 9. FUNKY TOWN. Gael Noirété showcases his popping and locking moves to James Brown "Get Up Off That Thing." 10. SALSA DIP. The Ballroom Club choreograph an epic routine that involved a battle between Salsa and West Coast Swing. 11. IN SYNC. Paul Nunez and Dr. Rebecca Saive perform to the Avicii hit "Waiting for Love." 12. TANGLED. Annette Thompson, an aerial silks dancer, keeps the audience in suspense as she twists and turns. 13. BAILADOS. Dr. Grigory Tikhomirov and Alysha de Souza take the audience on a colorful journey through South America with their salsa fusion piece. 14. THE APPLAUSE. The Caltech hip hop troupe opens the Dance Show with an urban hip hop performance. 15. THE FEELS. Beatriz Atsavapranee '18 and Danh Ngo '19 dance to Mike Posner's "Please Don't Go."
Short and sweet is the way to describe OASIS Show this year. Even though there were only 6 acts, each one of them was entertaining and amazing.

OASIS Show started off with Caltech's Indian Classical Dance team, Aarya, who wowed the audience with their performance of A.R. Rahman and Vanessa Mae's "Raaga's Dance Song." Although Aarya only became a club this year, their choreography was out of this world as they personified musical instruments and snakes. Aarya's performance was followed by a vocal piece by Amer Kothari and dance number by Chandru Dhandapani and Bhawna Motwani.

After intermission, the show resumed with a Carnatic performance including Anupama Lakshmanan and Aadith Moorthy '18 singing, Siddarth Prasad '19 playing the flute, Vasant Iyer '17 playing the violin and Arun Chandra '16 playing the tabla. After their melodious performance, Caltech's first Bollywood dance team, Tech Naach, performed. The all-girls dance team was full of sass, grace, and fun as they performed to "Cinema Chooopista Mama" and "Pinga." The funnel shirts and sunglasses were definitely a great touch to end Tech Naach's performance.

To end the show, Caltech Dhama-ka put on a play led by Anshul Ramachandran '18, Nikhil Gupta '19, Anise Rau '19, and Reeti Gulati '18. The play, which was inspired by "Hitch," was filled with humorous moments, lots of dancing, and fun costumes. Shreya Ramachandran '19 says about her first OASIS Show, "I liked how it was a very relaxed show. We had a lot of fun both backstage and on stage. There was no pressure to perform well; everyone participated just because they enjoyed what they were performing." - Meghana Pagadala
1. **DIRTY SOUTH.** Tech Naach breaks it down to the South Indian hit, "Cinema Choopista Mama."

2. **DANCE TO THE BEAT.** Caltech's newly-formed Indian classical dance group, Aarya, amazes the audience with their creative choreography and synchronization to A.R. Rahman and Vanessa Mae's "Raaga's Dance Song."

3. **THE BOYS ARE BACK.** The Dhamaka boys open the OASIS Play with "Dus Bahane" and show their brotherly bond with an intricate tutting section.

4. **GOTCHA!** Emcee Anand Poozhikunnel '17 is caught not paying attention to his fellow emcees, Prakriti Paul and Parul Kudtarkar.

5. **MAGIC MIKE.** Daniel Gomez '16 tries to ramp up the OASIS play inappropriateness level by ripping off his shirt. Children beware!

6. **SA RE GA MA!** Anupama Lakshmanan, Aadith Moorthy '18, and Vasant Iyer '17 perform to select Carnatic pieces.

7. **WATER BUCKET CHALLENGE?** Graduate students Chandru Dhandapani and Bhawna Motwani entertain the audience with their performance of "Masakkali."
DITCH DAY

Photos: All by Catalan Strategic Communications, except Meghan Ragland

Ditch Day | 103
FANTASY. Avery seniors organized a stack inspired by "Legend of Zelda." All Zelda lovers rejoiced.
Ditch Day can be thought of as "Christmas in May." It is a day that most underclassmen wait for and a day that all seniors prepare for. Although technically only seniors and administration know the exact date of Ditch Day, most underclassmen know when the day is getting close. This year, Ditch Day was on May 29th. Each house has different traditions for Ditch Day. However, in each house, underclassmen are awakened around 8:00 AM. Excited and anxious, underclassmen sign up for "stacks." Back in the day, underclassmen would break into seniors’ room during Ditch Day. To prevent underclassmen from destroying their rooms, seniors would “stack” objects in front of the doors and also leave puzzles. Although the initial term has lost its relevance, the day of fun, puzzles, an activities still are called “stacks.” Each “stack” has some sort of theme. These themes range from “Zelda” to “Air Bud” to “Guardians of the Galaxy” to “Finding Dory.” No matter the theme though, all stacks share a common theme of adventure, surprise, and fun.

Jenny He '17, who was on the xkcd comics Avery stack, remembers all the fun things she did: "The stack was a perfect combo of physical and mental challenges. We had our own escape room with lots of short math puzzles where people could work on different puzzles together and come up with combinations that opened locks. Ultimately there was a box where, if you put a magnet on it in just the right spot, it unlocked something inside."

