California water crisis induces cutbacks and paradigm shifts

LORI DJAOSE
Contributing Writer

“California is no longer simply experiencing a severe period of drought. It is undergoing a permanent change in climate.”

California Gov. Jerry Brown issued an unprecedented executive order last week mandating the reduction of water usage across 400 local water supply agencies. Each agency must come up with and enforce restrictions on consumers and businesses to reduce water usage by 25%. California is now in its fourth consecutive year of drought, with this past winter yielding record low snowfall. The Sierra Nevada snowpack is one of the major sources of water for Southern California, but this year it is only 6% of its normal volume.

Climate models suggest that in the coming years precipitation will fall more as rain and less as snow. The current system of dams and reservoirs may not be able to handle this – a gradual snowmelt over time is much easier to control than sudden deluges. Ironically, the warmer climate and the drought could thus cause large floods. Geologists and engineers are brainstorming new systems to manage storage and prevent widespread damages in this event.

Brown’s actions last week signal the beginning of an overhaul in the control and consumption of water. They also mark an important paradigm shift: California is no longer simply ex-

(Lori DaJose)

periencing a severe period of drought. It is undergoing a permanent change in climate.

Project Scientist, Caltech bring STEM education to Pasadena girls

NEHALY SHAH
Editor-in-Chief

Project Scientist Academy, a five-week summer camp, offers science, technology, engineering, and math (STEM) learning opportunities for girls of ages four to 14. The program, originally established in North Carolina, will come to Southern California this summer from June 8 to July 24 at the Caltech and Longfellow Elementary School campuses.

Founder Sandy Marshall was inspired to start Project Scientist by her own daughter. “She was a curious four-year-old that loved science; my husband and I worked fulltime and needed a summer option that fit her interests and academic needs as well as our schedules. At the same time, as executive director and founder of The NASA Foundation, I had access to the latest … research around girls in STEM and experts at the table to vet my ideas around Project Scientist,” said Marshall. By 2012, Marshall launched the first session of Project Scientist out of her guesthouse as an LLC with two teachers, six students (of ages four to six), and six female STEM professionals. “I built every second around what research has proven to drive and maintain girls’ interests in STEM,” said Marshall.

Project Scientist has since grown: in 2013, it became a public 501(c)(3) nonprofit and landed its first university contract in Charlotte, North Carolina, where it served 95 girls in a six-week program. In the summer of 2014, Project Scientist served nearly 500 girls. Most recently, in the fall of 2014, “we piloted our afterschool and teacher workday program, so that we could have touch points with the girls we serve year-round, while inspiring other girls to reach for their STEM dreams,” said Marshall.

Last year Marshall reached out to Spiros Michalakis, who is the manager of outreach activities for the Institute for Quantum Information and Matter (IQIM) at Caltech. As such, he is also the club adviser for InnoWorks Academy, another Caltech summer program that will be on campus from June 15 to 19, the week in June that Project Scientist will be in hiatus so that girls who want to participate in both programs can do so. After Michalakis and Marshall met, Michalakis was invited to North Carolina to observe Project Scientist in action for one week. “I was so impressed by the quality of the program that I decided to talk to Mitch Aiken to bring the program on campus the next summer,” said Michalakis. Aiken is the associate director for educational outreach in the provost's academic program at Caltech.

“[Michalakis'] enthusiasm for the program inspired me to figure out a way to help bring this program to our local K-12 students. Broadening the STEM pipeline to include more girls is a key goal for us in Caltech’s Center for Teaching, Learning, & Outreach,” said Aiken. “As we explored working with Project Scientist, I felt that teaming up with a local elementary school would be a great way to strengthen the community connection.” Thus Project Scientist will be on Caltech and Longfellow Elementary School campuses in Pasadena as well as three university campuses in Charlotte this summer. Project Scientist also runs a year-round club at public and private elementary schools in both markets.

This summer Project Scientist will have concept goals for each age group. “This will be a joint effort of the entire Project Scientist staff and parents to ensure their girls grasp these concepts that align with Common Core and Next Gen Science Standards,” said Marshall. Each week of the summer session has a theme, chosen through a variety of ways. “For example, we

Continued on page 2
The Caltech Y Column serves to inform students of upcoming events and volunteer opportunities. The list is compiled by Neera Shah from information given by the Caltech Y and its student leaders.

