



Lawrence Lee, Nasser Khalifa Al-Rayes, and Jake Larson share a touching moment at Frosh Camp. They did so while also paying dutiful attention to the BoC talk.

-Jonathan Schor

## Some new prefrosh class arrives at Caltech

**STANFORD SCHOR**  
Editor-in-Chief

By now, upperclassmen have had a few days of Rotation to become acquainted with the wide-

eyed Class of 2017. The class of 249 new students include a glass blower, breakdancers, calculator programmers, speed cubers, beat boxers, a magician, and at least one student who owns a full body suit.

They arrived on September 22nd via airport shuttles and cars, and were soon ushered into Beckman Auditorium for convocation ceremonies. Interim president

and professor Edward Stolper welcomed the new students and their parents before giving the floor to Professor Viviana Gradinaru, a Caltech alumnus and recently appointed Professor of Biology and Biological Engineering. Professor Gradinaru discussed her research in optogenetics, peppering her talk with quotes from Ron Padgett's "How to be Perfect." She left the Class of 2017 with a message of sustainability and encouraged

students to achieve balance of both body and mind.

Following Convocation, students joined their Frosh Camp Counselors (FCCs, formerly UCCs) at the President's house for an introductory dinner and a chance to mingle with the Caltech administration. The following day, they piled color-coded buses and headed off to Ventura Beach for Frosh Camp. *The Tech* was once again invited to tag along to share

in the fun and excitement of Frosh Camp. Through scavenger hunts, an Honor Code talk given by the Board of Control, skits addressing life at Caltech in the Challenges and Choices session, and even mealtimes, we have faithfully attempted to document the prefrosh experience. Approximately 600 pictures were taken of the prefrosh festivities, and those that best represent the spirit of orientation appear in this issue.

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## News briefs from around the globe

*Helping readers burst out of the Caltech bubble*

### Need to know

< **100** words about the world this week - topics sorted from good to bad

by *The Tech* Eds

<b>Hero acts in shooting</b>	<b>1,000</b> rescued from Kenyan mall shooting with help from Abdul Haji <a href="#">[BBC]</a>
<b>Teen donates shoes</b>	<b>15-</b> year-old's non-profit donates 10,000 pairs of shoes to homeless <a href="#">[CNN]</a>
<b>London tourists rescued</b>	<b>30</b> rescued from freezing River Thames water after boat caught fire <a href="#">[BBC]</a>
<b>Apple sets sales record</b>	<b>9</b> million new iPhones sold in the first weekend after release <a href="#">[TIME]</a>
<b>Hornets kill in China</b>	<b>19</b> people stung to death by hornets in Hong Kong in last 3 months <a href="#">[CNN]</a>
<b>Nigerian students shot</b>	<b>21</b> college students killed while sleeping after gunman opens fire <a href="#">[CNN]</a>
<b>Stable Iraqi city attacked</b>	<b>25</b> people killed in suicide bombing in previously peaceful Irbil <a href="#">[BBC]</a>

## Food with Mannion!

*Do you like eating food?*

*How about free food at nice restaurants?*

*Ever want to tell the world exactly what you think of said food?*

*The Tech will be beginning a new column to chronicle the foodie experiences of new writers every other week... The Catch: They'll be going head-to-head with Tom Mannion who will be reviewing the same restaurant. If you have ever thought you were more of a gourmand than our resident master chef, now's your chance to prove it!*

*Email us for a spot on the list at [tech@caltech.edu](mailto:tech@caltech.edu)*

## NOMINATE YOUR FAVORITE PROFESSOR FOR THE FEYNMAN TEACHING PRIZE!

*Here's your chance to nominate your favorite professor for the 2013-14 Richard P. Feynman Prize for Excellence in Teaching! You have from now until January 2, 2014 to submit your nomination package to the Provost's Office to honor a professor who demonstrates, in the broadest sense, unusual ability, creativity, and innovation in undergraduate and graduate classroom or laboratory teaching.*