On the “Finding Dory” stack for Avery, people got to go fishing in the gene pool. On the “Indiana Jones” stack for Ruddock, underclassmen got their own whips and practices using them. From Fleming, the “Amazing Race” stack ended with an overnight camping trip. Some stacks went indoor skydiving and others went go-karting, paintballing, and kayaking. And, the best part of Ditch Day is that you do not have to go to class, turn in homework, or do anything academic. It is a day to relax, have fun, and celebrate what a special place Caltech is. - Meghana Pagadala

"We had our own escape room with lots of short math puzzles..."
- Jenny He '17

1. FISH ARE FRIENDS. In preparation for the upcoming Pixar film, Avery seniors organized a “Finding Dory” stack. 2. MANNERS MAKEeth MAN. Lloyd seniors designed a “Kingsman” themed stack that included indoor skydiving and paintballing. 3. WOOF! You can never go wrong with a stack based on America's favorite dog. Ricketts underclassmen pose for a picture in their cool Air Bud tanks that they got for Ditch Day. 4. ATTACK! Anjali Premkumar '17 is ready for battle, as she practices her archery skills in the “Fire Emblem” Ruddock stack. 5. I AM GROOT! Even though they were awake all night, Xiaonmi Du '16, Annie Chen '16, Stephanie Wong '16, and Esther Du '16 are still all smiles as they see their “Guardians of the Galaxy” themed stack unfold.
MAKING THE


1. PRE-BFP PARTY. Fleming members, Mark Lorden '16, Ayaana Sikora '18, Jessica Nassimi, Sandia Akhtar '16, and Patric Eck '16, take a selfie during the Caltech musical festival "Techstock." 2. 1985 to 2016. After all the Caltech bands competed and the winners were announced, the headliner-Bowling for Soup-performed. They did not disappoint, performing their classics, such as "1985" and "Girl all the Bad Guys Want." 3. #SELFIE. Vasant Iyer '17, Federico Presutti '17, Lasya Marla '16, Krishnan Chander, and Anjali Premkumar '17 are all smiles during Techstock.

ROCK ON. The band The Seventh Season composed of Konstantin Batygin, Chris Spalding, Erik Petigura and Peter Buhler are caught in an electric moment as they perform.
After the success of the music festival last year, Caltech students Garrett Levine '18 and Vincianne Chen '18 brought together undergraduates, graduate students, and JPL employees for a second year. Following months of planning and thanks for funding from MHF and ASCIT, it was finally time. By 9 AM, a stage was installed in front of the Winnett Center, kegs had arrived for the beer garden, and the lawn was filling up with students laying out blankets.

The morning kicked off with the Battle of the Bands, where each band performed sets in the hopes of advancing to the semifinals and finals. Thirteen bands competed: Mr. Vampire, Ash Street Ramblers, Post-Documentarians, State Park, Serotonat, Rice and Beans, The SI's, Charlie and the Daymen, Searching for Beau, The Little Big Band Theory, Donald Trumpet and the Political Experiment, Many Distant Cities, Puff and Snap, The Degenerates, Critical Hit, and The Seventh Season.

Following a tight finals showdown, Many Distant Cities snatched the victory to claim a cash prize, and more importantly, bragging rights. After a victory lap, it was time for Techstock's headliner band to bring it home. Historically, it's always been a famous rock band; after a performance by Downtown Fiction (and a surprise visit at BFP) last year, the festival closed out this year with Bowling for Soup. Along with the wave of nostalgia, Bowling for Soup invited a few students onstage to perform alongside the band. Anjali Premkumar '17 guest starred on the Phineas and Ferb theme song, singing it not once but twice. Another fan favorite was Rushikesh Joshi '16, who commanded a microphone, danced on stage, and reminded us of all those childhood dreams of being in a rock band.

Following the whirlwind of a day, Levine commented, "Honestly, it wouldn't have been possible without the amazing team that worked with me, and seeing everyone have such an amazing time made all of the stress worth it." - Garrett Levine '17
The Pipettes ended their performance sentimentally before walking off, featuring the raps stylings of Amy Zhai ’19. In addition, Acapalooza is also the last chance for all male a cappella group, Fluid Dynamics. FD began with a powerful performance of “Shake it Out” by graduating senior Catherine Pavlov ’16. FD then followed this with a beautiful “Don’t Know Why” featuring the pure toned Audrey Wang ’18. FD ended their performance with an energetic “Black Horse and The Cherry Tree” featuring the lovely and exuberant Lucy Chen ’17.

The concert kicked off with the Pipettes, Caltech’s first and only all female acapella group. The Pipette’s walked out sporting all kinds of wacky clothing, from a shiny metallic beanie to a full on zebra print onesie. The group’s first two songs featured their graduating seniors and were in dramatic contrast to their zany outfits, beginning with a stunning rendition of “Titanium” by senior Rebecca (Becky) Tang ’16 followed by a sultry performance of “Rivers and Roads” sung by senior Jessica Lam ’16. The Pipettes ended their performance by nodding to their crazy fashion choices with a soulful arrangement of Post Modern-Jukebox’s “Thrift Shop”. This song featured the rap stylings of Amy Zhai ’19 as an amazing Macklemore. Finally, in a sentimental moment before walking off the stage, the Pipettes presented seniors Jessica and Becky two flower bouquets and many hugs.

