



# *100 Years Young*

2015-16 CENTENNIAL Annual Report



# Dedication



Wes Hershey

In February 1916, eleven students from the Throop Institute of Technology established a student chapter of the national YMCA, which later became known as the Caltech Y. The founding members envisioned four goals for the organization:

1. to establish a student's employment bureau;
2. to welcome new students;
3. to encourage the higher ideals of college life;
4. and to serve as a religious influence among the fellows.

A great deal has changed since 1916, and the Y is no longer connected to YMCAs or religion; however, what has remained constant is the Y's purpose to serve students and the community. Thanks to the commitment of Caltech Y leaders, the Y continues to enrich student life and challenge students to grow into responsible citizens of the world.

This annual report celebrates our Centennial and is dedicated to Wes Hershey, the Caltech Y's director from 1946-1976. Wes's leadership throughout his thirty-year tenure as director shaped the Caltech Y into a robust and student-focused organization, and his impact is still felt in profound ways, such as through in-depth lecture-discussions on current events.

We also gratefully acknowledge the many students, board members, faculty, staff, and supporters of the Caltech Y, without whom this organization would not be what it is today. Moving forward into the next century, the Caltech Y's mission is clear, and our future is bright. In the words of Lee DuBridge, who saluted the Y on its fiftieth anniversary, "The Caltech Y is a major educational organization. May it live long and prosper forever!"



Margaret Flemming



Kenneth Rhodes dancing with wife Betty



Royal Sorensen



Ted Combs



## From the Executive Director

In this annual report, we celebrate the Caltech Y's Centennial, its successful campaign, and the pioneering spirit of its leaders.

We meet undergraduate student leaders Garrett Levine and Stephanie Hong, who see the Y through different lenses. Their perspectives of the Y and the world change as they lead an Indian cultural trip together and then forge new paths: With funding from the Y's new Patrick Hummel and Harry Gray Travel Fund, Garrett presents his undergraduate research at a science conference. Meanwhile, Stephanie leads Alternative Spring Break trips to medical clinics in Peru and Ecuador.

We also meet a seasoned leader, graduate student-turned-alumna Dorothy Pan, who takes breaks from her medical studies to mentor young students. She leads them through the San Gabriel mountains and the Grand Canyon, tending to their sore ankles along the way.

The Caltech Y exists to serve students and to challenge them to serve—not in one way, but in their own ways. That's one reason why the Y is 100 years young. As Board of Directors leader Kirk Dawson mentions in this annual report, the Y succeeds because the students "own" it. The Y was begun as a

campus YMCA at the request of eleven students in 1916, and it has been redefined and reinvigorated by students ever since. But as always, there's more to the Y story; for instance, there are additional leaders and donors behind the scenes.

We dedicate this annual report to a great Y leader named Wes Hershey. Wes led the Y from 1946—when he declared, "If there is a need, we will fill it"—until his retirement in 1976—when he said, "We have been concerned with fundamental human values and have been able to be at the right place at the right time." Wes's and the Y's impact is expertly recounted by Ted Combs at <https://caltechy.org/about/history/75years/>, and recent Y history can be found on our "publications" web page. As the Y story evolves, we learn from the past and look forward to our next hundred years. I invite you to explore this Centennial annual report, in which you may discover the "Why" behind the Y. And on behalf of our staff and supportive leaders, I thank you for the part you play in making the Y 100 years young!

**Athena R. Castro**  
*Executive Director, Caltech Y*



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## President Tom Rosenbaum

This year, the Caltech Y celebrates 100 years of inspiring service and commitment to Caltech and to our community. From its first days, the Y's supportive environment and multifaceted programming have broadened the leadership, service, and cultural experiences available to Caltech students. It is the purest form of education: teaching and learning by example. Generations of students not only have honed their skills, but they have applied their new found abilities to better the world.

Students are encouraged to step beyond campus boundaries, literal and figurative, and connect with the broader community. The Y has shown Caltech students how important, and gratifying, it is to enrich the learning experiences of local primary and secondary school students, to travel the world and share their passion for science and technology and service, to tackle social problems that limit opportunities for so many.

The Caltech Y and the Institute have developed a tried and true

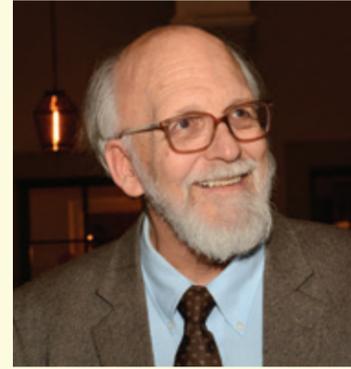
partnership. Together, Caltech and the Y provide a kaleidoscope of opportunities for students to step beyond the academics. The Y reminds our students, and serves as a reminder for Caltech faculty and staff as well, that a greater world beckons and requires our engagement.

The Y underscores for Caltech that engagement with the community and the world lends a perspective that deepens one's understanding of life and makes one a better scholar. Those who engage with the Y demonstrate, year after year, that by broadening their worldview and experiences, they are better prepared for the challenges that await.

Thank you for all that you do. The institute looks forward to our continuing, vital partnership.

**Thomas F. Rosenbaum**  
*President*  
*Sonja and William Davidow Presidential Chair*  
*and Professor of Physics*  
*The California Institute of Technology*

*Example isn't another way to teach,  
it is the only way to teach.*  
*Albert Einstein*



## Board Chair Dan Erickson

Both figuratively and literally, this has been a banner year for the Caltech Y. We celebrated our centennial, significantly expanded our endowments, and supported over seventy student activities.

Our banner proclaiming the 100 years of the Caltech Y flew over several events sharing the celebration of our centennial with students, faculty, staff, and alumni of Caltech. We shared the centennial with the community at a grand gala in the Athenaeum, including a proclamation from the City of Pasadena, presented by Mayor Terry Tornek. Our thanks go out to Caltech, the Y staff, the students, our supporters, and the board members and volunteers who made this a memorable and inspiring celebration.

Our Centennial Endowment Campaign continued, with substantial contributions, pledges, and estate commitments that will help the Caltech Y meet the challenges of its second century. The enhanced endowment helps the Caltech Y in its mission to help Caltech students enjoy a much needed break from the crucible of the classrooms and laboratories while gaining leadership experience and expanding their perspectives to include the culture and environment of Southern California and the diversity and needs of the local community, the nation and the world.

As it was in 1916, when students founded a chapter of the YMCA, the students themselves plan and lead Y activities. This gives students a chance to hone their leadership and teamwork skills. It also enables the programs to adapt rapidly to the changing needs and interests of the students. This year's activities included a new activity mentoring local tweens as well as traditional activities such as Decompression, tutoring, Make a Difference Day, outdoor adventures, the Social Activism Speaker Series, the

D.C. Policy Trip, and Alternative Spring Break.

The success of the Caltech Y depends on the support and collaboration of a great number of people from Caltech and the local community. The dedicated professionals and volunteers of the Y staff facilitate the student activities, and create a welcoming and supportive environment for the students. They often work outside of normal business hours to facilitate events. The staff maintains communications with Y supporters, alumni, and the local community. The staff also supports the student Executive Committee (ExComm) and Y Board of Directors. Caltech students, already busy with a world-class education workload, plan and execute events, volunteer in the Y office and at community events, make presentations about their Y activities, travel to remote events, and often pay a share of the expenses. This year, the staff and students put in extra effort to support the Centennial without compromising the activities at the



heart of the student experience. The Board of Directors is deeply grateful for their talent, dedication and enthusiasm. The Board is also grateful for the substantial support from Caltech, the alumni, and the local community.

**Daniel Erickson**, BS '67, PhD '74  
*Board Chairman 2016-17*



## Y ExComm President Kristie Yu

The front of the T-shirts that members of ExComm (the student executive committee of the Caltech Y Board of Directors) wear reads “ASK ME Y” in big white letters, and so I have been asked it quite often. That simple question can mean, “Why does the Y exist? Why did you get involved with the Y? Why should I know about the Y?” Despite the number of times I have been asked, I still hesitate to answer because the organization encompasses so much: from community service and outdoor activities to cultural perspective and leadership development. My experiences with the Y have made more of a difference in my life than my words can do justice to.

I am hardly alone in feeling this way. For over a hundred years (101!) now, the Caltech Y has been carrying out its mission by enriching student life and “challenging students to grow into responsible citizens of the world.” Through its more than seventy unique events and ongoing activities, affordable equipment rentals, and work study opportunities, the Y touches almost all students during their time at Caltech.

One of my first experiences when I stepped on campus was the Y’s service trip during freshman orientation. We spent the day painting walls and getting to know each other at a nearby Boys and Girls Club. During fall term, I also joined the Rise program, which

provides after-school STEM tutoring for PUSD students in grades 8-12. Thus, I gained an appreciation for community service opportunities offered through the Y early on.

In my sophomore year, I started attending the weekly Y meetings and joined the ExComm. During these meetings, ExComm members and other students gather in the cozy front room of the Y house, eating pizza or Chinese food and brainstorming events to carry out. My favorite part of the meetings is hearing people’s innovative ideas and volunteering to lead or participate in events. I am often inspired by their willingness to help their fellow students, such as by planning Explore LA events or running Decompression (preparing grilled food and entertainment right before finals week), as well as helping out in the community. It is amazing to hear someone propose a new community service program that she is passionate about and then see it set up and happening regularly, like Kids Reading to Succeed or Mentoring for Life in the past year.