*The Feynman Prize is made possible through the generosity of Ione and Robert E. Paradise, with additional contributions from an anonymous local couple. Nominations for the Feynman Teaching Prize are welcome from faculty, students, postdoctoral scholars, staff, and alumni.*

*All professorial faculty of the Institute are eligible. The prize consists of a cash award of \$3,500, matched by an equivalent raise in the annual salary of the awardee. A letter of nomination and detailed supporting material, including, but not limited to, a curriculum vitae, course syllabus or description, and supporting recommendation letters should be emailed to [kkerbs@caltech.edu](mailto:kkerbs@caltech.edu) or directed to the Feynman Prize Selection Committee, Office of the Provost, Mail Code 206-31, at the California Institute of Technology, Pasadena, California, 91125. Nomination packages are due by January 2, 2014.*

*Additional information including guidelines for the prize and FAQ may be found at <http://provost.caltech.edu/FeynmanTeachingPrize>. Further information can also be obtained from Karen Kerbs (626-395-6039; [kkerbs@caltech.edu](mailto:kkerbs@caltech.edu)) in the Provost's Office.*

### The California Tech

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Letters and submissions are welcome; e-mail submissions to [tech@caltech.edu](mailto:tech@caltech.edu) as plain-text attachments, including the author's name, by Friday of the week before publication. The Tech does accept anonymous contributions under special circumstances. The editors reserve the right to edit and abridge all submissions for any reason. All written work remains property of its author.

The advertising deadline is 5 PM Friday; all advertising should be submitted electronically or as camera-ready art, but The Tech can also do simple typesetting and arrangement. All advertising inquiries should be directed to the business manager at [business@caltech.edu](mailto:business@caltech.edu). For subscription information, please send mail to "Subscriptions."

## Write articles for the Tech

get paid up to \$30

# Caltech Y Column: Intro to the organization

**PHOEBE ANN  
LAURA SANTOSO**  
Contributing Writers

Hi everyone! This is the Caltech Y Column, designed to inform you about the Y and the opportunities we provide for you to inspire your passions, whether by participating in our programs or leading your own!

Founded by students in 1916, the Y was organized to provide extracurricular activities planned and implemented by students as an opportunity to gain leadership skills and discover their passions and 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, and raise social, ethical, and cultural awareness through teamwork, community engagement, activism, and leadership.

The Caltech Y's mission and core values stand on five key pillars: leadership, civic engagement, service, adventure, and perspective. Regardless of which pillars capture your interest, feel free to attend any of the below programs, or contact us to organize your own!

Here's a sampling of past programs held by the Y:

- Alternative Spring Breaks: Costa Rica, New York, Yosemite, San Diego, San Francisco

- Make-A-Difference Day: Hillsides Home for Children, LA County Arboretum and Botanic Garden, Children's Hospital Los Angeles (Coachart), Eaton Canyon, Lifeline for Pets

- Explore LA: Lakers game, Next to Normal musical, Norton Simon Museum trip

## Upcoming Events:

### 1. Mt. Pinos Day Hike

Saturday | October 12th | 7:30 am - 6:00pm | Cost is \$15

A trip is being organized for Sunday, September 15th to hike the summits of Mt. Pinos, Sawmill Mountain, and Grouse Mountain. The hike will be around 10 miles long with moderate elevation gain and the last section of the hike will involve a little off-trail hiking to reach the summit of Grouse Mountain.

It can take up to two hours to drive each way to the trailhead, so we will meet at the Caltech Y and leave early at 7:30am, hoping to return at around 5-6pm (return time can be delayed by traffic).

We do need drivers but you need to be registered with the Caltech Y before you can drive others in your car.

So if you are willing and able, it's easy to register: just send us an email for details.