Next, emcees Daniel Gomez ’16 and Richard Zhu ’18 introduced the Keytones, Caltech’s first and only all male acapella group. Their bow tie adorned performance was a good deal manlier but just as zany as the Pipettes’, beginning with a beautiful (or should I say handsome) interpretation of the traditional American folk song “Oh Shenadoah.” This song featured a host of soloists but was punctuated by gorgeous high notes by tenor Wesley Glenn and creamy low notes by bass Henry Swanson ’17. The Keytone’s then featured their two graduating seniors, beginning with a loveable interpretation of “Can’t Take My Eyes Off of You” by Patrick Nikong ’16. The Keytones followed this with a moving “Back at One” by Jalan Williams ’16. After a brief intermission the concert resumed with a mixed gender group, Fluid Dynamics. FD began with a powerful performance of “Shake it Out” by graduating senior Catherine Pavlov ’16. FD then followed this with a beautiful “Don’t Know Why” featuring the pure toned Audrey Wang ’18. FD ended their performance with an energetic “Black Horse and The Cherry Tree” featuring the lovely and exuberant Lucy Chen ’17.

Finally, the concert closed with Caltech’s oldest a cappella group and (appropriately) the only group without a science pun in their name, Out of Context. The group began with an arrangement of “Settle Down” featuring vocal powerhouse Diandra Almesco ’19 followed by an arrangement of the Pentatonix mashup “La La Latch” sung by Vasant Iyer ’17 and Amy Zhai ’19 (from the Pipettes too!). Out of Context director Rachel Morton then introduced the group and gave a shout out to the soloist for their next song, graduating senior Lasya Marla ’16 in her debut arrangement of “Forget You”. The group then took things down a notch, to the dark sounding song “Still Here” featuring the angelic voice of Rachael Morton ’18. Finally Anjali Premkumar ’17, Out of Context’s other director nodded to the groups other graduating senior, the ever fun Daniel Gomez. During Anjali’s announcement the rest of the group gathered snap backs to wear in Gomez’s energetic and crowd pleasing performance of “Magic”. Vasant Iyer ’17 reminiscences, “I really love how, when we messed up in the middle of ‘Magic’, we kept the energy and the fun going, and we ended up making a big, strong finale. It was a moment that exemplified everything I love about OoC and the a cappella community - how we lift each other up and make something more beautiful than anything we can do alone.”

-Vasant Iyer ’17

“I really love how, when we messed up in the middle of ‘Magic’, we kept the energy and the fun going, and we ended up making a big, strong finale. It was a moment that exemplified everything I love about OoC and the a cappella community - how we lift each other up and make something more beautiful than anything we can do alone.”

-Lasya Marla

FINAL NOTE
Photos: All by Sheila Lo. Layout: Meghana Pagadala

Acapalooza is the last acapella concert of the year, which also makes it one of the most exciting. Since it is an all-Caltech concert, each group isn’t afraid to be silly and show off their unique and funky style (this year snorkelers and bow ties abounded). In addition Acapalooza is also the last chance graduating seniors have to sing with their acapella families, making it one of the most fun and sentimental concerts of the year.

The concert kicked off with the Pipettes, Caltech’s first and only all female acapella group. The Pipette’s walked out sporting all kinds of wacky clothing, from a shiny metallic beanie to a full on zebra print onesie. The group’s first two songs featured their graduating seniors and were in dramatic contrast to their zany outfits, beginning with a stunning rendition of “Titanium” by senior Rebecca (Becky) Tang ’16 followed by a sultry performance of “Rivers and Roads” sung by senior Jessica Lam ’16. The Pipettes ended their performance by nodding to their crazy fashion choices with a soulful arrangement of Post Modern-Jukebox’s “Thrift Shop”. This song featured the rap stylings of Amy Zhai ’19 as an amazing Macklemore. Finally, in a sentimental moment before walking off

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-Vasant Iyer ’17

"I really love how, when we messed up in the middle of ‘Magic’, we kept the energy and the fun going, and we ended up making a big, strong finale. It was a moment that exemplified everything I love about OoC and the a cappella community - how we lift each other up and make something more beautiful than anything we can do alone."

-Lasya Marla
1. **LET THE CHORDS FLOW.** Jessica Lam '16 performs "Rivers and Roads" by The Head and the Heart. The audience definitely felt her heart as she delivered a powerful performance for her last concert.

2. **SOUND OF THE SOUL.** Out of Context harmonizes with Vasant Iyer '17 as he sings "La La Latch" by Pentatonix.

3. **STUNNER.** Although only a freshman, Audrey Wang '19 is mighty and moves the audience with her solo.

4. **TAKE A BOW.** Preethi Periyakoil '18, who helped start the Caltech Pipettes, introduces the group's arrangements.

5. **GOLDEN RECORD.** Daniel Gomez '16 closes his college acapella career with his rendition of "Magic," after reminiscing about how Out of Context was like his family.
THE LAST SUPPER

Last year President Rosenbaum and his wife started a new tradition of inviting all the graduating seniors to their home so seniors could have a chance to mingle with administrators and alumni while also indulging in amazing food. This year the tradition continued. On each of the four different senior dinner days, seniors had a great time relaxing and celebrating with their fellow classmates. These dinners were definitely a great way to send off the seniors.