I enjoy the community service I have done through the Y because of the invaluable experiences I gained. I have learned a lot from my Rise tutees on how to be more supportive and constructive. Having been in this program for the last four years, I have seen some of my past tutees grow up too, and I talked to one who got really excited telling me about his new AP classes and how he cares more about his classes in general now. Besides Rise, I also

participated in shorter one-day projects like cooking at Union Station, building race cars with kids at Hillside Home, and gardening at the Boys and Girls Club. In addition to learning how to lead a project, I learned a lot of practical skills, learned about volunteer organizations that serve the wider Pasadena community, and met a lot of interesting people like from the passionate volunteer coordinators at Hillside and Boys and Girls Club to a lady who called me her soul sister for watching *Real Housewives* with her. One of my most important takeaways from my time here is meeting people from different backgrounds and learning from each other’s stories and experiences.

The Y really brings people together—not only the people I met at volunteer sites but also the diverse members of the Caltech community that I got to volunteer alongside (undergraduates from all Houses, graduate students, postdocs, and staff), the amazing Y staff members, the Board of Directors, and the Friends of the Y. Thank you for your continued support that has made these programs possible and enriched the lives of many students.

**Kristie Yu '17**  
*Y ExComm President*  
2016-2017



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\*indicates student member

# Stephanie Grows Up

with the Y

**When the going gets tough, how do students get away from their books to attend and even lead Caltech Y programs? What are the results? For instance, how did Stephanie Hong conquer a “sometimes hopeless” undergraduate workload—and shyness—to eventually lead international trips and see medicine in a new light?**

Stephanie describes her “love-hate relationship with Caltech: I had a really hard time the first two years. It was so stressful.” She had to amend her high-school ways as “a serial procrastinator.” As she became self-motivated and honed her time-management skills, and as the workload decreased by her junior year, Stephanie was even “grateful for the hardships: I would have continued to procrastinate if I had gone somewhere else. But it could have been easier!”

School kept her so busy that, as a freshman, she couldn’t go to the first few meetings of the Caltech Y’s student Executive Committee, known as the ExComm. “But I always wanted to join,” she says. When she did attend, she felt shy and was confused by the planning that was already in progress. She didn’t reconnect with the Y for months, at which time she saw a

House email announcing the Y’s Alternative Spring Break trip to Costa Rica. She still might not have gone, but a junior in her House was leading it and encouraged her to go.

In Costa Rica, “we renovated an old church and stayed with a host family in one of the poorer areas of San Juan. On this and every Y trip, I met a lot of people I hadn’t known well, and everyone befriended each other. We had evenings free, so we went to the travel place next to the volunteer headquarters and arranged our own tours to waterfalls, a coffee plantation, and a volcano, and we went ziplining.” This—plus tutoring for the Rise Program and cooking for the homeless at Union Station, among other Y activities—was “my break for two years.”

After Stephanie went to Costa Rica, she no longer felt like a “random undergrad” when she attended Y ExComm meetings. She began to take on leadership roles, serving as secretary of the ExComm in 2016-17, and she made sure that newcomers at the Y ExComm meetings were introduced to everyone so they wouldn’t feel like random undergrads. She doesn’t volunteer in order to enhance her med-school applications; she participates to see more of the world, to volunteer at free clinics, and to hold kittens in the palm of her hand, to name a few of her reasons. For the Y’s Make a Difference Day, Stephanie painted walls and pet the animals at the Humane Society in San Gabriel. “Last year there was a box filled with kittens the size of my palm. It’s the small things that make you happy. ... With the Y, we have fun, and we help. It’s a win-win.”

As a junior and senior, Stephanie helped lead Alternative Spring Break trips to Peru and Ecuador, working in MedLife clinics at both sites. She prepared for these leadership roles by helping Garrett Levine lead the Y’s

cultural trip to India (see his story in this report). “India didn’t match my expectations. I assumed it was more developed than it was.” Stephanie saw that there were “social issues below the surface, with gender and religious rights.” She notes that Garrett was the expert student-leader in India because that was his second year participating in the program. In Ecuador, she was “the ‘Garrett’ of that trip.” After all, Y participants turn into leaders thanks to experience—and thanks to Y staff who help prepare and accompany the students.

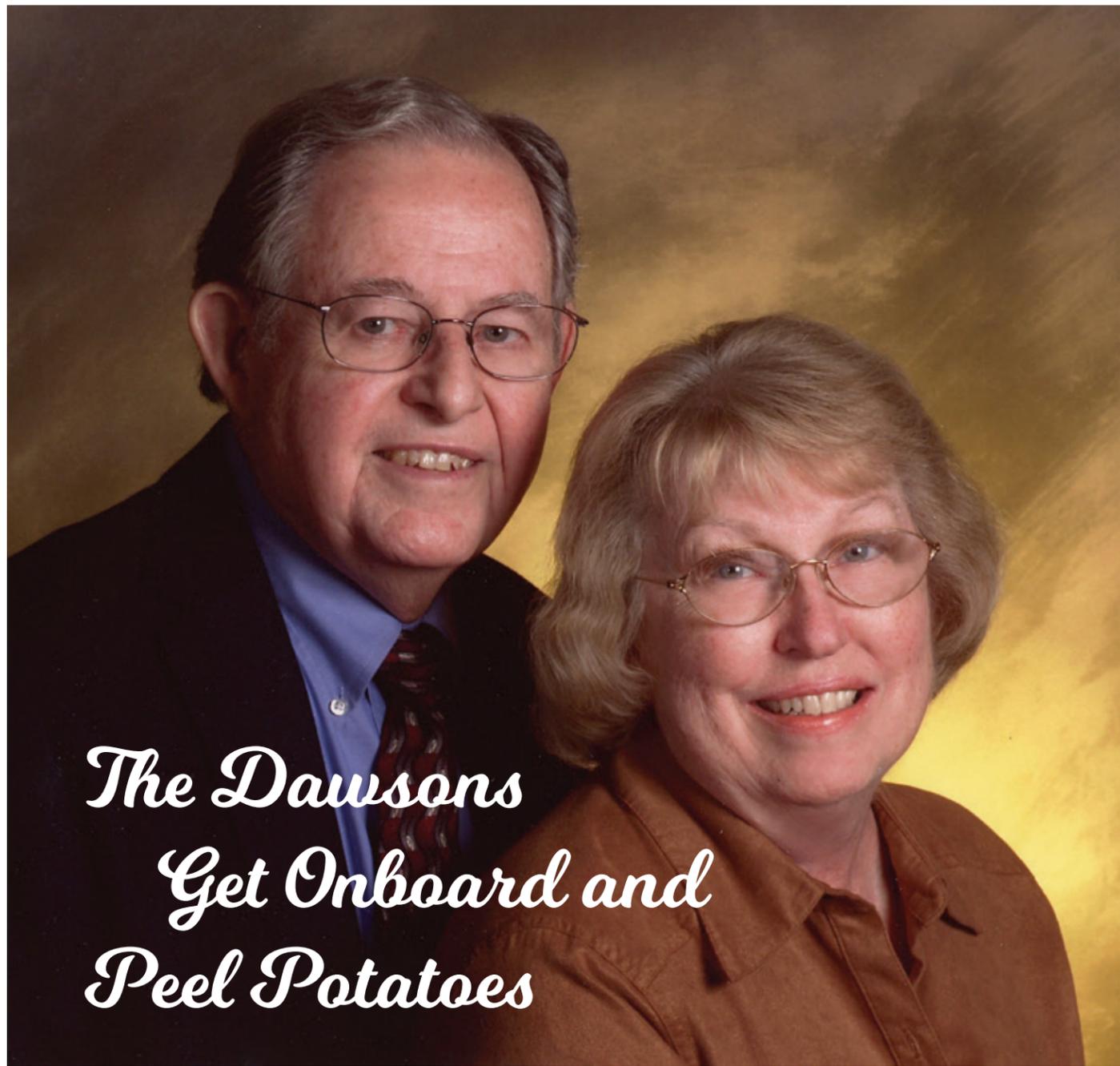
Her medical-volunteer trips greatly influenced Stephanie and her career plans. “That’s when I saw so many people with limited or no access to healthcare. I grew up. I realized that the world wasn’t as ideal as I thought it was.”

Seeing firsthand “the problems that we associate with third-world countries, when I thought about it, I realized that it happens at home too. Even here in the U.S., people with lower incomes have far inferior medical treatment. ... It’s sad to see that patients get a lot less at free clinics, but it’s good that the clinics are offered.” Her volunteer work gave her a different perspective of the medical field. Before going to Peru, “I wanted to be a doctor because I like biology and anatomy. Now, I see how I can help the world as a doctor.”

Armed with new perspectives, leadership skills, and newfound purpose, Stephanie is ready to take on the stresses of medical school and a career. She hopes that her school will offer free clinics to serve the underserved. “When I go to med-school, I will be concerned with socioeconomic issues.”

As for her shyness? “I’ve definitely improved,” she says. “College helps a lot, and so does the Y. Meeting different people and being in new places is good for developing social and life skills.”





## *The Dawsons Get Onboard and Peel Potatoes*

**When Kirk and Marjory Dawson joined the Caltech Y board in 2011, they set out to fully understand “what the Y is.” Within two years, Kirk—who holds a BS and MS from Caltech—knew the Y’s story well enough to co-chair the Y’s Centennial Campaign with Pam Hemann. And from 2014 to 2016, he served as board chair. In the process, he and Marjory not only came to understand the Y, they also contributed greatly to its evolution and future success.**

Early on, they and their peers tackled the question: “How do we tell people how good the Y is? What’s our database?” One might expect a Caltech group to focus on the numbers, but here, Kirk and his team gathered qualitative data by talking to leaders, each of whom had a different impression of the Y. For example Charles Elachi, a Caltech professor and former director of JPL, appreciated the Y’s leadership opportunities, while Caltech Life

Trustee Simon Ramo noted that Y interactions help students fit into society and “communicate science to society.” In another case, Kirk says that former Pasadena mayor Bill Bogaard pointed to the Y’s service to the community—particularly to students who weren’t doing well in school but “turned around” thanks to the help they received in the Y’s Rise tutoring program.

