The American Academy of Arts and Sciences has elected five Caltech community members as academy fellows. They are faculty members Michael B. Elowitz, professor of biology and bioengineering and an investigator with the Howard Hughes Medical Institute; Mory Gharib, (PhD ’83), Hans and ChristaHummer-Tuttle Foundation, serves as a director of Huntington Memorial Hospital in Pasadena. Elowitz, Gharib, and Hsieh-Wilson join 83 current Caltech faculty as members of the American Academy. Also included in this year’s list are five alumni: Robert Cohen (MS ’70, PhD ’72), St. Laurent Professor of Chemical Engineering at MIT and co-director of the DuPont-MIT Alliance; Alexei Filippenko (PhD ’84), professor of astronomy at UC Berkeley; Katherine Hayles (MS ’69), professor of literature at Duke University; Michael Snyder (PhD ’83), professor and chair of genetics at Stanford University; and Donald Truhlar (PhD ’70), professor of chemistry at the University of Minnesota.

Founded in 1780 by John Adams, James Bowdoin, John Hancock, and other scholar-patriots, the academy aims to serve the nation by cultivating “every art and science which may tend to advance the interest, honor, dignity, and happiness of a free, independent, and virtuous people.” The academy has elected as fellows and foreign honorary members “leading thinkers and doers” from each generation, including George Washington and Ben Franklin in the 18th century, Daniel Webster and Ralph Waldo Emerson in the 19th, and Albert Einstein and Woodrow Wilson in the 20th.

A full list of new members is available on the academy website at https://www.amacad.org/content/members/members.aspx.

The new class will be inducted at a ceremony on October 10, 2015, in Cambridge, Massachusetts.

Jim Rothenberg is chairman of the Capital Group Companies, Inc. In addition to his service on the Caltech board, he serves on the boards of Capital Research and Management Company, the Capital Group Companies, Inc., and American Funds Distributors, Inc. In addition, he is a partner and chair of Huntington Memorial Hospital in Pasadena.

Elowitz studies synthetic genetics—interacting genes and proteins that enable cells to sense environmental conditions and to communicate. He and his group build simplified synthetic genetic circuits and study their effects in bacteria, yeast, and mammalian cells. He has received numerous honors in recognition of his work, including his election as an MacArthur Fellow in 2007.

Mory Gharib and his group use nature’s own design principles—apparent in fins, wings, blood vessels, and more—as inspiration for a myriad of inventions. They study how the zebrafish heart to develop efficient micropumps and more efficient artificial heart valves, and cactus spine to develop arrays of nanoneedles, based on carbon nanotubes, for painless drug delivery. Gharib holds nearly 100 patents, and was elected to the National Academy of Engineering in 2015.

Linda C. Hsieh-Wilson was noted for her pioneering work in synthetic biology. Her work combines organic chemistry and neurobiology in order to understand how carbohydrates contribute to fundamental brain processes such as cell growth and neuronal communication, neural development, and memory at the molecular level. She and her group discovered a means for suppressing tumor-cell growth by blocking the attachment of certain sugars to proteins, restricting delivery of certain carbohydrates to proteins within the tumor.

Maria Hummer-Tuttle, a lawyer, was a partner and chair of the management committee and co-managing partner of Manatt, Phelps and Phillips in Los Angeles. She currently serves on the boards of Caltech, the J. Paul Getty Trust, the W. M. Keck Foundation, the Sisu Foundation, and the Foundation for Art and Preservation in Embassies. Hummer-Tuttle is president of the Hummer-Tuttle Foundation, serves as an advisor to the USC Political Science
department and is on the advisory board of the Annenberg School as well as on the program advisory committee of the Annenberg Retreat at Sunnylands, and is a member of the Pacific Council on International Policy, the Council on Foreign Relations, the board of the Getty Conservation Institute Council.