- Meghana Papadala
All things in life must eventually come to an end. On June 10, Caltech’s Class of 2016 had to say goodbye to college. Caltech is a difficult academic experience, and many graduates celebrate the end of it, but no one can dispute that Caltech is a special and unique place and that the friendly environment would be missed. As the faculty and graduates lined up and walked down Beckman lawn, there was excitement in the air. Families, staff members, and underclassmen gathered to cheer on their friends and loved ones. After everyone was seated, the ceremony began. This year’s commencement speaker was Dr. Atul Gawande, Professor of Surgery at Harvard Medical School and writer at *The New Yorker*. Dr. Gawande congratulated the graduating seniors, but also forced them to think about the challenges they would face in the outside world: “Even more than what you think, how you think matters. The stakes for understanding this could not be higher than they are today, because we are not just battling for what it means to be scientists. We are battling for what it means to be citizens.” Afterwards, the Class of 2016 lined up to get their diplomas and shake hands with President Thomas Rosenbaum. As each graduate’s name was called, underclassmen from the respective houses filled the area with cheers, celebrating the achievements of the Class of 2016. - Meghana Patadala
"Even more than what you think, how you think matters. The stakes for understanding this could not be higher than they are today, because we are not just battling for what it means to be scientists. We are battling for what it means to be citizens." - Dr. Atul Gawande, 2016 Commencement speaker
Jessica Lam ’16 cannot contain her happiness as she sits down with all the other members of the Class of 2016 and waits for the commencement speech to start.

As I reflect back on my time at Tech, an overwhelming sense of gratitude arises. I feel tremendous appreciation for the opportunities that have allowed me to grow as a scientist and as an individual. From my first SURF, to participating in Caltech Y volunteering events, to traveling to the Galapagos with my evolution class, I have expanded my scientific knowledge and broadened my worldview. Moreover, I am thankful for the opportunity to use my creativity to problem solve about issues which matter to me. I feel like I have truly been challenged and encouraged to stand up for what I believe in. - Bianca Lepe ’16

“As a prefrosh, I very much imagined that my time at Caltech would be mostly about classes and research. In retrospect, I think I learned as much from my friends and social experiences as I did from my classes and research work. Yes, we have challenging classes and fantastic research opportunities, but we also have a unique social environment that helped me become a happier and more satisfied person.” - Nicholas Scheifer ’16
1. **BLACK AND YELLOW.** Grace Park '16 and Haley Pawlow '16 show off their Lloyd pride as they smile for the Class of 2016 photo.

2. **AND THE STUDENTS COME MARCHING IN.** All of the students line up alphabetically and walk through Beckman lawn as friends and family take millions of photos.

3. **COMMENCED.** Anne Christian '16, Kristin Eliason '16 and Anne Davis '16 take a picture with their TA, David Case (Ph.D, Geochemistry) as all four of them celebrate their new diplomas.

4. **STRAIGHT OUTTA SCHOOL.** Aditya Bhagavathi '16 and Rushikesh Joshi '16 are bubbling with excitement before they have to walk onto Beckman Lawn for commencement.

5. **THE END AND THE BEGINNING.** Class of 2016 graduates are sad to leave Caltech, but excited for the future.
AVERY PAPER MARIO
BOBA? BOBA!
420 SNAPS
STORY TIME
DANCE CENTRAL
IT'S A BIRB
IT'S A REALLY BIG BIRB
FOUR TONY BLAZE IT
WHITE DAY
ILLUMINATI
HOTLINE BLING
VALENTINE'S DAY
DANK MEMES
CANADIA
TRIPODS
PUREST CINNAMON ROLL
ULTIMATE FRISBEE
GARBAGE
NEKO ATSUME
AYY LMEOW
SWAGHETTI AND MEMEBALLS
KISS MY FOOT
SQUISHABLES
STUDIO GHIBLI
N+1 DISC SALT
VOLLEYBALL MOM
HOUSE
Avery House

Excomm
Kevin Ye, Catherine Day, Jordan Borilla, Grace Chen, Richard Zhu

Soc Team
Richard Zhu, Julia Yang, Aris Tay, Cindy Huang, Amanda Lin, Charlie Tong, Catherine Day

UCCs
Nick Tran, Charlie Tong, Jerry Song, Noah Nelson, Raul Dostick, Sean Mckenna, Lauren Lu, Sunanga Maratha, Sandra Ng, Ying Li, Anshuman Verma, Andrew Brodsky, Jie Li, Ngoc, Jenny He, Olivia Hendra, Jenny Han, Eieri Chuan, Amanda Lin

Ath Team
James Deacon, Don Chiu, Kevin Ya, Chris Zhen, Grant Carlson, Kathleen Yang
SMORE\textsc{CLASS}

\textbf{front row, from left} \hspace{0.1cm} Chen Chang \hspace{0.1cm} Nick Meyer \hspace{0.1cm} Brian Lee \hspace{0.1cm} Kevin Shu \hspace{0.1cm} David Wu \hspace{0.1cm} Mayra Melendez \hspace{0.1cm} pineapple \hspace{0.1cm} Stephanie Kwan \hspace{0.1cm} Lucille Wells \hspace{0.1cm} Annie Chang \hspace{0.1cm} Paige Gannon \hspace{0.1cm} Caroline Howard \hspace{0.1cm} Alison Dugas \hspace{0.1cm} Anusha Nathan

\textbf{shopping cart} \hspace{0.1cm} Carly Robison

\textbf{back row, from left} \hspace{0.1cm} Alex Meiburg \hspace{0.1cm} artichoke \hspace{0.1cm} Robert "Reng" Eng \hspace{0.1cm} Tyler Middleton \hspace{0.1cm} Thom Chaffee \hspace{0.1cm} William Lake \hspace{0.1cm} Jake Ketchum \hspace{0.1cm} Erich Herzig \hspace{0.1cm} Mark "the Interhouse" Gillespie

\textbf{not pictured} \hspace{0.1cm} Avinash Agrawal \hspace{0.1cm} Nathan Barton \hspace{0.1cm} Anne Dorsey \hspace{0.1cm} Francesco Macagno \hspace{0.1cm} Tyler "T-Pain" Perez \hspace{0.1cm} Ruoqi Shen
SENIOR CLASS

Top row, from left: Torkom Pailevanian, John Naruk, Tim Bennett, Keegan Ryan, Melissa Cronin, Sean Mendoza, Edward Fouad, Calli Meyer, Valentin Skoutnev, Gabe Foster, Evan Davis.