It’s easiest to understand the Y’s multifaceted program when one considers its five pillars: programming is focused on Service, Adventure, and Civic Engagement, while outcomes include Leadership and Perspective.

As the Y story unfolded, the Dawsons soon realized that “the beating heart of the Y is the ExComm”: the board’s student Executive Committee. “This group actually selects all the Y’s activities, which totalled more than seventy this year,” says Kirk. “Imagine the debating and budgeting that goes on in these student meetings as a lot of different opinions are shared.” Students initiate programs as groundbreaking as the D.C. Science Policy Trip (which is discussed by alumnus John Andelin and grad student Tess Saxton-Fox in the past two annual reports).

“One reason the Y has succeeded for 100 years is because the students take ownership of the programs. The ExComm runs the show” and, because students initiate, plan, and lead the events, participation is impressive, he says. The ExComm’s eighteen elected undergraduate and graduate students serve on and report to the Y board. The board, which Kirk chaired until recently, is comprised of members of the Caltech, JPL, and broader community. (Interestingly, board members are invited to serve with their spouses, as Kirk and Marjory chose to do.)

Executive Director Athena Castro thanks the Dawsons, Pam, and numerous supporters for building a strong endowment through the Caltech Y’s Centennial Campaign. “The campaign quickly surpassed its initial goal of \$3 million and neared its ambitious new goal of \$5 million,”

she says. “Our leaders told the Y’s story so well, and our community responded with such generosity, that the Y now begins its second century with a strong foundation and an ability to expand its student-initiated-and-led programs.”

Beyond the Caltech Y, Kirk has led boards and campaigns locally—strengthening programs including SURF, the YMCA of the Foothills, and the United Way, in the San Gabriel Valley and at JPL. “He seems to have a talent for this,” says Marjory, who married Kirk in 1961, thanks to a blind date that apparently went well for these two Occidental College students. After they met, Kirk completed his Oxy physics degree and two Caltech degrees in electrical engineering, and then worked 39 years at JPL: “his entire career,” says Marjory. Meanwhile, Marjory used her education degree to teach kindergarten and special education.

The Dawsons understand the Y in light of their experience as students and leaders. For instance, Marjory’s work with kindergartners leads to this comparison: “Even as twenty-somethings, Caltech students are still ‘kids’ to me. They still have needs. ... Remember where these students were in high school: very focused on classes,” she adds. “And at Caltech they’ll continue focusing because they’re learning what they’re interested in. The Caltech Y shows them that there’s more to life than classes, and that’s good.”

Kirk can speak to Caltech’s immense academic pressure because he lived it. “Some students stand up under the pressure, but many need an outlet. They need to kick back. It’s hard to think about a bad grade while you’re hiking. For students who need it, the Y serves as a pressure-release organization,” Kirk says. “Many students say the Y got them through.”

For 100 years, students have converged at the Y to meet student and community needs. For instance, when the Y became more independent from Caltech and established a Memorandum of Understanding (MOU) with the Institute in 1998, the Y pledged

“to provide resources and opportunities to ... empower students to learn about themselves and their place in the world community through increased social, ethical, and cultural awareness.” Events were designed to “address unmet student needs [and serve] the campus community at large.” Nowadays, at weekly ExComm meetings, students initiate and prepare to lead Y events that take them places ranging from Highland Park to India. Students get a break from class and lab, explore interests and communities, host dinners at Union Station, and more.

Kirk learned firsthand what it means to “serve dinner” at Union Station. By 2014, he was encouraging all Y board members to get personally involved in a Y activity in order to be better ambassadors. Kirk realized that, “If I’m encouraging people to become involved, I’d better do that myself.” So he went with students to Union Station.

“I thought the staff of the shelter would prepare the meal, and we would serve it. I was so wrong!” Kirk found out that, days before he showed up, Caltech students had created the menu, bought food, and stored it at the Y. Now they would load up a van at 4:30, navigate an industrial kitchen without help, prepare and cook a full meal for approximately sixty people, and clean up until the kitchen was spotless, three hours later.

“They knew what to do,” says Kirk, who asked how he could contribute. “I peeled a lot of potatoes.”

Whether serving or adventuring, “Y activities are always about learning,” Kirk adds. “Why is the Y important?” Kirk asks. “Because students learn about themselves and gain experience that’s not available in classrooms or laboratories.” On kayaking, D.C. and international trips, and cleaning up the L.A. river on Make a Difference Day, “the students blossom.” That’s the Y story, through the Dawsons’ eyes, and that’s why the Dawsons speak for the Y.

# Garrett Gains New Perspectives

**With the Caltech Y, I've gone places—literally: to the state of Gujarat in India and to a science conference in Texas.**

**These trips resulted in great personal growth because they involved experiential learning, something I don't get as often as I'd like at Caltech.**

The Y's "India Ki Koj" program means "In Search of India," and it began in 2012 as an exchange program with the Indian Institute of Technology (IIT) at Gandhinagar. IIT students come to Caltech as SURF summer research fellows, and the Caltech Y brings students to Gujarat for a cultural trip each winter. I was fortunate and grateful to be one of those Y students, attending lectures by Indian professors and visiting cultural sites in 2015, and being invited to return as a student leader the next year.

During the first days of lectures in India, I viewed the place as something to be studied, and I stayed somewhat aloof. Ironically, when we went outside the classroom, I learned the most. At Adalaj, while standing five feet above ground level to look down

into a 500-year-old Hindu temple, I had a profound realization. As the sounds of the city slowly drew my attention—the honking of horns, shouts of children, and growl of car engine—I imagined myself living the lives of the people I was observing. I thought about the poverty that India experiences and how the Western World sometimes sees it as its duty to "modernize" the country. At the same time, I thought about how Indians have built beautiful temples and seem more spiritually "in-touch" than most Americans.

I had an epiphany: we have as much to learn from Indians as they do from us. The flow of ideas and "aid" shouldn't be a one-way process. Rather, it needs to happen in both directions. I decided to absorb as much as I could about India and its culture, and I was struck by people's process-driven mindset. Instead of emphasizing results, people prided themselves on the actions taken to get there.

In my life, being a baseball player can be pretty frustrating at times, especially at Caltech. The best hitters fail 7 out of 10 times, and at Caltech, we don't win very often. I'll always want to win every game—there's no changing that—but India taught me that I shouldn't take for granted the fact that I can hit baseballs in the batting cage every day when it's 70 degrees and sunny, unlike in my home state of Ohio. Now, my practice is not just a tool to win games, but it brings me meaning.

After my Indian voyage, I prepared for a short trip to Houston that, for me, would be a giant leap: presenting my JPL Europa research

at a Lunar and Planetary Science Conference. This trip was possible thanks to a grant from the Y's new Patrick Hummel and Harry Gray Travel Fund. I was nervous when my JPL mentor told me that I should present my work, but I decided to take on the challenge. After attending talks at the conference, it was my turn to participate in a poster session. It was rewarding to discuss research face-to-face with scientists whose papers I'd cited. In planetary science terms, these were the rock stars of the scientific world.

These were some of the most intellectually challenging and stimulating conversations I'd ever had. In just two days, I learned an unimaginable amount about Ceres and Pluto—much of which was discovered just a few months prior, I had my first experience presenting at a conference, and I made connections in planetary science that I'll keep as I move forward in my career.

Ready to return to India as a student leader, I'm so excited to bring my energy and enthusiasm to the trip, to share my extraordinary experiences with other Caltech students, and to rekindle friendships with IIT student hosts. Through the Caltech Y programs, I've broadened my perspective and had life experiences that I otherwise wouldn't have had. Now I question and think about how I think. To me, that's what the Caltech Y is all about.

Garrett Levine (right)  
and Tyler Okamoto  
(left) in India.



## Harry Gray Helps Students Go Places

**“If you’re not making mistakes, you’re not doing anything interesting,” says Harry Gray, Caltech’s Arnold O. Beckman Professor of Chemistry.**

When it comes to scientific research, “Many kids are scared to make mistakes,” he adds. “But we learn by making mistakes and correcting them, over and over. That’s how science progresses.”

That’s also how the communication of science progresses. Harry’s students learn this the hard way. For example, as a PhD student, Jeremiah Miller met with Harry so many times to perfect a research paper that, one day, when he walked into Harry’s office, he vented his frustration: “Harry, this is my 67th draft,” Jeremiah said. “I’ve had it!”

Harry smiled and said, “This is gonna be great.” The paper was soon praised for being “exceptionally well-written.” Harry expects nothing less.

“I always tell students, ‘If you can’t write and you can’t talk, you are going nowhere.’” Students take Harry’s words to heart, literally.

They print his mantra on T-shirts. Those T-shirts could show up anywhere in the world, because Harry has hosted flocks of SURF and graduate students in his lab since 1966, which is when he came to Caltech from Columbia University. He has taken many others under his wing and watched his flocks migrate way beyond “nowhere.”

Harry hopes to get many more students out into the world to communicate their science—while they are still undergraduates. And when Harry makes wishes, they come true. In addition to inspiring generations of scientists and T-shirt designs, he recently inspired family friends—Carla, Paul, and their son Patrick Hummel (BS ’06)—to launch

a Caltech Y travel fund as part of a team that includes his wife, Shirley. It’s called the Patrick Hummel and Harry Gray Travel Fund.

Patrick explains how it came to be: “Harry was an extraordinary mentor who had a profound and positive impact on my life, so my family and I asked him how we could honor him on his 80th birthday. Harry suggested this travel fund, which will provide many opportunities for Caltech undergraduates to travel to conferences, year after year.”