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

Upcoming Events

1. Science Policy Lunch Series with Professor David Goodstein
   Tuesday | April 17th | 12:000 - 1:30 PM | Location TBA
   RSVP Here: http://goo.gl/forms/iUbzXrEoxG
   The Caltech Y Social Activism Speaker Series on scientific reproducibility will conclude with a lunch discussion about scientific fraud. Professor David Goodstein is a Professor of Physics and Applied Mathematics, and a Professor of Biology.

2. Science Policy Lunch Series with Professor Isabella Kapelovitch
   Tuesday | April 17th | 12:000 - 1:30 PM | Location TBA
   RSVP Here: http://goo.gl/forms/iUbzXrEoxG
   Professor Isabella Kapelovitch is a Professor of Political Science and a Research Associate Professor of Economics. The Caltech Y Social Activism Speaker Series on scientific reproducibility will conclude with a lunch discussion about scientific fraud. Professor David Goodstein is a Professor of Physics and Applied Mathematics, and a Professor of Biology.

3. The Studivenk Award
   Proposals Due: Friday, April 17th no later than noon
   Are you wondering about the next step in your life? Have you reached a crossroad where you would benefit from an opportunity to explore? Would a trip, an opportunity to volunteer with an organization, or a chance to try a new skill or interest this summer help you gain clarity? If you answered yes to any of these questions, then the Studivenk Award might be for you.

   The Studivenk Memorial Award is granted in memory of Paul Studivenk, Caltech student who was killed in an automobile accident while traveling across the United States in 1974. It is awarded to a Caltech undergraduate or graduate student, having reached a crossroad in life, who would benefit from a period away from the academic community to obtain a better understanding of self and to gain more possible directions for the future.

   Studivenk proposals (1 to 2 pages maximum) are due Friday, April 17th no later than noon to the Studivenk Award Application Coordinator at Studivenk@caltech.edu (in word format). For more information, contact Studivenk Award Coordinator, Studivenk@caltech.edu or Greg Fletcher gregf@caltech.edu or join us for dinner:

   Studivenk Informational Dinner Monday, April 6th - 5:30 PM
   Hosted by Tom Mannion at his house
   RSVP by April 2nd to http://tinyurl.com/studivenk
   More information and the application can be found at http://caltechy.org/programs_services/areas/Studivenk/index.php.

4. Caltech Y ACT Award
   Application: Now Open
   How will you spend your spring break? Tackle homelessness, capital punishment, HIV/AIDS, immigration, poverty, or something you challenge you choose - it's your opportunity to ACT! The Caltech Y ACT Award, made possible through the generosity of a group of Caltech parents, professors, and others, will provide an opportunity for any Caltech student to pursue an interest in community service and leadership.

   Partner with an organization that is changing the world. Explore real world issues in our local community, across the nation, or around the globe - and make a difference in the world. The $4500 Caltech Y ACT Award offers students an opportunity to explore an issue, engage in a cause, and lead a campaign to educate and engage others at Caltech. Caltech Y activists determine the cause they will address, the organization with whom they will partner, and the type of campaign they will lead on campus. The Caltech Y ACT Award helps Caltech Students expand their understanding of the world, unlearning them to change the world for the better as active citizens.

   Applications are due by Friday, April 17th at noon. Stop by the Caltech Y during our office hours to learn more about this exciting opportunity, contact us to ask questions or set up a separate time to meet.

   More information and the application can be found at http://www.caltechy.org/programs_services/areas/commservice/ACT/index.php.

5. Pasadena LEARNS
   Friday | 3:300 - 5:00pm Madison and Jackson Elementary School | Pasadena
   Pasadena LEARNS is a partnership between Caltech and Pasadena Unified School District (PUSD) and is funded by the National Science Foundation (NSF). The program aims to provide opportunities for Caltech and PUSD students to engage in science and technology activities.

   Sign up for Pasadena LEARNS here: http://summercamp.caltech.edu

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7. 5b. Hathaway Sycamores
   Monday | 5:30-8:00pm Highland Park Sycamores, a group that supports local underprivileged girls, is recruiting students to participate in its summer programs. The Sycamores, which were founded in 1974, are a non-profit organization that provides educational and social opportunities for girls aged 12-17. The program is open to girls of all socio-economic backgrounds and aims to provide a safe and supportive environment for girls to learn, grow, and thrive.