Second row: Sarah Asano, Becky Tang, Tots Roy, Catherine Pavlov, Emory Brown, Sheila Handler, Andrew Romine, Jalen Green, Aaron Feldman, Elly Shao.

Front: Matthew Smalley.

Not pictured: Iulia Gheorghita, Nima Badizadegan, Kirby Sikes, Nikhita Poole, Sam Savitz, Sarah Pearce.
FRESHMEN

First Row: Lazarina Butkovich, Jessica Wang, Lydia Kivrak, Nadine Bradbury, Richard Chen, Helen Xue, Amy Xiong, Daniel Magley, Alison Ren, Gefei Dang  
Second Row: Tiffany Jager, Sophie Piao, William Xu, Daniel Xu, Charles Lien, Michael Seaman, Alejandro Yankelevich  
Third Row: Filippos Bountalis, Agne Skripkaite, Kyle Seipp, Kevin Yuh  
Not Pictured: Tyler Port, David Gunby, Ian Garcia, Max Wang, Ishan Mazumdar, Benjamin Zhao, Zachary Chase

SOPHOMORES

First Row: Charles Nelson, RJ Antonello, Gillian Kopp, Oriel Humes, Agne Skripkaite, Jessica Li  
Second Row: Tristan Murphy, Gabrielle Tender, Sam Bardwell-Evans, Aaron Anderson, Rita Sonka  
Third Row: Matthew Weidner, William Ballinger, Haojie Zhuang  
Not Pictured: Victor Baules, Arjun Bose, Alex Bourzutschky, Jared Filseth, Richard Lee, Ruomeng Wang, Audrey Wang, Max Zhan

*People are labelled left to right.
**Juniors**

*First Row:* Slava Butvokich, Alex Geffner-Mühlsten, Adrian Harry, Kyle Seipp, Lyra Cao  
*Second Row:* Diana Ardelean, Michelle Wang, Colin Murphy, Agne Skripkaite, Jacob Stark  
*Third Row:* Eve Yuan, Christopher Dosen, Johnathan Stauter, Connie Robinson, Sierra Lincoln  

*Not Pictured:* Yury Agyamov, Alec Brenner, Lyra Cao, Henry Elbaum, John Galden, Daniel Gu, Victor Han, Netgie Laguerre, Peter Lommen

**Seniors**

*First Row:* Chengyi Lee, William Hoza, Kayane Dingilian, John Clark  
*Second Row:* Kevin Yuh, Michael Wheeler, Nicholas Schiefer, Sylvia Hurlimann  
*Third Row:* Jimmy Cuy, Albert Gural, Agne Skripkaite, Panavia Shou  

*Not Pictured:* Vy-Luan Huynh, Alexander Mun, Hong Joon Park, William Reichard, Samuel Savitz, Hannah Walsh, David Warrick, Andrew Zhao  

*People are labelled left to right.*
LLOYD HOUSE
I live and die for those I love

Frosh
Sophomores
Juniors
Seniors
Brob
Ski Trip

Camping at JTree

Ultimate Egg
Joe Roddy Rep at Large
Grace Park Rep at Large
Peter Kundzicz AthMan
Darius Simmons Social Director
Kate Lewis Social Director

Evan Sloan Superintendent
Nick Haliday Secretary
Bobby Sanchez President
Ankit Kumar Treasurer

EXCOMM & UCCS

Amal Tariq Fingal's Cave
Sophia Chen Virgin Islands (Tail)
Sarthak Sahu Kaos, Rep at Large
Amanda Gao Purple

Joe Donermeyer Valhalla
Rachael Morton Inferno
Dominic Yurk Tropics (Head)
Ishwar Subramanian Off Campus
Malavika Venkatesan Off Campus
Excomm
President - Nishant Desai
Vice President - Sarah Cai
Treasurer - Patrick Hsu
Secretary - David LeBaron
Man of Ath - Jack Lloyd

Soc Team
Nishad Maskara
Tiffany Zhang
Maria Newport
Sarah Cai
Suzanne Oliver
Nicholas Redd
Madelyn Wang

Ath Team
Gemma Takahashi
Nicholas Redd
Jack Lloyd
Aaron Sartin
Beach Trip
RUDDOCK HOUSE
President: Patrick Nikong
Vice-President: Anne Davis
Treasurer: Henry Swanson
Secretary: Nikita Sirohi
Librarian: Sandra Liu
Smore Rep: Tim Liu
Off-Campus Rep: Elliot Simon

Ath Team
Ath Man: David Inglis
Jimmy Hamilton
Chris McCarren

Soc Team
Soc Man: Bolton Bailey
Nicholas Hutchins
Surya Sundarajan
Anushka Rau
Ben Bartlett