The Grays and the Hummels chose the Caltech Y as the place for this collaborative fund for a few reasons. For one, they found that the Y’s policies were flexible enough to make this dream come true; the fund didn’t have to be huge at the outset, and people can still boost it to higher levels, says Harry. Secondly, Y staff members “made the whole process fun.” Anyone who knows Harry knows that, to him, “fun” is at least as important as “communication.” The third reason is that Harry and his “kids” love the Y.

“The undergraduates who have worked with me rave about the Y,” he says. For example, “they return from the D.C. Policy Trip and tell me how much they learned about government.” The Caltech Y is their window to the world, he adds, and “it gives them a break from my intensity.”

He says many Caltech students have been sheltered and have focused on grades to the point where “they think top scores are the be-all and end-all. That’s so wrong. The Y programs give them the broader perspective that they need. It does so much for students’ mental health and development. I don’t think Caltech could really exist without the Y.”

In summary, Harry adds, “The Y makes students less nerdy, more normal.”

The Y’s new Hummel-Gray Travel Fund dovetails with the Y’s mission. As one website notes,

“The endowed fund supports undergraduate travel opportunities that promote professional leadership development and broadens students’ perspective as engaged, responsible citizens of the world.”

One recent recipient, Garrett Levine, talks about the influence this award has had on him (story on previous pages). As a sophomore, Garrett was among five students who used the new travel fund to attend a conference. By attending the Lunar and Planetary Science Conference in Houston, he had the opportunity to present his research to professors whose papers he had cited. It was like talking with “rock stars,” he says, and it was intellectually challenging. Garrett is shaping up to be a great communicator—great enough to be the opening act to Harry Gray’s 2016 Caltech Y lecture on “The Joy of Research and Teaching.”

Why is it so important to communicate well, and even to teach one’s research? Harry has found that when he communicates his research more clearly, and more widely, he gains a better understanding of it, as do his audience members. In other words, the process of making oneself understood at multiple levels—for layperson, college student, and professional—leads to more understanding and then ... discovery!

“A lot of my best ideas come when I’m trying to explain something to a student in a new way, so that a student will get it. Suddenly I’ll think up an experiment that I want to do to shed light on a subject.”

So which came first, Harry’s joy of research, or his joy of teaching? From day one at Columbia, and then at Caltech, “my focus on research has been driving my teaching,” Harry says. He has taught his research as part of a class ever since then. In this way, he inspires students to learn how real-life lab-work relates to their

core curriculum. Without the bond between research and teaching, his classes would have been more “business as usual” rather than excitement. Students call his Advanced Inorganic Chemistry class “The Harry Gray Show,” notes Agnes Tong, the Y’s director of marketing and development.

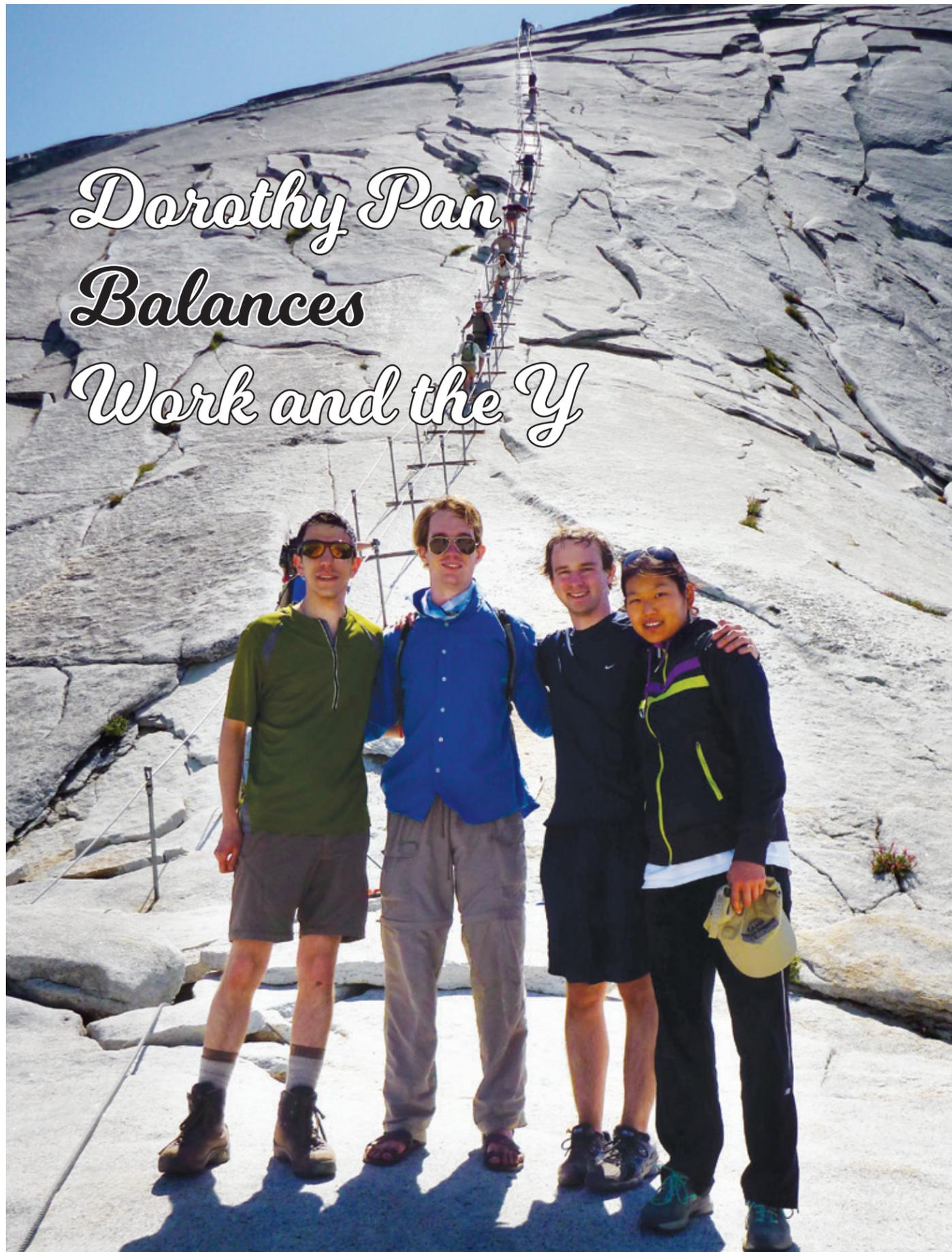
“I claim you’ll be a much better researcher if you’re a better teacher,” says Harry. (In 1990, Harry lectured about this for the American Chemical Society while accepting its highest award, the Priestley Medal.) Harry is disheartened when professors wish they could only focus on research instead of teaching. “They shouldn’t even call themselves professors,” he says, but then he realizes that “most of those dinosaurs have retired! The students who are now coming out of college all have ideas about what they want to change in class. Things have changed dramatically.”

Why? “The funding agencies have helped the whole business. The National Science Foundation, in particular, rewards innovation in teaching, outreach, and connecting with people. In the past, research was the focus. But that has changed to the point where PhD programs all emphasize teaching as an important part of the program—not just something graduate students have to do to pay their tuition bills.”

Will Harry’s next speech touch on the joy of grant writing? Even he doesn’t know. Though he’s a meticulous editor and writer, Harry finds that speaking is like breathing. It just happens.

“I like to look out at an audience and, based on who I see, I decide, at that time, what I’m going to talk about. The audience is always different than I expect.” Stagefright is not on Harry’s agenda: “I never get nervous when I speak. I’m very confident—maybe too confident. I only get nervous when people don’t let me speak.” So we’ll let Harry tell us why he’s so confident.

Without hesitation, he says, “I’m not afraid of making mistakes.”



# Dorothy Pan Balances Work and the Y

**“In fields where you can’t save everyone, you are driven to do research to find out more,” says Dorothy Pan.**

Dorothy plans to help and heal as many people as possible, so she is doubling her efforts as a student in the prestigious USC-Caltech MD/PhD program. She has now completed her PhD and has returned to LAC+USC medical center for her final years of medical school.

Her path is not for the faint of heart or the weak of stomach. On a Career Day when Dorothy was in elementary school, her classmate’s father showed students a video of a coronary angiogram. The rest of the students said the procedure looked “so gross,” but Dorothy was engrossed.

Since that day, “I’ve always wanted to be a doctor,” she says. For her, the trail to USC and Caltech included chemistry studies at Stanford, volunteer work in free health clinics, and the experience of working with Stanford professors who were MD/PhDs.

Her trail to the Caltech Y included additional twists and turns. As a child, Dorothy visited national parks with her family and had the chance to take her first backpacking trip as a Stanford student. A different opportunity arose after Dorothy took step one of her national medical board exams. She had a spare month before starting her research at Caltech, so she volunteered at a camp designed for children who have insulin dependent diabetes mellitus. At the mountain camp in Southern California, the children receive help managing blood-sugar from medical volunteers while engaged in summer camp activities like hiking. In the process, the campers learn that “diabetes doesn’t limit them.”

From this experience, Dorothy learned how helpful outdoor challenges can be, and she decided to check out Caltech Y hikes when



she returned from the camp to settle in Pasadena.

After participating in a couple of Y hikes, she heard from activities director Greg Fletcher that more leaders were needed. So she became one.

“I like to plan and be in charge of things,” she says. “I’m going to be an MD, so I’ll be in charge of a healthcare team.”