   The Sycamores have a long history of working with girls from low-income families to provide them with educational and social opportunities. They offer a variety of programs and activities, including tutoring, mentoring, and workshops on topics such as self-esteem, goal setting, and goal achievement.

   To get involved with the Sycamores, interested students should contact the program coordinator by email, Sycamores@caltech.edu or visit the Sycamores website at sycamores.caltech.edu.

   More information about the program can be found at: http://sycamores.caltech.edu

   The Sycamores are open to students of all backgrounds and are committed to providing a supportive and inclusive environment for all girls.

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The most thrilling situation I could hope to see is a presidential vote No. Winning the Stanley Cup? Nah. Calling a presidential election for a national news network? Well that certainly gets me all amirite, and the obvious first step on the path to becoming a beloved national political reporter is to write about politics for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.” Perhaps the most famous instance of their mayhem, however, is The Powers That B itself, a double album: the second disc is titled Jenny Death when “meme resulting from rabid fans having to wait nine months between the first disc’s release and the second. It has finally been released, we no longer have to be concerned about whether The Powers That B is a disappointing final album for Death Grips, but is it still a satisfying entry for the twisted games they play with their fans, like announcing their break-up only to go on a tour and say that they “might make some more.”
Kshitij talks college students and convenient email etiquette

People love to make the case that email is dying. I’ve heard again and again that it’s a poor form of communication, makes no sense in a connected world—even that it’s an epidemic.

Look, things like Slack are great. Just don’t expect me, as a college student, to stop using email anytime soon: It’s about midday and I’ve opened, read, and replied to 30 emails today. At a glance, that may not seem like much. But remember—that doesn’t count all the notifications that I need (but immediately archive). That doesn’t count purely informational newsletters (like Medium Top Stories) or email-only archive. That doesn’t count purely informational newsletters (like Medium Top Stories) or email-based alerts that no one replies to. It’s only email that I’ve read and replied to. The total number of conversations exceeds 120.

Lots of Email. Lots of Time.

As someone in college, your time is worth a whole lot more than it has ever been in the past. That’s why you should care. Either you’re being efficient with your email, you’re ignoring a whole lot of stuff you could be handling well, or you’re straight up wasting time.

The email experience boils down to two basic things: consumption and composition.

Consumption

First and foremost, you’re going to suck at replying to messages if you can’t effectively parse your inbox. Personally, I use inbox on mobile and Mailbox on Mac (Inbox does have a web app, but it’s bloated and certainly doesn’t feel native). Either way, you need to:

• Use Archive well. As soon as a conversation gets resolved, swipe right (no—not that kind of swipe). Archive the thread, and clear it from your inbox. Having 10,000 read things in your inbox doesn’t do you any good. Don’t worry—just because it’s not in your inbox doesn’t mean it’s gone. Keep your attention to active conversations. I rarely have more than 20 threads in my inbox at a time—the fewer you see when you open your app, the better.
• Search efficiently. This one’s really easy, and it ties into the last one. It’s not in your inbox, but you should never scroll through irrelevant messages to find what you want. Most email apps have incredibly good search algorithms. Offload all your efforts. That’s your main goal with every aspect of email.

Composition

I compose about 45% of my emails on mobile, and I’m able to do that because of my general philosophy regarding emails—whether it’s another student, a professor, someone in industry, or anyone else. It’s nothing special, but it is important.

Let’s look at a type of email that sucks or not, it’s important that email is dying. I’ve heard again and again that it’s a poor form of communication, makes no sense in a connected world—even that it’s an epidemic.

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Let’s look at a type of email I would hate to receive:

Hello Professor,

Hope you’re having a cordial day. I thoroughly enjoyed your class this morning, and I’ve been arduously working on the homework assignment. I have enclosed a rough draft of Set 4, and I would be grateful if you could review it.

Thanks for considering my request. Let me know if you need anything else from me. Have a nice evening, and see you in class tomorrow.

Best Regards,

Ok, so it’s a bit artificial. But this really is something people do. There are a few things to keep in mind to avoid this:

• Cut the [fluff]. Don’t fluff your email like you fluff your essays. Honestly, there’s no better way to say that. Formality doesn’t help anyone—you take more time, and people have more to parse (and they even could feel the obligation to return it).
• Keep it short—tell the recipient what you want. Pretty much all the email you’re going to be sending is a request. They’re doing you a favor, and you should value their time—trust me, being ‘nice’ has nothing to do with being formal. Keep it to the point, and show that you care about the other things they have to do. That’s nice.
• Emails aren’t to impress. Don’t use random big words—clarity is first and foremost.