Research Faculty: Egill Hauksson, Paul S. Nerenberg, D. A. Papanastassiou

GEOLOGY & PLANETARY SCIENCE
CHEMISTRY & CHEMICAL ENGINEERING


Faculty: Yaser S. Abu-Mostafa, Alan H. Barr, James L. Beck, Oscar P. Bruno, Joel W. Burdick, Venkat Chandrasekaran, Mathieu Desbrun, John Doyle, Yizhao Thomas Hou, Katrina Ligett, Steven Low, Alain J. Martin, Dan Meiron, Richard M. Murray, Houman Owhadi, Niles A. Pierce, Peter Schroeder, Leonard J. Shulman, Joel A. Tropp, Christopher Umans, Thomas Vidick, Adam Wierman, Erik Winfree, Yison Yue

Research Faculty: Gerard Holzmann, Michael Hucka, Douglas MacMartin, Paul Rothemund, James Scovel, Damien Woods

COMPUTING & MATHEMATICAL SCIENCES
Director: Jennifer Howes  Medical Director: Stuart C. Miller  Attending Physician: Richard Zeiss  Nurse Practitioners: Divina Bautista, Alice Sogonomian, Helen Qian  Medical Assistant: Edie Montes  Health Advocate Program Coordinator: Mark Stapf  Administrative Assistant: Maria F. Lopez  Senior Administrative Secretary: Jeannie Holloway  Administrative Coordinator: Kim Quintana

Director: Jennifer Howes  Assistant Director: Lee H. Coleman  Staff Psychologists: Maggie Ateia, Charisma Bartlett, Maria Oh  Administrative Assistant: Maria F. Lopez  Administrative Coordinator: Kim Quintana  Consulting Psychiatrist: Mariel Tourani  Postdoctoral Resident: Tatiana Vasilevskaia

COUNSELING SERVICES
FELLOWSHIPS & STUDY ABROAD

Director: Lauren Stolper  Assistant Director: Katherine Montgomery  Office Manager: Diana Garcia

Director: Lauren Stolper  Assistant Director: Mandy Casani  Career Counselor and Pre-Health Advisor: James Berk  Recruiting Coordinator: Anastasia Terrell

CAREER DEVELOPMENT CENTER
I AM...

FABULOUS -Sophia Liu

SEAN -JAMES DEACON

SILLY -Steven Brotz

INDEPENDENT -Grace Orser

A DREAMER -Julia Deacon

Human -Noah Huffman

A FOODIE -Anna Resnick

FUNNY -Julius Oppenheim

TALL -Kai Klocke

SLEEPY -Starry Xu

ENTHUSIASTIC -Kavya Sreedar

TENACIOUS -Leo Balestri

AFANGIRL -Alison Ren

Idiosyncratic -Daniel Magley

Context-free -William Xu

RIDICULOUS -Sakthi Vetivel

SHINY -Sophus Shackford

DRAMATIC -Lydia Mivra

Class of 2019 | 175
AMAZING
-Malavika Venkatesan

SASSY
-Kevin He

RESERVED
-Jason Huang

SILLY
-Vinci Chen

DEDICATED
-Anushka Rau

BUBBLY
-Tara Shankar

COLORFUL
-Orion Humas

ADVENTUROUS
-Aishwarya Nene

ORGANIZED
-Fabio Arri

Inquisitive
-Richard Lee

I AM...
I AM...

GENUINE
-Neil Kumar

PRICKLY
-Peter Lomman

HAKUNA MATATA
-Ritwik Anand

NEUTRAL
-Keegan Mendonca

COLORFUL
-Lindsey Whitesides

DEDICATED
-Pallavi Agarwalla

CURIOS
-Miica Kolundziga

just-getting-by
-Yi Yuan

Adventurous
-Sunzana Mahata

TIRED
-Talia Minar

INDOMITABLE
-Moriah Bischann

OUTSTANDING
-Slava Butkovich

LOVING
-Sierra Lincoln

A Dancer
-Diana Ardele

ENERGETIC
-Sophia Chen

BUSY
-Jordan Bonilla

PASSIONATE
-Anjali Premkumar

David Christopher Inglis
Erin Marisa Isaza
Vasant S Iyer
Hamson Bublick Jacobs
Shubhankar Jain
Tiantian Jiao
Matthew Y Jin
Jonathan Youngha Joo
LEGENDARY
Class of 2016

People
The mission of the Caltech chapter of AIChE is to support undergraduates interested in the field of chemical engineering in both their academic and professional endeavors. Caltech AIChE aims to support students throughout their time at Caltech through activities that connect them with fellow students, ChE faculty members, industry representatives, other student chapters of AIChE, and the national chapter of AIChE.

Excomm: (left to right) Parul Pubbi (Vice President), Andrew Lucas (Treasurer), Bogdan Dimitriu (Upperclassmen Representative), Alp Sunol (President), Naveen Arun (Secretary), Muskan Goyal (Frosh Rep) Not pictured: Alison Lui (Upperclassmen Representative)

The Chemistry Club travels to different schools in the local neighborhoods, performing chemistry-related demos. They love colored fire, liquid nitrogen, and inspiring kids to explore science!