Paul Dieterle was the editor of the weekly Caltech student newspaper, the Tech, and was a senior editor at the Los Angeles Times. In 1981, he founded and served as editor of the TechCaltech, a student newspaper, which in 1983 became a weekly and which he edited until 1989.
Senior class co-president candidate statements (2 teams)

ELLORA SARKAR
GRACE PARK

Wake up, class of 2016! Ditch day is tomorrow, and we would still love to do this. From planning ditch day, senior trip, senior gift, and events. It’s a lot of work, but we think as your senior class co-presidents we can rise to the challenge and make senior year unforgettable. We’ve been serving as student leaders for years and worked to better the student life as a whole. Between the two of us, we served you on the IRC, prefrreshman yield committee, admissions committee, and the head UCC counsel. Through these experiences we’ve established positive relationships with Tom Mannion, Deans, and many other administrators. We’ve also organized and helped plan events from all sorts: high school wide events like rotation, prefrresh weekend, caltech dance show, and the school 4th of July BBQ, to logistically intricate pranks like the Pasadena sign, MIT mug prank, pi-chain, and to small scale events like Mannion Sunday dinners.

We’ve gotten the chance to get out of the house with these events and build friendships with those in all the fine houses. So here’s your game plan: we think ditch day is awesome, so we want to plan school wide wide events and make it flow as smooth as possible. Second, we’ll closely coordinate with administrators and your house reps to plan events that our class would genuinely be excited to attend. We’ll make sure to ask for input and actually take them into consideration for the senior class trip, senior banquet, and graduation week. Communication is hard, but we’ll give it our best to ensure that you are well informed about any changes or plans. The upcoming school year is the last one we have to spend together as a class. Vote for us and we’ll pour our time, energy, resources, and skills into making sure it’s the best year possible!

GALEN GAO
STEPHANIE WONG

During our first three years at Caltech, we have each been able to participate in many memorable Ditch Day stacks - both fake and real, and within just a few weeks, we'll be planning and creating our own stacks, marking our own transition into becoming seniors. As Senior Class Co-Presidents, one of our primary objectives will be to ensure that such traditions like Ditch Day continue with the same excellence and excitement. Younger classes to continue them with the same enthusiasm for everyone on campus, and inspire the younger classes to continue them with the same excellence and excitement.

We, Galen Gao and Stephanie Wong, are two motivated individuals dedicated to the pursuit of this goal. Between the two of us, we have been involved with the Caltech Fund, PreFresh Yield Committee, and various house positions. Through our experiences with Caltech Athletics, we know the value of cooperation and dedication to the task at hand. Even though we are not your typical student leaders involved in traditional, prominent leadership roles on campus, we are proud to be part of the Class of 2016 and the rest of the student body at Caltech, and we would like to reciprocate by serving as your senior class copresidents.

The primary responsibilities of the senior class copresidents are to organize Ditch Day, any campuswide fakes, the senior class trip, graduation, and the senior class gift. As representatives of our entire class, we will try to represent all of your opinions and ideas and speak for our class collectively when we plan these activities. We will work together with the senior reps from all houses in order to strive to ensure that these events and our class gift appeal to all of our class and represent the attitudes and wishes of each and every one of us.

We assure you that we will work our hardest to make our senior year a fun and memorable one and a fitting capstone to our Caltech experiences.

Although we understand that there is a lot to be done, we nonetheless are prepared to take the job seriously so that we can all end our Caltech experience on a high note. Together, we can make 2015-2016 great.

If you have any questions or topics you would like to discuss, feel free to contact either of us. Thank you.

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WE ACCEPT REVIEWS, OPINION PIECES, RESEARCH, NEWS STORIES, COMICS AND MORE!

EMAIL TECH@CALTECH.EDU WITH QUESTIONS!

CALTECH PRESENTS

Wednesday, May 20, 2015 / 8 p.m.