To sign up, fill out this google doc: <https://docs.google.com/forms/d/1VhySjM4rTN17OsCV4yOtPDuvvUIaK97xdvQ7VMH4CcA/viewform>. If you have questions contact Jeremy at [jsandler@caltech.edu](mailto:jsandler@caltech.edu)

### 2. Washington DC Science Policy Trip – Applications are available now, due Tuesday, October 15th by Noon

Monday, December 16th to Thursday, December 19th | Cost is only \$550 (with round trip flight to DC and back to LA) or \$325 (with one way flight to DC)

Dialogue with those who have played a role in setting and implementing science policy for the United States including: Academics, Lobbyists, Scientists, Politicians, and Caltech Alumni. Join us for an exploration into Science Policy on this exciting trip to the Nation's capitol. This four day trip includes flights, lodgings, some meals, discussions with science and policy leaders... and of course the sites and experiences of Washington D.C.

The small group sessions will be ideal for exploring relevant issues for our time in the context of national policy. The DC Science

Policy Trip is coordinated by the Caltech Y with generous support from the George Housner Fund. Questions and applications may be directed to [tocaltechy@caltech.edu](mailto:tocaltechy@caltech.edu). Applications are available at [www.caltechY.org](http://www.caltechY.org) now!

### 3. Rise Tutoring Program

Mon.-Thurs. | 4-6pm | Winnett, 2nd Floor

The Caltech Y Rise Program is currently accepting new tutors. The Rise Program is an afterschool math and science-focused tutoring program that serves public school students between grades 8 and 12. The tutoring takes place on the Caltech campus Monday-Thursday from 4pm-6pm. For more information about the program and to apply please visit our website at: [http://caltechy.org/programs\\_services/tutoring/](http://caltechy.org/programs_services/tutoring/).

### 4. Kids Reading to Succeed

Saturday | October 5th | 8:30am-11:30am | Villa Parke Community Center, Pasadena

Volunteers read with children and participate in fun activities based on a monthly theme. For more info and to RSVP email Jessica Lam at [jam@caltech.edu](mailto:jam@caltech.edu).

### 5. Union Station

Sunday | October 6th | 4-8pm | Pasadena

Prepare and serve dinner to the homeless at Union Station Family Center in Pasadena. Food and materials are provided. For more info and to RSVP email Katja Luxem at [kluxem@caltech.edu](mailto:kluxem@caltech.edu).

### 6. Hathaway Sycamores

Saturday | October 12th | 1:30-4:30pm | Highland Park

Volunteer at Hathaway-Sycamores, a group that supports local underprivileged but motivated high school students. Some of the subjects being tutored are AP Chemistry, AP Physics, and AP Calculus.

For more info and to RSVP Email Josie Kishi at [atjkishi@caltech.edu](mailto:atjkishi@caltech.edu).

If you have any questions at all, feel free to contact the Caltech Y at (626) 395-6163 or [caltechy@caltech.edu](mailto:caltechy@caltech.edu). Feel free to drop by at one of our weekly meetings at the Caltech Y at the Caltech Y (505 S. Wilson, next to CEFCU), time TBA.

Go to <http://caltechy.org/lists/> to self-subscribe to announcement lists for upcoming events and sign-up information.

For a student's perspective, feel free to contact Phoebe Ann at [phoebe.ann2@gmail.com](mailto:phoebe.ann2@gmail.com) or Laura Santoso at [santoso.laura@gmail.com](mailto:santoso.laura@gmail.com).

# Brad/Chad Couture: Fashionable fall apparel

**BRAD CHATTERGOON**  
Contributing Writer

It's about that time again, school is starting up, rotation is in full gear and temperatures are dropping down from that scorching summer heat to a comfortable chill.

Yup, that's right, fall term is here and with it comes the excitement and headache of a new school year. We're going to have a bunch of new classes to pique our interests and steal our sleep and a plethora of people to interact with—both the incoming freshman (Welcome to Caltech, Frosh!) and our long time friends.