Members: (left to right) Kurtis Carsch, Saaket Agarwal, Ellen Yu, Gerri Roberts, Netgie Laguerre, Ruomeng, and Anand Poozhikunnel

CHEMISTRY CLUB

CALTECH DHAMAKA

Caltech Dhamaka is Caltech's co-ed Bollywood dance team that mixes different dance styles, such as Bollywood, Indian classical, ballroom, hip hop and interpretive.

THE PIPIETTES

The Pipettes are Caltech's newest, only, and finest all-female a cappella group!

**Members:** (left to right) **Top row:** Anne Zhou, Gloria Ha (Secretary), Becky Tang, Preethi Periyakoil (President), Rachel Ng, Jessica Lam, Sumana Mahata. **Middle row:** Surya Sundararajan, Stephanie Huard (Media Manager), Amanda Lin (Music Director), Alison Ren. **Bottom row:** Jenny He, Amy Zhai, Caroline Howard (Music Director), Audrey Wang

Out of Context is the oldest a cappella group on campus, born in the same year as Taylor Swift. This year, we've performed songs like "Let's Get it Started," "Justin Bieber Tribute," "Stacy's Dad," "Settle Down," and "Magic."

**Members:** (left to right) Diandra Almasco, Amy Zhai, Ayaana Sikora, Lasta Marla, Vasant Iyer, Chris Lamartina, Fabio Arai, Eric Liu, Tara Shankar, Rachael Morton, Anjali Premkumar, Daniel Gomez, Kevin Chang. **Not Pictured:** Marc Mulheisen

THE CALIFORNIA TECH

Caltech's undergraduate newspaper.

**Editors:** (left to right) Katherine Guo, Jon Cotler, Nehal Shah, Neera Shah, Ching-Yun (Chloe) Hsu

OUT OF CONTEXT

DDR club provides equipment for weekly free play and maintains the DDR arcade machine in the SAC.

**DDR CLUB**

Aftermath is Caltech's Ultimate Frisbee Club. We compete in the USAU DIII College Division and regularly travel around and out of state for competitions. We are competitive and social at the same time, we welcome players of all skill levels to join us for the season ahead!

**Members:** Radka Dančíková, Daryl Yee, Zachary Sternberger, Junno Tseng, Michael Lichterman, Drew Schäfer, Daniel Chui, Dominic York, Sarang Mittal, Kevin Yang, Brigitte Rooney, Bryce Edwards, Jon Cotler, Michael Miller, Paul Kempler, Erika Ye, Craig Cahillane, Aaron Young, Peishi Cheng, Sundar Pandian, Sophus Shackford, Leonardo Batesri, James Deacon, Cormac O'Neill, Joseph Lozier, Luis Ares

AARYA

Caltech's Bharatanatyam dance group.

**Members:** (left to right) Uma Dingankar, Anise Rau, Meghana Pagadala, Anjali Premkumar, Amisha Nathan Shreya Ramachandran
Harinee Maiyuron
Editor
HPS '16

Soumya Kannan
Editor-in-Chief
BioE '16

Nicholas Hutchins
Contributing Writer
BioE '18

Meghana Pagadala
Editor-in-Chief
Chemistry '16
Aris Taychameekiatchai
Staff
Biology '19

Caltech Big T

Michael Wong
Photo & Layout Editor
Planetary Science PhD

Matt Kempster
Contributing Writer
CS '18
CONGRATULATIONS 2016 GRADS!!!

Performing and Visual Arts would like to congratulate all our students, especially those individuals who take the time to pursue their passion for the arts at Caltech.
Congratulations to the Class of 2016!

Monique Alkiewicz
Kristin Anderson
Lisa Beckmann
Arun Chandra
Ann Chen
Courtney Chen
Aileen Cheng
Daniel Chou
Anne Christian
Rebecca Du
Xiaomi Du

Galen Gao
James Ha
Andrew Hou
Alexander Hsu
May Hui
Soumya Kannan
Snigdha Kumar
Jessica Lam
Jihoon Lee
Bianca Lepe
Chaitanya Malladi

Ariel O'Neil
Hong Joon Park
Neera Shah
Nehaly Shah
Matthew Smalley
Gregory Stevens
Stella Wang
Tina Xu
Kevin Yei
Kevin Yu
Tiffany Zhou

Caltech
Division of Biology
and Biological Engineering

Congratulations to the Class of 2016 from the
Geological and Planetary Sciences Department!
Congratulations
Class of 2016!

Science and technology revolutionize our lives, but memory, tradition, and myth frame our response.

– Arthur Schlesinger
CONGRATULATIONS TO THE CLASS OF 2016!

FROM THE OFFICES OF THE PROVOST AND VICE PROVOSTS

Congratulations

to the

Class of 2016!

The Office of the President wishes you success and happiness in all of your future endeavors.
Congratulations on your graduation and best of luck on all of life's future adventures!

The Caltech Housing Office

Congratulations Class of 2016!

SURF
CALTECH

www.sfp.caltech.edu
C O N G R A T U L A T I O N S  
T O  T H E  
C L A S S  O F  2 0 1 6 !