WATCHING PAINT DRY AND COLORS FADE: THE INTERSECTION OF ART AND SCIENCE

KATHERINE T. FABER, Simon Ramo Professor of Materials Science

Free Admission / Free Parking
Caltech's Beckman Auditorium
www.events.caltech.edu

Call campus x 4652 for information
The only thing I love more than democracy is Winston Churchill’s quote about democracy: “Democracy is the worst form of government except for all the others that have been tried.” If you own a pickup truck or voted for Dick Cheney, you may be surprised that Churchill even knew what democracy was. Wasn’t he too busy being oppressed by the queen of England instead of enjoying the sweet smell of freedom (read: McCarthyism) in post-war America? Shockingly, no. The United Kingdom is actually a democracy too. The U.K. held a general election on May 7 to elect the 650 members of Parliament’s House of Commons. This election is akin to elections for the U.S. House of Representatives: members are elected to represent their respective constituencies.

The results: 331 seats to the Conservative Party (Tories), 232 seats to the Labour Party, 56 seats to the Scottish National Party (SNP), and the remaining seats to minor parties. This means the Tories hold an absolute majority of seats in Parliament, and their leader David Cameron will remain prime minister. The election saw the Tories expand their plurality to a majority, so they no longer need the Liberal Democrats (Lib Dems) to tug at peoples’ heartstrings instead of their heads. But here’s the sad truth: it works. Election results confirm it. I think the only way to avoid fear-mongering designed to electorate to become more educated and demonstrate a proportional system. In other words, based on rational opinions instead of irrational inclinations. Until that day, we’re stuck with more doomsday prophecies.

Nativism: If there’s one thing I hate more than fear-mongering, it’s nativism. Britons showed it in their election. Some of Cameron’s electoral promises were meant to pacify the U.K. Independence Party (UKIP), an upstart party focused on withdrawing the U.K. from the European Union and restricting immigration. To that end, Cameron has promised to renegotiate the U.K.’s position in the EU and then hold a referendum in 2017 on whether to stay a member. Disturb of immigrants from Eastern Europe and other foreigners from beyond Europe has prompted these actions, so leaving the EU would leave serious doubts about whether Western nations are actually committed to embracing diversity as we claim to be. Closing borders to outsiders would deal a blow to global economic mobility at the exact time that millions are being displaced from conflicted countries, seeking economic opportunity in the world’s bastions of stability. Let’s hope Britain chooses to remain integrated in the European network instead of taking steps to isolate itself.

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Django Django releases “psychedelic art rock” album

Continued from page 3

On Django Django’s self-titled, thanks to plenty of straight 4/4 beats without the Latin and African flavors that were present before, claps on the upbeat and quite a few uses of a tambourine playing 1/16 notes. This really diminishes the quality of the percussion from what it was, and together with the piano it’s like listening to Django Django through some sort of weird arena rock filter. It feels like the band squandered the chances it got to incorporate new sounds into its palette. I don’t know how much Django Django could have done since instrumental and rhythmic variety is the core of the band’s music, and I think the band would have to try an altogether different aesthetic to surprise the listener.

Some of these complaints may seem harsh, but it’s just disappointing that Born Under Saturn is lacking in substance, as it cannot be understated how competent these guys are at writing music that sounds good. There’s very little that sounds out of place, and all the individual parts are designed to fit together in the almost predictable style you’d expect from classical music, not a rock band. There’s a moment in the middle of “Vibrations,” during the lyrics “The thunder claps as I’m struck by my self,” with the “claps” coming right on a clap-like sound from the percussion, and while plenty of artists have done this sort of thing there are examples in every song. If there’s some interaction to be taken advantage of between two of the parts, you can be sure that the band incorporated it, which makes for a very satisfying listen if you like heavily rhythmic music. It’s not as though there aren’t any tracks I liked: “4000 Years” has a somewhat cheesy chorus of “Don’t think that you know me, I’ll always be a stranger, but the relatively aggressive guitars and rumbling, evolving drumbeat reminded me of what I liked about the first album, the repetitive but soaring and vivid choruses of “First Light” was definitely memorable and “Giant” is probably the best use of simple percussion. Still, it’s a bit like listening to an album of B-sides from its predecessor: sure, it’s better than nothing, but a reason these didn’t make the cut.