With a new school year there are new opportunities, a chance to reinvent yourself...a time to get a new look. Fall is upon us and here are some of the key items that you want to have in your wardrobe to ward off the cold.

### 1. The Hoodie

This is a good casual wear article that I'm sure most of you already own.

It's very versatile and pairs well with a t-shirt for everyday wear and with a shirt for those slightly above casual looks.

I recommend getting a hoodie in a neutral color such as black, navy blue or grey so that it pairs well with most of your wardrobe. Since we are getting older, I recommend trending less on the

side of prints and bold branding and more toward a solid color.

### 2. The Cardigan

The cardigan is the hoodie's older, more versatile, brother. These pair well with almost any level of formality and give off a more mature feel than the youthful hoodie. If you don't already have one in your wardrobe, now is the time to get one.

There is a bit more freedom in picking the color of a cardigan relative to a hoodie. The safest choice is the classic grey heather cardigan but do feel free to experiment with pseudo-neutral colors such as wine, deep blues or even brighter shades of blue and red.

### 3. Corduroy Pants (Or "Cords")

Time to dig through your closet to find these fall-winter season pants. Cords are the quintessential fall replacement for jeans. These are warm, very comfortable 5-pocket pants that I have, on occasion, happily drifted off to sleep in.

They come in a variety of deep fall colors such as earthy green, pumpkin, and the classic tan-khaki color.

They also come in many different cuts, similar to jeans, and pair well with tees, shirts, and polos (and cardigans!).

I recommend starting with a safe tan color.



*Sophomore Alex Pien flirts with the camera while sporting a gingham-patterned shirt, a style similar to plaid. -Stanford Schor*

### 4. Plaid Everything! (Ok just kidding, plaid shirts).

Plaid is such a heavy pattern that it is often used as the center piece of the outfit, paired with solids or jeans in preference to other strong patterns, such as stripes, which may clash.

Flannel is a soft warm fabric but it can be uncomfortable during

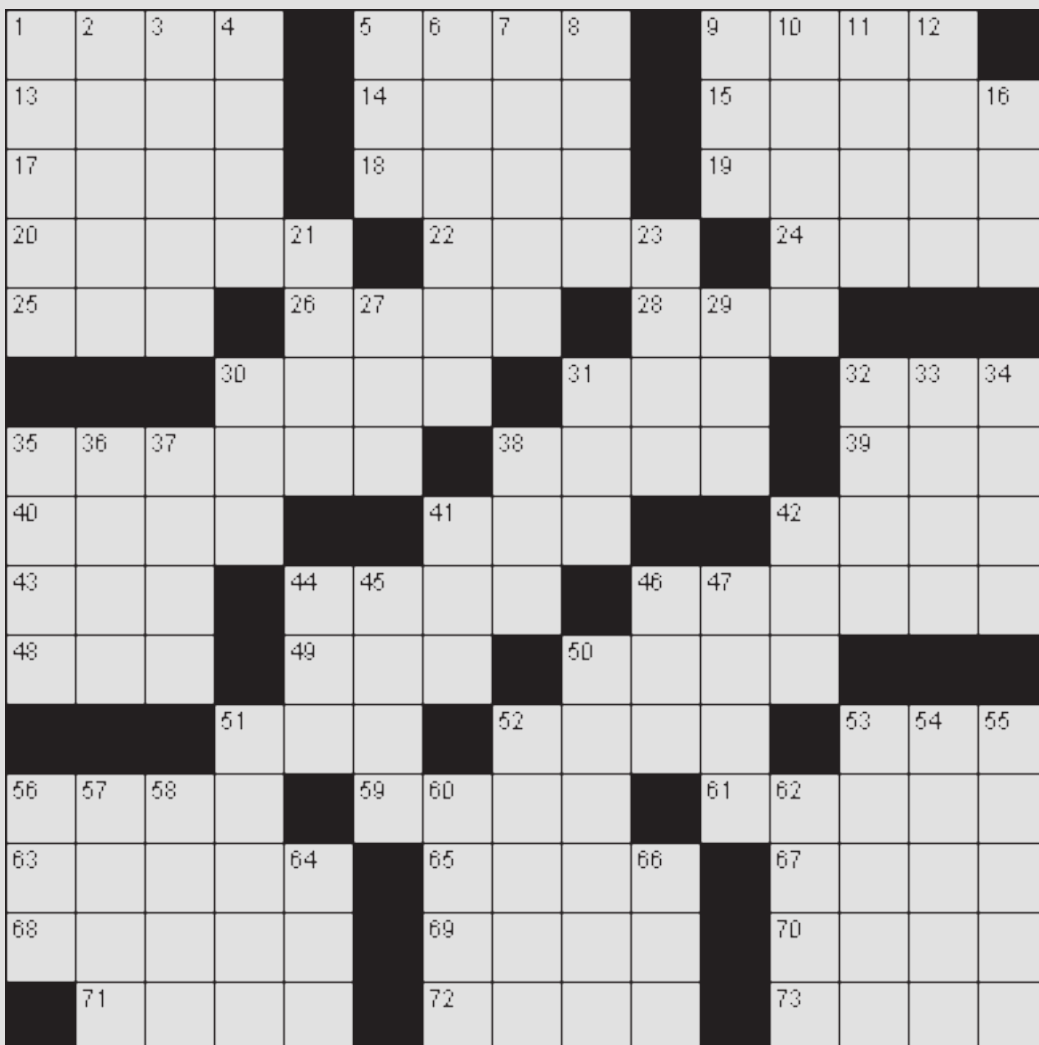
the hotter seasons of the year, so if you want a shirt that can be worn all year round, stick with normal cotton plaid shirts.