THANK YOU TO THE CLASS OF 2016 FOR ALL OF YOUR HARD WORK, DEDICATION AND ENERGY YOU HAVE CONTINUOUSLY GIVEN TO THE Y DURING YOUR TIME AT CALTECH! YOU HAVE MADE A HUGE IMPACT ON YOUR CALTECH COMMUNITY AND THE COMMUNITY AT LARGE! ON BEHALF OF THE CALTECH Y BOARD AND YOUR FELLOW STUDENTS WE ARE SO PROUD OF YOUR ACCOMPLISHMENTS AND THE JOURNEYS YOU ARE ABOUT TO EMBARK!
Year in Review
Around the World

SEPTEMBER 20, 2015
The Class of 2019 arrives

NOVEMBER 13, 2015
A series of coordinated terrorist attacks in Paris are the deadliest attack on French soil since World War II

SEPTEMBER 19, 2015
SpaceX launches and lands the Falcon 9

DECEMBER 22, 2015
the first reusable rocket to successfully return from orbital space

JANUARY 11, 2016
LIGO officially announces the detection of gravitational waves

The World Health Organization announces the first

28 JANUARY 2016
Zika outbreak

JUNE 10, 2016
The Class of 2016 graduates
Review @ Caltech

BIOLOGY & BIOENGINEERING
Caltech's Biology and Bioengineering department with its noble goal of understanding living systems has exploded in popularity recently. To recognize its esteemed faculty enjoying many prestigious rewards, this year Frances Arnold, professor of ChemE, BioE, and Biochemistry, was awarded the Millennium Technology Prize for her "directed evolution" protein synthesis method. With her stood Yuki Oka, assistant professor of biology, who was named one of the six 2016 recipients of the McKnight Scholars award for his research on the mechanisms controlling thirst. Caltech's BBE department excels not only in research, but also in teaching quality; this year, Ellen Rothenberg, Albert Billings Ruddock Professor of Biology, received the 2016 Richard P. Feynman Prize for Excellence in Teaching.

CHEMISTRY & CHEMICAL ENGINEERING
The Chemistry and Chemical Engineering Division ignites passion in its researchers, who seek to establish and manipulate the chemical reactions that govern our world. From senior undergraduates Kurtis Carsch, who was awarded a Hertz Fellowship, and Ayush Gupta, who received the Library Friends' Senior Thesis Prize, to Mikhail Shapiro, the assistant professor of chemical engineering who was selected as a 2016 Pew Scholar to support his research program to use ultrasound to locate microbes in the body, Caltech's researchers and faculty demonstrate our university's unrivaled mastery of chemistry.

GEOLOGY & PLANETARY SCIENCE
Though the eternity and extreme size of the cosmos appear daunting, Caltech's Geology and Planetary Sciences department manages to push the envelope, developing new and innovative methods for understanding our Universe. Exciting news came from the GPS department this year as Caltech researchers Konstantin Batygin and Mike Brown found convincing evidence of a ninth planet that traces a highly eccentric orbit around the sun at a distance twenty times that of Neptune. In other news, John Eller, professor of geology and geochemistry and director of the Caltech Microanalysis Center, was elected to the National Academy of Sciences for his studies of the origin and evolution of meteorites.

PHYSICS, MATHEMATICS & ASTRONOMY
Caltech's Division of Physics, Mathematics, and Astronomy goes above and beyond; its near-constant success-stories and fun quirks delight all members of the Caltech community. This year, Hiroshi Ooguri, professor of Theoretical Physics and Mathematics, served as a science advisor for the Man from 9 Dimensions, a 3D movie produced by Japan's National Museum of Emerging Science and Innovation. In other news, professor of mathematics Nets Katz received the 2015 Clay Research Award from the Clay Mathematics Institute for his solution of the Erdos distance problem among other contributions to combinatorial incidence geometry. The awards don't stop there. Fiona Harrison, professor of physics and Chair of the Division of Physics, Mathematics and Astronomy was selected to receive the 2016 Massey Award for her work on NASA's NuSTAR (Nuclear Spectroscopic Telescope Array) mission, while Arthur McDonald, PhD '70, won the 2015 Nobel Prize in Physics for the discovery that neutrinos can "change their identities" as they travel through space.

ENGINEERING & APPLIED SCIENCES
Interdisciplinary principles are taken to their extremes at Caltech's Division of Engineering and Applied Science, which aims to tackle the world's most challenging, fundamental scientific problems. The EAS department continued its long-standing pattern of success this year, as Ares Rosakis, professor of Aeronautics and Mechanical Engineering, was elected to the National Academy of Sciences in 2016 for his discipline-spanning research "from seismology to micro-electronic device reliability". Oscar Bruno, professor of applied and computational mathematics, was named a National Security Science and Engineering Faculty Fellow by the US Department of Defense for his top-tier work in developing high-performance simulation software. Additionally, Thomas Vidick, assistant professor of computing and mathematical sciences, was named an Air Force Young Investigator, receiving a grant from the Air Force Office of Scientific Research for his work on quantum networks.

HUMANITIES & SOCIAL SCIENCES
Human culture, sociopolitical behavior, decision-making - all are analyzed with intense academic rigor and curious insight by Caltech's Humanities and Social Sciences division. Spanning economics, history, political science, philosophy, and business, Caltech's HSS department is frequently recognized for its greatness. This year, Janet C. Campagna (MS '85 and CEO of QS Investors) was named a Caltech Distinguished Alumna for her contributions to quantitative investment and for her leadership in the financial industry, while The Association of American Publishers conferred the 2016 Award for Excellence in Physical Sciences & Mathematics to Princeton University Press for the digital edition of The Collected Papers of Robert Einstein. Caltech Professor of History Diana Kormos Buchwald is its Directory & General Editor.

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