Dorothy has found that a lot of students have no hiking or backpacking experience. She is able to help with this and more. Dorothy earned the Wilderness Medical Institute’s wilderness first aid certification, a program that the Caltech Alpine Club hosted to prepare students for outdoor hardships. She can’t treat sick hikers as a medical doctor yet, but she and Rebecca Rojanski (a UCLA-Caltech MD/PhD student) proved to be exceptionally qualified to tape ankles and help with altitude sickness as they led their students on hikes. Now that they’ve both received their PhDs and immersed themselves in clinical rotations, it has become a big challenge to make time for hiking.

“There’s always work, and there will always be more work,” says Dorothy. To maintain balance throughout college, she gave up playing the violin to spend more time playing the flute. She enjoys sharing her talents through both community service and formal concerts: in college she taught flute to underserved middle school students as a volunteer

while performing with the Stanford Symphony Orchestra, and

now continues to soothe patients in hospitals with their favorite songs while serving as principal flutist of the Caltech Symphony Orchestra.

Dorothy also volunteers at a clinic on Skid Row and is impressed by USC’s commitment to health care for underserved patients. As a former resident advisor at Caltech, she has helped roommates get along, and she led the Chemistry department’s first programming board. If she had more time, she would tutor with the Caltech Y’s Rise Program, cook meals at Union Station, improve trails, and lead more hikes. “It always feels good to give back to the community,” she says.

As a Y leader, Dorothy led multi-day trips as far away as the Grand Canyon, sometimes needing to tend to sick hikers. More locally, she gave “Adventure 101” talks about hikes in the area with Jeremy Sandler, a grad student who was featured in last year’s Y annual report. In talks, she and Jeremy cited studies showing that “spending time outdoors in nature makes people more creative, and green spaces and parks lower stress levels.” In addition, on Y hikes, “you meet people, which can help students feel less isolated.” Hikes also allow undergraduate students to talk with grad students and learn about career paths, such as becoming a physician-scientist.

“Y hikes are great for work-life balance,” Dorothy concludes.

# CALTECH Y Centennial Events

The Caltech Y celebrated its Centennial in grand style with a series of events during the 2015-16 academic year.



## Hollywood Student Dinner October 6, 2015

We kicked off our Centennial celebration with a Hollywood-inspired campus-wide dinner followed by a screening of the Caltech Y's Centennial video directed by alum and board member Iram Parveen Bilal and the movie "Piled Higher and Deeper (PHD): Still in Grad School" (also known as the "PHD Movie 2"). More than 1,000 people enjoyed the evening's festivities. Caltech Dining Services prepared a Hollywood-inspired dinner extravaganza complete with a hill-top Hollywood sign (with the Y logo in the center), LA freeway signs, red-carpet entry, VIP lounge, and iconic LA-inspired food stations. The movie screening included remarks by director and alumna Iram Parveen Bilal and creator Jorge Cham. They were joined by a panel of actors, many of whom were Caltech students, staff, and faculty.

Special thanks go to The Caltech Management Association (CMA), Caltech Dining Services (CDS), the Institute for Quantum Information & Matter (IQIM), and Piled Higher and Deeper (PHD Comics) for their significant support and efforts to help the Y celebrate 100 years in style!

## Board Reunion October 18, 2015

On Sunday, October 18, 2015, seventy current and past Caltech Y Board members and Caltech alumni attended the Y's Board reunion. We were especially honored to welcome previous executive director Lucy Guernsey in whose name The Lucy Guernsey Service Award was established in 1992 by the Caltech Y ExComm. The award was created in recognition of her leadership, dedication to students, and diligence to furthering the Y's commitment to volunteerism. Everyone enjoyed reminiscing and renewing friendships.

## Legends of Caltech: Pranksters Panel and Cooking with Tom Mannion October 24, 2015

Centennial celebrations extended to Washington, DC, with a cooking class led by Tom Mannion, Caltech's Senior Director for Student Activities and Programs, and a prank panel discussion with the masterminds of some of the legendary pranks in Caltech's history, including the Caltech Hollywood sign prank, the MIT shirts, MIT-Caltech mug prank, and the Pasadena sign prank. Approximately forty alumni and guests, including two well behaved future Techers still in diapers, gathered for the first ever Friends event in Washington, D.C. on Saturday, October 24.

Special thanks go to prank panelists Dwight Berg, Spiros Michalakakis, Julie Jester, Samantha Piszkiwicz, and Greg Izatt; to chefs of the evening, Tom Mannion and his helpers Matt Fu, Christine Viveiros, and Sebastian Rojas Mata; our gracious hosts Ayeh Bandeh-Ahmadi and Ralph Lin; and organizers Iram Parveen Bilal and Tim Boyd.



## Fall Friends Dinner Featuring Professor Katherine Faber November 10, 2015

The Caltech Y's year of centennial celebrations continued with the November 10 Friends Dinner featuring Professor Katherine Faber, the Simon Ramo Professor of Materials Science and Co-Director of the Northwestern University/Art Institute of Chicago Center for Scientific Studies in the Arts. Professor Faber's talk, entitled "Where Art Meets Science: Solving Art's Mysteries," touched on her research and the coupling of science, engineering, and art to build bridges across disciplines. The evening began with a reception where 130 Friends and special guests mingled and viewed a slide show of selected photographs from the Caltech Y archives, covering nearly 100 years of Y history. It was a captivating and enjoyable evening!



## Birthday Bash February 26, 2016

February marked the official founding in 1916 of the Caltech Y as a student organization on campus. To celebrate, Y board members and staff served several hundred slices of birthday cake and distributed centennial t-shirts to students, faculty, and staff.



## Spring Friends Dinner and Gala, guest speaker Kip Thorne April 19, 2016

An April Friends Dinner and Gala featured special guest Kip Thorne, Caltech's Feynman Professor of Theoretical Physics, Emeritus, and welcomed 235 guests. Emeritus board member Frank Dryden set the tone for the evening with a champagne toast to the Caltech Y. The evening included a review of the Y's contributions to the campus and community, an update on the Y's endowment campaign, and welcoming remarks by Student ExComm President Kristie Yu and Executive Director Athena Castro. Pasadena's Mayor Terry Tornek presented a special city commendation to the Caltech Y for its many years of service to the community. Featured speaker Professor Kip Thorne shared some of his experiences with the Y as an undergraduate and related his experience during the making of the major motion picture "Interstellar," for which he generated the computer graphics. Guests were also treated with special commemorative Centennial champagne flutes, courtesy of Kirk and Marjory Dawson.

We gratefully acknowledge the many sponsors for the event, including the title sponsor: the Caltech Employees Federal Credit Union.

## Pictorial Retrospective May 21 and 22, 2016

The year of celebrations ended during Reunion Weekend, which featured a pictorial retrospective during Seminar Day and at the annual reunion lunch. On display were historical photos throughout the Y's history. Alumni had the opportunity to share their favorite Y memories and talk with current board members, students, and staff.

Centennial events were coordinated with a special Centennial Committee, co-chaired by Don and Judy Collins. Committee members included Gunilla Hastrup, Karen Blake, Susan Murakami, Nancy Lan, Arlana Silver, Steve Frautschi, Steve Toner, Daniel Erickson, Daniel Yoder, Don Brown, Toni Perpall, Paula Stamp, and Pam Hemann.



# Leadership History and Awards

## Professional Leaders of the Caltech Y

**Executive Director**  
2000–present Athena R. Castro  
1992–00 Susan E. Borrego

**Director**  
1989–92 Lucy Guernsey  
1988–89 Paul Gibson  
1987–88 Ken McGuire  
1982–87 Huston Horn  
1978–82 Walt Meader

**Executive Secretary and later Director**  
1946–76 Wesley (Wes) Hershey

**Secretary**  
1942–46 Paul Ackerman  
1937–41 John Price  
1934–36 Charles Thomas (part time)  
1925–34 Charles Schwieso  
1923–25 (volunteers)  
1920–23 Hal Musselman  
1919–20 Stanley Robson

## Student Award Recipients

### Paul Studenski Memorial Award

Created in memory of Paul Studenski, a Caltech student who was killed in an automobile accident while traveling across the United States in 1974. It is awarded to a Caltech undergraduate who has reached a crossroad in life and would benefit from a period away from the academic community to gain self-awareness and explore possible directions for the future.

- 2017 Jessica Cheng
- 2016 Mara Green and Dan Ilyin
- 2015 Alice Michel
- 2014 Margaux Lopez
- 2013 Teo Wilkening
- 2011 Laura Decker
- 2010 Katie Brennan
- 2009 Sara Hunt
- 2008 Erin Flanagin
- 2007 Elena Hartoonian
- 2006 Herschel Mukherjee
- 2005 Felicia Katz
- 2004 Libin Zhang
- 2003 Iram Parveen Bilal
- 2002 Katie Homann
- 2001 Nathaniel Austin
- 2000 Andrew Hafer
- 1999 Jessie Kim  
Amit Kshatriya
- 1998 Sara Beaver  
Shane Ross
- 1997 Brian Collins
- 1996 Ben Hendricks
- 1995 Elizabeth Lee  
Bridget Mattingly
- 1994 Brian Brewington  
Hsun Chou  
Rebecca Green  
Susy Kohout
- 1992 Swathi Ganaraj  
Andrea Mejia
- 1991 Keith Akama
- 1988 Dean Elzinga

Please help us fill in the gap in our records of 1976-1987 Studenski Memorial Award recipients. Contact the Y office if you have additional names.



ExComm with Lucy Guernsey

### ACT (Advocating Change Together) Award

Offers students an opportunity to explore a cause and make a difference. Funded by the Caltech Employees Federal Credit Union (CEFCU).

- 2017 Yu Su and Jinglin Huang
- 2016 Phillip An and Katherine Guo
- 2015 Amanda Shing
- 2014 Ryeen Islam
- 2013 Janani Mandayam Comar
- 2012 Amol Kamat
- 2008 Alice Robie and Joey Koehler

### Patrick Hummel and Harry Gray Travel Award

Established as a joint gift from Carla and Paul Hummel, Patrick Hummel, and Shirley and Harry Gray to support undergraduate travel opportunities that promote professional and leadership development and broaden students' perspectives.