Rephrased:

Hello Professor,

Hope you’re well. Set 4 is attached; let me know if I need to revise anything.

Have a good weekend!

Best,

It’s not trite to the point of rudeness. That’s the key—keeping it short without making it sound standoffish. Don’t be afraid of short emails:

Cool, makes sense—thanks!

Slightly longer:

Hey Alex,

Are you free for coffee? Let’s catch up next week. Been working on my thesis, and I’ve made some progress on research.

How does Monday look for you?

Best,

Bob

Note that if you’re making a specific request, you need to suggest a specific action item (e.g., when you want to meet).

Whether you think email sucks or not, it’s important enough that you can’t afford to suck at it, especially if you’re in college.
Sometimes I wish I could remember the moments when these pictures could have been taken, but sadly all of my memories of Soumya Kannan beasting it up in the pool are fleeting... mostly because I’m drowning the whole time.

- http://gocaltech.com

### Enlow scores goal because she’s so cool

**GOCALTECH.COM**

**Actual Sports Content Editor**

PASADENA, Calif. (Mar. 28, 2015) – Junior Soumya Kannan (Palo Alto, Calif. / Henry M Gunn) netted her seventh brace of the season as the Caltech women’s water polo team hosted the University of Redlands in a SCIAC matchup on Saturday morning. The Bulldogs got out to an early lead and distanced themselves late in the second quarter to post a 14-3 victory. Redlands improves to 3-21 overall and 1-2 in the SCIAC while Caltech is now 0-12 (0-2).

Redlands scored the first three goals of the contest before Kannan struck at the 1:09 mark in the first quarter on an extraman opportunity. The Bulldogs netted the opener in the second quarter but senior Monica Enlow (Suwanee, Ga. / North Gwinnett) answered with her fourth of the season to pull the margin back to two at 4-2. Redlands would net four more late in the quarter to lead 8-2 at halftime and increased it to 10-2 before Kannan completed her brace with just 37 seconds remaining in the third quarter. The Bulldogs struck for four more in a shutout fourth quarter to put the game out of reach.

Everybody get up; it’s time for Sophia Chen to slam now.

- http://gocaltech.com

### Singles perform well

**GOCALTECH.COM**

**Actual Sports Content Editor**

CLAREMONT, Calif. (Apr. 3, 2015) – Sophomore Sophia Chen (Newport Beach, Calif. / Corona Del Mar) and freshman Rachel Morton (Oxford, Ohio / Talawanda) won at #2 and #5 singles, respectively, as the Caltech women’s tennis team battled the No. 26 University of La Verne at the Claremont Club on Friday afternoon.

The Leopards posted a 7-2 victory to improve to 9-4 overall and 3-1 in the SCIAC, while the Beavers are now 5-8 (0-5).

La Verne swept doubles, including a pair of 8-0 wins at courts #1 and #3 while freshmen Vinci Chen (Austin, Texas / Westwood) and Grace Yao (La Palma, Calif. / Oxford Acad.) notched a pair of games for Caltech at #2. The Leopards clinched the match shortly after singles play commenced as the No. 11-ranked player in the West region, Laina Matsuda, did not drop a game at #1 and Areli Martinez closed out #6 quick, 6-1, 6-0.

The Leopards also won #3 and #4 singles in straight sets, but the Beavers left on a high note with victories in the final two matches. Both Chen and Morton won their first set by identical 6-4 scores, and Morton dominated the second, 6-1, to earn the Beavers’ first point. Chen had some more work to do after dropping her second set, 6-3, but responded emphatically with a 10-3 superbreaker.

When in doubt, just creep on the men’s tennis page to find really cool pictures of Morgan Lebby giving gravity-defying performances on the court.

- http://gocaltech.com
ASCIT Minutes

ASCIT Board of Directors Meeting
Minutes for 31 March 2015. Taken by Sean McKenna.