Hopefully, these few pieces of advice have inspired you to expand your wardrobe for this fall. Go out there and have fun with it!





## Today's Puzzle: Crossword



[www.puzzlechoice.com]

**Across**

1. Endure
5. Curved structure
9. Small lake
13. Succulent plants
14. Reign
15. Pertaining to birds
17. Exclusive
18. Leg joint
19. Right-hand page
20. Ignominy
22. Slow gait of a horse
24. Part of a woodwind instrument
25. Paddle
26. Fruit
28. Mesh
30. Plant
31. Title
32. Cunning
35. Assail
38. Information
39. Romance
40. Burden
41. Primitive weapon
42. Deride
43. Total
44. Scale drawing
46. Abhor
48. Metal-bearing mineral
49. Shred
50. Piece of furniture
51. Drunkard

52. Pulled or drawn tight
53. Darn
56. Catch sight of
59. Malevolent
61. Greeting
63. Card game
65. Molecule
67. Prepare food
68. Impressive display
69. Wild plum
70. Expect with desire
71. Acquire
72. Portable shelter
73. Tournament for professionals and amateurs

**Down**

1. Lariat
2. Hawaiian greeting
3. Relating to the sun
4. Swarm
5. Biblical boat
6. Airstrip
7. Percipient
8. Part of a shoe
9. Golfing term
10. Not secret or hidden
11. Pleasant
12. Appointment
16. Sign of assent
21. Long narrative poem
23. Entwine
27. Moose
29. Epoch
30. Man or boy
31. Cutting tool
32. Study intensively
33. Scottish lake
34. Linking gear for work animals
35. In addition
36. Term of enlistment
37. Restrained and quiet
38. Spanish title
41. Flexible container
42. Floor covering
44. In favor of
45. Tardy
46. Currency of Romania
47. Profane expression
50. Bar
51. Cut of meat
52. Heading
53. Sailing vessel
54. Run away to marry
55. Roused from sleep
56. Health spring
57. Left side of a ship facing the bow
58. Long green edible pods
60. Immense
62. Reverberation
64. Seed of the cereal grass
66. Encountered