- 2017 Phillip An, Moriah Bischann, Daniel Lim, Anvita Mishra, Tynan Ochse, Yujie Xu, Yanbing Zhu
- 2016 Kurtis Carsch, Advitheey Chelikani, Ida Huang, Garrett Levine, Anushka Rau

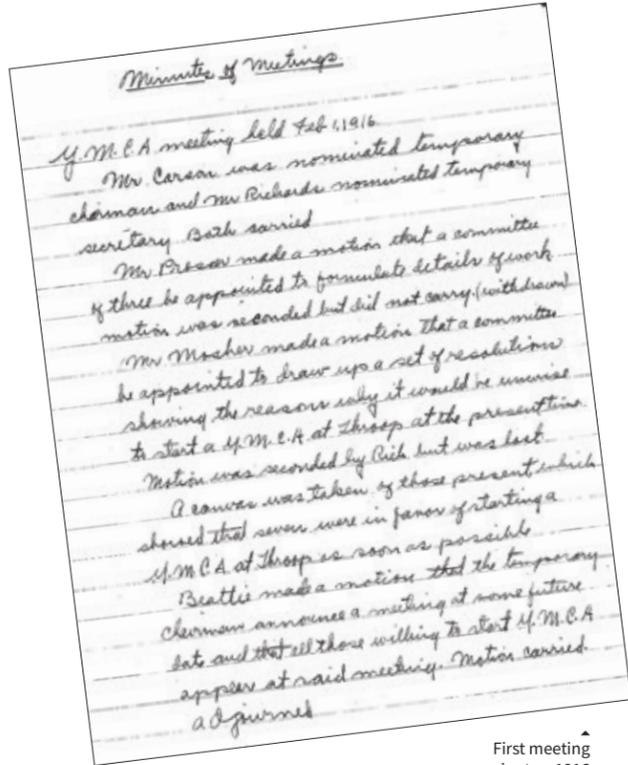
### Lucy Guernsey Service Award

Initiated in 1992 by the Caltech Y ExComm in honor of Lucy Guernsey, the Caltech Y's Executive Director from 1989-1992, in recognition of her leadership, dedication to students, and diligence to furthering the Y's commitment to volunteerism.

- 2017 Stephanie Hong and Sherwood Richers
- 2016 Peter Hung
- 2015 Vansh Kumar, Emil Khabiboulline, and Melissa Chang
- 2014 Josie Kishi
- 2013 Susan Liao and Erik Zhang
- 2012 Katja Luxem and Lisa Mauger
- 2011 Hanna Liu and Casey Jao
- 2010 Jason Lunn and David Doll
- 2009 Sunny Chun and Tara Gomez
- 2008 Vamsi Chavakula and Karen Warousek
- 2007 Abdul Ahad Tariq and Dan Feldman
- 2006 Radhika Gowaikar and Kai Shen
- 2005 Sidharth Jaggi and Eva Murdock
- 2004 Spencer Mortensen
- 2003 Joy Qiu
- 2002 Niki Zacharias
- 2001 Jennifer Caron
- 2000 Elizabeth Chiang
- 1999 Andrew Hafer
- 1998 Timothy Henson
- 1997 Heather Dean
- 1996 Greg Steiert
- 1995 Jean Andino
- 1994 Seiya Fukuda
- 1993 Claudine Butcher
- 1992 Dan Sandoval



# Caltech Y's 100 Year History



First meeting minutes, 1916



Tech "Y" News, 1928

**1916**  
 Students vote to establish a student chapter of the National Young Men's Christian Association (YMCA).

**1918**  
 The Y was primarily a service organization. During WWI, it provided refreshments and other services for the soldiers training on campus and at the Santa Anita Racetrack.

**1918-19**  
 Membership for The Y rose from 26 to 150 and the annual budget went from \$100 to \$2,000.

**1920**  
 Throop College becomes the California Institute of Technology.



**1922**  
 Discussion groups were established from which emerged what is known today as New Student Orientation.

**1924**  
 An Advisory Board (composed primarily of faculty, local clergy, and Caltech alumni) was formed to help the students to finance the Y as well as establish a continued source of advice.

**1925-34**  
 Many Y programs were initiated—e.g., student counseling, room and board listing service, speakers for assemblies, organized Cosmopolitan Club (to assist foreign students), arranged faculty/student mixers, a freshman handbook (*little t*) was begun, and a student loan fund was established.



Frosh camp, 1939

**1937-41**  
 WWII was approaching, and the Y met student interests by furnishing speakers on topics such as various peace movements, government reforms, labor issues, and other moral and political questions.



Wes Hershey, 1962

**1942-46**  
 The Y filled a huge need by assisting students with their special anxieties brought on during the war years.



1953



1957



1968

**1946-76**  
 Y programs continued to grow and diversify. Informal weekly student/faculty fireside chat groups were initiated and held at the nearby home of the Executive Secretary. Luncheon clubs were encouraged. Participation with other schools in regional conferences was emphasized.

**1949**  
 The Y became incorporated and gained non-profit status.



ExComm, 1962

**TIMELINE**



Protest march, 1958



Presidential race, 1968



1970s



Martin Luther King, Jr.  
 222 South Main Street  
 Montgomery, Alabama

March 3, 1958.

My dear Mr. Hershey:

This is just a note to again express my appreciation to you and the Caltech Y.M.C.A. for making my recent visit to the campus of Caltech such a meaningful one. I will long remember the rich experience that we had on the campus. I was deeply stimulated by all of the discussions and the contact with the students.

As I said while on the airport the other night, I was quite pleased in knowing that students in scientific research were so interested in social problems. This, it seems to me, is very promising and it is certainly all important as we think of the fact that our scientific and technological progress has so far outdistanced our moral and spiritual progress.

Mr. King joins me in expressing deep gratitude for all the courtesies extended to us while we were on your campus. Please give our best regards to the many friends that we met at Caltech. I hope our paths will cross again in the not too distant future.

Sincerely yours,  
 Martin Luther King, Jr.

Mr. Wesley L. Hershey  
 Executive Secretary  
 The Caltech Y.M.C.A.  
 1201 East California St.  
 Pasadena, California.



Martin Luther King, Jr., visits the Y, 1958



Ghetto and the City Project, 1968

**1968**  
 A conference on The Ghetto and the City addressed civil rights and Black issues.



1968

**1951**  
 The Leaders of America program was established to bring renowned personalities to address and mingle with the students—e.g., Martin Luther King, Jr., Walter Reuther, and Justice William O. Douglas.

**1960s**  
 The Caltech Y relocated to the Winnett Student Center on the Caltech Campus.  
 Prior to the 60s, the Y was in several different locations including the basement of Dabney House and the residence of the Executive Secretary, Wes Hershey.

**1961**  
 The Friends of the Y was founded to assist in raising needed funds.  
**1966**  
 Addressing racial issues, the Y's China Institute attracted an unusually large attendance.

**Early 1970's**  
 The Y Board of Directors realized that all the Y students were not young, men, or Christian, therefore it voted to withdraw the Caltech organization from the National YMCA. This separation was friendly, and the various parties agreed to retain the name "Caltech Y."

**1970's**  
 The Y Decompression celebrations became a permanent feature of campus life.

**1974**  
 Paul Studenski, a student, was killed in an auto accident, and his parents established a perpetual Y memorial award in his name.



Ray Bradbury, 1970s

# TIMELINE



**1980's**  
The Y began a new service by renting event and camping equipment to students.



Alternative Spring Break, Mexico

**1982**  
Friday noon concerts and Noon Updates featuring faculty and other speakers were established.

**1990**  
The Y initiated a program of student volunteer work in the Pasadena community.



Noon concert, 1980s



Archbishop Desmond Tutu, 1990

**1997**  
The Caltech Y was temporarily relocated to MOSH House on Holliston Avenue while awaiting completion of the new Center for Student Services (formerly Keck House).

**1992**  
The Lucy Guernsey Award was founded to recognize student leadership and involvement through community service.

**1996**  
The first Alternative Spring Break program was established by a trip to the Navajo Nation.

**1998**  
A Memorandum of Understanding was executed to formalize the working relationship between Caltech and the Y.

**1999**  
The Social Activism Speaker Series was established.

**2000**  
The Caltech Y relocated to the Center for Student Services Building on the Caltech Campus. The first Make-a-Difference (MAD) Day was launched, expanding the Y's community service programs.



Make a Difference Day

To find out more about the Caltech Y's history, visit the Caltech Y's website at [www.caltechy.org/about/history](http://www.caltechy.org/about/history)



Rise tutoring program

**2001**  
Annual trips to Caltech's Centennial Grove began and were coordinated with the Alumni Association and the Gnome Club.



Centennial Grove, 1999

**2004**  
The Caltech Y moved to the "The Stables" near the Athenaeum on the Caltech Campus.

**2006**  
The tutoring program was redesigned as the Rise Program focused on intensive math and science tutoring and academic mentorship of 8th-12th graders in the Pasadena area.



CEFCU foursome, Annual Golf Tournament

**2008**  
The CEFCU began funding the ACT Award (for which students are Advocating Change Together) and the Golf Tournament and Auction, which supports Y outreach and fundraising efforts.



Centennial Kick-off

**2011**  
The Caltech Y relocated to The Tyson House on South Wilson Avenue.

**2015**  
The Patrick Hummel and Harry Gray Travel Fund was established to support undergraduate travel opportunities that promote professional and leadership development.