Officers Present: Catherine Jamshidi, Conner Rosen, Patrick Nikong, Annie Chen, Sean McKenna

Guests: Chris Dosen, Elliott Simon, Nikita Sirohi, Anne Dorsey, Bianca Lepe, Margaret Lee

Call to Order: 12:05 pm

President’s Report (Connor):
• Working to finalize rewording of BOC amendment which didn’t pass. We will be hosting a town hall to talk about reason for the change. Goal is make sure people know what’s going on and have the opportunity to ask questions.
• 12 term tuition policy survey will be sent out. Especially be sure to respond to it if you have been affected by the mandate to pay for 12 terms of tuition.
• UASH has been receiving more ineligibilities. We will make an effort to communicate the requirements more clearly.
• Leadership series is being hosted by Tom Mannon this spring.

Officer’s Reports:
• V.P. of Academic Affairs (ARC Chair: Nima):
  o CUE/Vice Provost/Nima met and took over the homework due times issue. Goal is to make freshman core problem sets due between midnight and 2am for the next academic year.
  o Looking into what ARC can do to get professors to submit grades on time in order to prevent them from turning in late grades which can make students ineligible.
  o Working on teaching scheduling times.
  o Sending out a library survey about closed times.

• V.P. of Non-Academic Affairs (IHC Chair: Cat):
  o Preparing for prefrosh weekend and meeting with the President. Goals for the year: improving diversity on campus, improving interhouse relations.
  o Holding interviews for Secretary this weekend.
  o Meeting with the SURF office to talk about summer ambassadors.
  o New Presidents and House Picks Officers are meeting with Housing to discuss the timeline for fall room picks.

• Interim Director of Operations (Sean):
  o ASCIT Food for Prefrosh Weekend is happening Thursday night at midnight.

• Treasurer (Patrick):
  o Caltech Paddling Club applied for event funding.

• Social Director (Annie):
  o ASCIT Formal will happen this weekend. People who are 21 or over get 3 free drink tickets.
  o ASCIT movie night is Avengers on May 1st.

• Secretary (Sean):
  o BOD meet and greet on Saturday 11 April to meet current position holders in advance of upcoming elections.

If anyone has any questions or concerns about a section of the minutes please email the appropriate officer. We are happy to answer any questions. The next meeting will take place on April 7th at Noon in the Winnett Common Space.

Meeting Adjourned: 12:42 pm
Maintaining good relationships between coworkers is an important soft skill in business.

-Brad/Chad

Death Grips releases new, dynamic album

Continued from page 3

still able to produce entertaining music is that compositionally this is almost a return to its pre-Government Plates style. Ride’s verses have never been particularly easy to understand, but on Government Plates and the first half of The Powers That B they became downright obfuscated, and I feel as though the extra effort required to even begin to interpret it detracts from what is otherwise such a visceral experience. Jenny Death’s lyrics, on the other hand, don’t lay out everything they’re trying to say with a sort of sickening simplicity, from ‘Break Mirrors With My Face In The United States” and the manic chanting of its title to the disconnecting “Pa Pa” and its flagrant disrespect for other humans with lines like “I’m the only thing ever on my mind / You’re one of those things I never rewired.” There is hardly a moment on this part of the album in which MC Ride doesn’t express hatred toward someone else or himself, the latter of which is particularly prevalent thanks to numerous mentions of suicide. This feels like the death throes of Death Grips, letting out a torrent of their most animalistic creative projects that, like anything disturbing, is impossible not to bask in vicariously.

Together, the two form an album that is otherwise such a sprawling work of dynamic, thought-provoking art. Though the album has its flaws, it manages to draw from across Death Grips’ discography and move into new territory at the same time. Opinions on the album’s first half will likely depend on which Death Grips album is your favorite, but I think Jenny Death (miraculously) beat the hype, and will be remembered as one of the group’s best works. Together, the two form an album which is a poor introduction for first-time listeners, but by all means deserves to be considered among its peers.
**Housetalia**

Hey, Ruddock, how do you do #3, with the vectors?

It's simple. According to Theorem P.F in Bulletin*, we infer that the curl is 0. From there...

Guy's, we can't use the pass/fail theorem anymore. Remember?

Smile to hide the pain...

"They grow up so fast"

**Acquired Taste**

As a graduating senior, I went to "shape what I’ve learned with the next generation of comic writers" (maybe even yours).

Shower is everything! The same words can mean different things if you switch in the group. Be it this just right and it might end up funny (specifically not though).

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**Pif-Wait...**

Answers to previous crossword

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Answers to previous Sudoku

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