*Caltech Public Events is now hiring student ushers.  
\$15 per hour to work concerts, performances, lectures,  
films and parties.*

*No experience needed, no hard labor, flexible  
schedules.*

*\*Requirements: Caltech student, Positive attitude,  
Friendly personality*

*To apply email Adam Jacobo (ajacobo@caltech.edu)  
or call (626) 395-5907*

*For info on Caltech Public Events visit: [www.caltech.edu/content/public-events](http://www.caltech.edu/content/public-events)*

Join us for a free talk by

**DR. LAURANCE DOYLE**

Titled "Physics and Metaphysics"

...

from **2-3:30 PM** on *Sunday*,

**October 6th** at

**Skirball Cultural Center**

(2701 N. Sepulveda Blvd Los Angeles, CA 90049)

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The talk will explore how the limitations of matter are being broken and how modern science is questioning established premises. It will be followed by a question and answer session with Dr. Doyle.

Dr. Doyle has worked at the SETI Institute since 1987, where he is a principal investigator and astrophysicist. His scientific work has focused on the search for habitable planets around other stars as well as other topics in quantum physics and thermodynamics. Dr. Doyle received his Ph.D from the Rubrecht Karl University of Heidelberg.

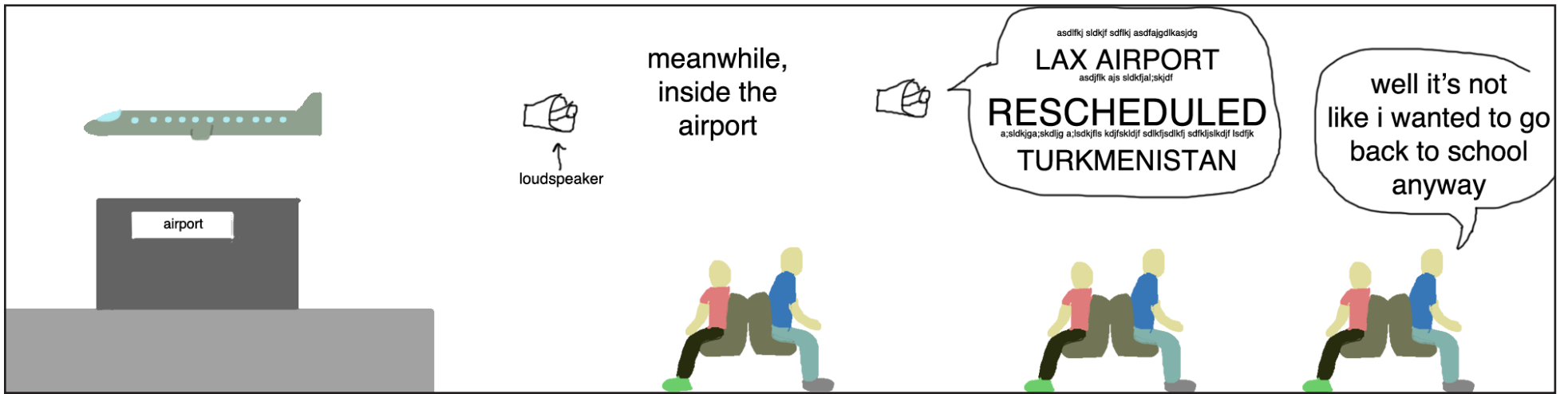
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This talk is a gift to the public from the Christian Science Church in Brentwood (310-820-2014, [tenthchurch@gmail.com](mailto:tenthchurch@gmail.com)). All are welcome to attend.

Please visit [10thchurch.com](http://10thchurch.com) for more details.

## Acquired Taste

Dr. Z



*Want to see more comics in the Tech?*

*Email your submissions to [tech@caltech.edu](mailto:tech@caltech.edu)!*

*For more photos, videos, and archives of previous issues, check out the Tech website!*

[tech.caltech.edu](http://tech.caltech.edu)

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