**2016**  
The Caltech Y celebrated its 100th birthday!

# 2015-16 Programs

## Social Programs

- ✓ **Decompression** (Fall, Winter, Spring)
- ✓ **Pre-Frosh Ice Cream Social**
- ✓ **The Pasadena Area Liberal Arts Center (PALAC) discussion** with Sean McKenna and Xiaomi Du
- ✓ **Explore LA**
  - Annie
  - Color Run
  - USC Pacific Asia Museum
  - Knotts Scary Farm
  - *Beauty and the Beast*
  - *Mamma Mia*
  - Clippers vs. Bulls
  - Los Angeles County Museum of Art
  - Pasadena Philharmonic
  - Pasadena Symphony featuring Jennifer Frautschi
  - Broad Museum
  - Hollywood Bowl
- ✓ **Lunch and Lesson in Home Cooking from:**
  - Taiwan
  - France
  - China

perspective

leadership

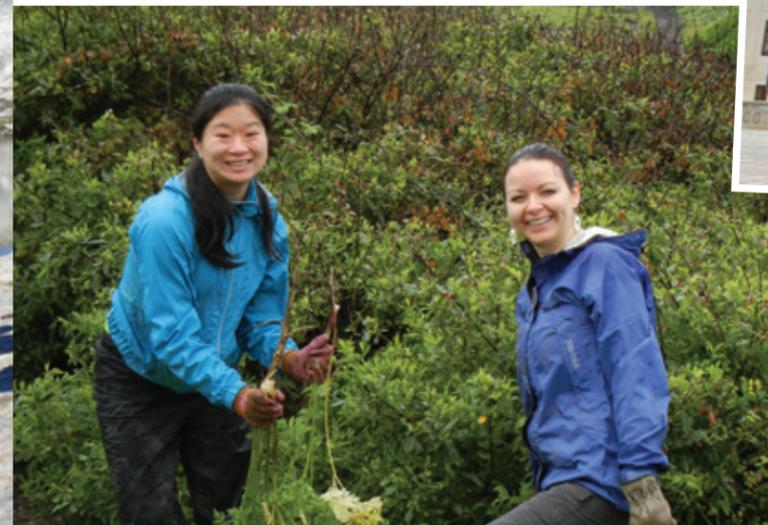
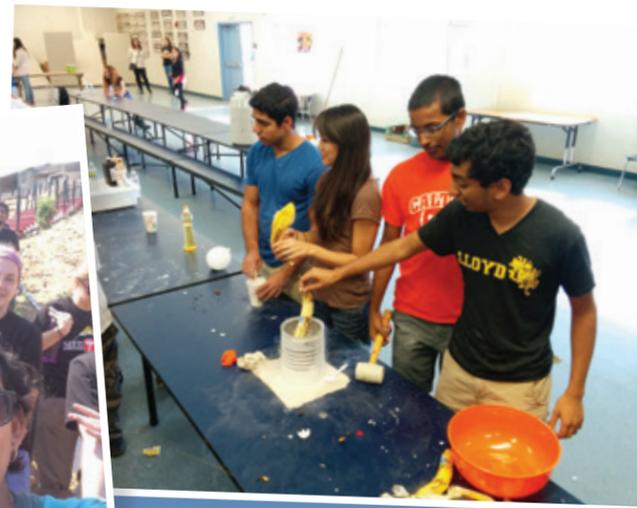
## Outdoor Adventures

- ✓ **Adventure 101**
  - Winter Sports in California
  - Wilderness First Aid
  - Hiking in the LA Area
- ✓ **Camping Trips**
  - Joshua Tree
  - Yosemite Winter Camping
  - Yosemite/Centennial Grove
- ✓ **Backpacking Trips**
  - Annual Y Hike to Sierras
  - Cottonwood Lakes
- ✓ **Day Hikes**
  - Henninger Flats
  - Strawberry Peak
  - Iron Mountain
  - Mt. Islip
  - Smith Mountain
- ✓ **Alternative Spring Break:** Grand Canyon
- ✓ **Other:** Undergraduate Orientation Kayaking Trip
  - Mt. Piños Snowshoe Hike

adventure

## Community Service

- ✓ **Community Service & Advocacy Fair**
- ✓ **Make-A-Difference Day**
- ✓ **Undergraduate Orientation Service Trip**
- ✓ **LA River Clean Up**
- ✓ **Hillsides Home for Abused Children**
- ✓ **Alternative Spring Break**
  - Catalina Research Institute
  - Peru with Medlife Organization
- ✓ **On-going Community Service Opportunities**
  - Union Station – Adult & Family Shelters (twice-a-month)
  - Hathaway Sycamores (once-a-week)
  - Kids Reading To Succeed (once-a-month)
  - Pasadena LEARNs (once-a-week October–May)
  - Rise Tutoring Program (4 days/week September–May)



## Cultural & Educational Programs

- ✓ **India Ki Khoj International Trip** (co-sponsored with Student Faculty Programs & Indian Institute of Technology, Gandhinagar)
- ✓ **World Fest** (co-sponsored with Caltech International Offices)
  - Coffee Culture
  - Born On a Kibbutz
  - International Food Fair
  - Beyond Cinco de Mayo: A Journey Through Mexico's Rich Cultural Heritage
  - Exploring Modern Day South Africa: Social Inequality and Consequences
- ✓ **Science Policy Series**
  - Lessons Learned from the Fukushima Nuclear Accident for Improving the Safety of US Nuclear Plants: A Discussion with Prof. Joseph E. Shepherd
  - Congressman Seth Moulton: A Conversation
  - Drought, Water Sources, and Associated Issues Confronting Southern California with Prof. John Hall
  - Lobbying for Science: A Conversation with Michael Ledford
- ✓ **Social Activism Speaker Series**
  - The Supreme Court and the 2016 Elections with Prof. Morgan Kousser
  - A Perspective on Women in Science with Prof. Nai-Chang Yeh
  - Civil Rights, Civic Equality, and Religious Liberty with David Cruz
  - Profits in the Final Frontier Panel Discussion on Entrepreneurial Pursuits in Space with Robert P. Hoyt, Michael Rubel, Chris Lewicki and Prof. Sergio Pellegrino
  - Science, Technology, and Innovation for Achieving the United Nations Sustainable Development Goals with Dr. William Colglazier
  - Pathways through Politics and Power on the National and International Stage with Michael Nelson and Kathleen Doherty
  - The Politics of Genetic Engineering with Dr. David Baltimore
  - Social Justice and Education Inequality Discussion with Miles Corwin



service

- ✓ **ACT (Advocating Change Together)**
  - Food and Shopping for a Sustainable World
  - Sustainable Living Series: Chemicals and Cosmetics – Finding Greener Alternatives
- ✓ **Science Policy Trip to Washington, DC**
  - DC Science Policy Symposium with Dr. France Córdova and Dr. Ellen Williams (co-sponsored with the Caltech Alumni Association)
- ✓ **Martin Luther King, Jr. Commemoration Week** (co-sponsored with Caltech Center for Diversity)
  - Keynote Luncheon: Keys to the Kingdom with Dr. Anthony Asadullah Samad
  - Diversity, Education, Policy, and Equity: A Conversation with Dr. Shirley Malcom
  - Service Project: A Day On Not Off



civic engagement



Alternative Spring Break: Grand Canyon

# 100 Years of Student Leaders

Started by students for students, Caltech Y programs continue to be student-led. Below, we celebrate 100 years of student leaders beginning with the founding members of what was then known as the Throop College Y.M.C.A. all the way to current members of the student Executive Committee (ExComm), the Outdoors Committee, and the Social Activism Speaker Series (SASS) Committee. Thank you to the many student leaders over the years who have enriched student life through your dedication and service!

## 1916-1919

O. L. Armstrong  
 Clark E. Baker  
 Joseph Beattie  
 Corliss Bercaw  
 Clarence Burmister  
 Donald Burmister  
 Max Carson  
 Bernard Chamberlain  
 Harvey W. House  
 Iver Lawson, Jr.  
 Lynn Luttle  
 Howard Mason  
 Harry Meyer  
 Ezra Mosher  
 Thomas Myers  
 Norman Prosser  
 Roy T. Richards  
 Paul Scherer  
 Joe Wachtell  
 Wallace Weldon

## 1920s

Horace Allen  
 William Aultman  
 Larribee Bangham  
 Virgil Best  
 Fred Bewley  
 James Robert Black, Jr.  
 Loren Blakeley  
 Charles Bradley  
 Albert Byler  
 Lawrence Chandler  
 Theodore Coleman  
 Theodore Combs  
 George L. Cory  
 LeRoy Dixon  
 Sydney Duncan  
 Emory Ellis  
 Harry Farrar  
 Elmer Fisher  
 Edward Forgy  
 Beverly Fredendall  
 Harold Gandy  
 Karl Gannse  
 Gunner Gramatky  
 Loys Griswold  
 Fred Groat  
 Richard Hambrook  
 Claude Hayward  
 Dean Hinrichs  
 William Holladay

Abraham Lincoln  
 Hollinger, Jr.  
 Horton Honsaker  
 Harvey House  
 Robert Hull  
 H.V. Ingersoll  
 Frank Jackson  
 Donald Johnson  
 Maurice Jones  
 Fritz Karge  
 Douglas Keech  
 Louis Korn  
 George Kuffel  
 Richard Lief  
 Mason Logan  
 Donald MacFarlane  
 Glenwood MacLane  
 Joseph Maier  
 Clifford Maltby  
 Trueman McCren  
 John Michelmore  
 Roy Miller  
 Don Milliken  
 Harold Musselman  
 Paul Noll  
 Russel Otis  
 Robert Ridgeway  
 Kenneth Robinson  
 J. Stanley Robson  
 Edward Saever  
 Markham Salsbury  
 Charles Schwieso  
 David Shuster  
 Donald D. Smith  
 Charles Stearns  
 Andrew Stewart  
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To date, we have reached 86% of our goal. If you wish to contribute to the endowment or help us reach our goal, please contact Agnes Tong, Director of Marketing and Development, or Athena Castro, Executive Director.

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The Caltech Y would like to express our gratitude to the following campus groups, foundations, companies and community groups for their contributions to, and sponsorships of, Y programs and events. Your support makes a world of difference!

### Corporate and Foundation Support

Caltech Employees Federal Credit Union  
 Pasadena Tournament of Roses Foundation  
 Rose Hills Foundation

### Caltech Departments and Campus Groups

Alumni Fund and Parents Program Office  
 Associated Students of the California Institute of Technology (ASCIT)  
 Athletics  
 Athenaeum  
 Alumni Association  
 Caltech Center for Diversity (CCD)  
 Caltech Employees Federal Credit Union  
 Caltech International Offices  
 Caltech Management Association (CMA)  
 Caltech Wired/Bookstore  
 Caltech Women's Club (CWC)  
 Center for Teaching, Learning and Outreach (CTLQ)  
 Development and Institute Relations  
 Dining Services  
 Division of Student Affairs  
 Gnome Club  
 Graduate Dean's Office  
 Graduate Student Council (GSC)  
 Graphics Resources & Mail Services and Services  
 Jet Propulsion Laboratory  
 Keck Institute for Space Studies (KISS)  
 Master of Student Houses  
 Moore-Hufstler Fund  
 Parking Office  
 President's Office  
 Procurement Services  
 Science and Engineering Policy at Caltech (SEPAC)  
 Student Faculty Programs Office  
 Undergraduate Dean's Office

The Caltech Y would like to thank the following campus groups, foundations, companies, and community groups for their contributions to, and sponsorships of, the Caltech Y 2015 Annual Golf Tournament and Auction.

### Main Sponsors

Caltech Employees Federal Credit Union  
 EMCOR Services/Mesa Energy Systems  
 Bloom Energy

### Individual Sponsors

Chuck and Mary Kaye Adams  
 Jim and Janet Black  
 James and Suzanne Crisp  
 Barbara Gee  
 Lee Fisher and Susan Murakami  
 Michael B. Noll  
 Toni Perpall  
 Jim Workman

### Corporate Sponsors

Hilton Pasadena  
 Enterprise Holdings  
 Noble America Energy Solutions  
 PCL Construction  
 PPC Mechanical Contractors  
 Produce Services of Los Angeles  
 Sysco  
 Pasadena Highlands  
 La Cañada Eye Care  
 Rational USA  
 Jane Caughey and Cynthia Luczyski  
 Association Management Services  
 Chef's Toys  
 Graybar  
 Key Impact  
 The Paper Company  
 Utility Refrigerator  
 James Angelos  
 Kaspick & Company  
 Pasadena Highlands

### Individual Support

Richard Beatty  
 Don Brown  
 John and Joy Caldwell (Caldwell Winery)  
 Charles and Valerie Elachi  
 Pam Hemann  
 Nancy Lan  
 Tom Mannion  
 Peter and Doreen Mason  
 Doug and Debbie Smith  
 Ed Stone  
 Charles Vorsanger  
 Dave Zobel

### Community Support

110 & Bellevue at Whole Foods  
 Aquarium of the Pacific  
 Arthur Murray Dance Centers  
 The Athenaeum  
 Avanti Italian Bistro & Bar  
 Bodega Wine Bar  
 Bristol Farms  
 Caltech Parking Services  
 Caltech Public Events  
 Caltech Y Board  
 The Cheesecake Factory  
 DryBar  
 El Portal Restaurant  
 FORE Fitness  
 Green Street Restaurant  
 The House of An  
 The Huntington Gardens  
 John Wells Golf Shop  
 Julienne Fine Foods  
 Kidspace Children's Museum  
 Laemmle Theatre  
 The Langham Huntington, Pasadena  
 Los Angeles County Museum  
 Matt Denny's Ale House Restaurant  
 Oakley, Inc.  
 Office Depot  
 The Pasadena Playhouse  
 Pasadena Symphony & POPS  
 Real Food Daily  
 Rose Bowl Aquatics Center  
 Santa Anita Park  
 The Spot Gourmet  
 UCLA Department of Athletics  
 Urth Caffé  
 USC Pacific Asia Museum  
 Ventura Beach Marriott  
 The Warehouse Restaurant  
 Wundabar Pilates

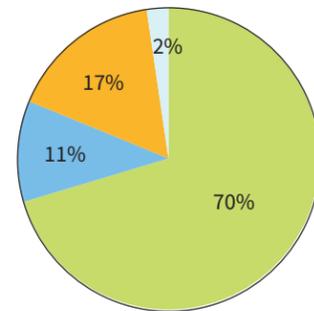


## CALTECH Y BALANCE SHEET as of 9/30/16

Assets		Liabilities and Fund Balances	
Cash (\$43,403 restricted for endowment)	\$ 168,872	Liabilities	
Prepaid Expenses	3,140	Accounts Payable	\$ 10,577
Fixed Assets, net	31,351	CIT Account Payable	111,798
Endowment Fund Investments, at fair market value	2,784,288	Deferred Revenue	7,075
<b>Total Assets</b>	<b>\$ 2,987,651</b>	Total Liabilities	129,450
		Fund Balances	
		Operating Fund	30,510
		General Endowment Fund	1,117,435
		Caltech Y Centennial Endowment Fund	719,767
		Ingrid Gumpel Memorial Endowment Fund	128,047
		Wes Hershey Memorial Endowment Fund	105,460
		J. Stanley and Mary Johnson Endowment Fund	100,732
		George Housner Endowment Fund	151,678
		Naecker Family Endowment Fund	113,022
		Beschorman Endowment Fund	95,676
		Patrick Hummel & Harry Gray Endowment Fund	69,582
		Kirk & Marjory Dawson Endowment Fund	49,027
		Paul & Heather Haaga Endowment Fund	19,604
		Paul Studenski Memorial Endowment Fund	157,661
		Total Fund Balance	2,858,201
		<b>Total Liabilities &amp; Fund Balances</b>	<b>\$ 2,987,651</b>

The Institute holds income beneficiary funds, for the benefit of the Caltech Y, with valuation and annual income of approximately \$1,510,000 and \$77,000 respectively.

## REVENUE & EXPENSES year ending 9/30/16



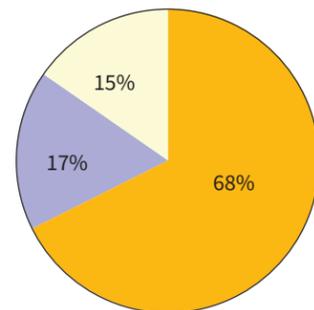
Revenue and Support

### Revenue and Support

Contributions and Grants *	\$ 792,548
Endowment Income	121,657
Program Service Revenue	185,756
Special Events, net	26,220

**Total Revenue and Support** \$ 1,126,181

\* includes donations restricted for the endowment totaling \$520,998



Expenses

### Expenses

Program Activities	\$ 458,721
Management and General	115,465
Development	104,311

**Total Expenses** 678,497

**Excess Revenue over Expenses** \$ 447,684

# Giving to the Caltech Y

When you make a gift to the Caltech Y, you can choose how the funds will be used as you consider many options for making your donation. Unrestricted Gifts allow the Caltech Y to allocate funds wherever the need is greatest, which means your gift may be used across the entire spectrum of Caltech Y annual programs. Directed Gifts allow you to choose the Caltech Y area of interest that most suits your intention. All donations are tax deductible.

Here are options to consider when making your Unrestricted or Directed Gift:

**The Caltech Y Centennial Endowment:** A strong financial base is the guarantee that the next generations of students will gain the Caltech Y advantage. Consider adding to an existing fund or establish a new named fund. Whatever method you choose, giving to the endowment fund creates a permanent legacy of support for the Caltech Y for the next 100 years.

**Charitable Gifts from IRAs:** You can rollover your IRA to the Caltech Y and exclude the entire amount of that gift from your taxable income (certain limits apply). You can also create a charitable remainder trust as the beneficiary of your IRA, so that your heirs receive income from the trust, and the Caltech Y receives any principal remaining.

**Cash Gifts,** made directly to the Caltech Y, are easy. A minimum gift of \$200 per person or \$400 per couple qualifies you as a Friend of the Caltech Y for that year.

**Gifts of Real Estate** such as a second property, vacant land, or income generating property, can provide a much needed boost to the Caltech Y endowment and provide you with an enormous tax savings. By making a gift of property, donors avoid the capital-gains tax and simultaneously receive a charitable deduction for the full fair-market value of the asset.

**United Way Pledges:** You can contribute indirectly through the United Way throughout the entire year. If you are a Caltech employee, please designate the Caltech Y to receive a 100% Institute match. Other companies offer United Way matching as well. Please inquire at your workplace.

**Matching Gifts:** Many companies offer matching gift benefits to their employees, doubling the value of their charitable contributions. Check with your company's human resources or benefits office to see if your employer has a corporate matching gift program. Your support will go twice as far!

**Gifts of appreciated securities, stocks, and bonds** can provide a considerable tax advantage if transferred to the Caltech Y before they are sold.

**Planned Gifts** include bequests, life-income plans and other blended gift options. Your estate gift is an effective and tax-efficient way to make an enduring legacy gift to the Caltech Y.

The Caltech Y can help you with the many giving options.

For more information, please contact Agnes Tong, Director of Marketing and Development, at (626) 395-6163.



 Caltech Y *...making a world of difference*

[www.caltechY.org](http://www.caltechY.org) or find us on Facebook and Instagram