I wish that this album weren’t too mediocre, but I don’t expect even hitting the benchmark set by Django Django’s first album would have been difficult. But this situation also reminds me of a bit of J’s painting itself into an artistic corner and not knowing how to do anything else well. I can see this record appealing to people for whom Django Django’s earlier work has maybe been too weird since it takes a lot more inspiration from rock this time around, but I think that this is strictly inferior for people who liked Django Django. People in the latter group should still listen to Born Under Saturn, though, since they’ve bound to like at least something. Above all, I hope that Django Django is able to learn from this release and improve their next.

DOUGLAS L. SMITH
Contributing Writer

The Science of TV’s The Big Bang Theory, subtitled “Explanations Even Penny Would Understand,” by Dave Zobel (B.S. ’84) covers an astonishing variety of material — a bathroom book in the very best sense of the word. An encyclopedia of c o m p e n d i u m 398 pages long, Roman numerals not included, it is designed to be consumed piecemeal. The chapters, with zesty titles such as “The Smoots and Wheatons” (about obscure units of measurement) and “Fishing” (about fluorescent genes), run some 10 quick pages each. The text is peppered with slightly less than 6.0 x 10^23 sidebars that, like a typical e c o l o g y text on evolution, with Sheldon, are brimming with definitions for Penny’s bitch, random facts, tangentially related anecdotes and n recurring themes, where n = 4. For instance: “The dodo bird, extinct in 1681, was the same time bonked with an apple inspired his theory of gravity, despite any hard historical evidence for same; or, in an uncannily related example, the question of the floor on which Leonard and Sheldon’s apartment is situated, based on measuring the various time intervals it takes for an object flung from the window or down the elevator shaft to shatter and giving off fire. eureka@caltech.edu — Descriptions of really cool stuff happening at Caltech, such as the L e g o sculpture, is impressive in that Caltech co-runs with that place where Wolowitz got his master’s degree (MIT), LIGO is searching for distortions in spacetime that Einstein predicted would result from supernovae exploding, black holes and similar great disturbances in the Force. Of gravity, that is.

Ask an Icon Questions posed to (and answered by) such luminaries as Neil deGrasse Tyson, Stephen Hawking (Sheldon’s favorite Catwoman) and, of course, Stephen Hawking.

Out to Lands Beyond sales colliding of alumni who have risen to the top of nontraditional fields, including Frank Capra (B.S. ’18), director of It’s a Wonderful Life; Richard Feynman (Sheldon’s favorite Catwoman) and, of course, Stephen Hawking.

The Legacy Content Producer

Caltech alum releases book about long-running TV show The Big Bang Theory

And this reviewer’s favorite, In What Universe? — an opening attempt to figure out where Sheldon and Leonard’s apartment building at 2311 North Los Robles Avenue actually is. Spoiler alert: it doesn’t exist, as is obvious to anybody who is conversant with both the stoops for postdocs and the fact that Pasadena’s City Hall, whose dome is visible from the living-room window, is in a very prickly neighborhood.

Zobel is a consistently entertaining but full-bore writer: so brace yourself for a fire hose of inside jokes — some of which are so far inside they may well skate past the casual reader, as illustrated in the paragraph below from “Smooths and Wheatons.”

“Almost anything can be turned into an unanswerable question. At one night in 1998, at an institute of technology somewhere in Massachusetts, diminutive freshman Oliver Smoot’s fraternity brothers pressed him into service as a living yardstick for measuring the length of the Harvard Bridge. The final tally: 364.4 smoots, plus or minus an ear.”

As a compulsive proofreader (it comes with the territory), my first thought was, “Ahah! A typo!” and it was not until my third re-reading that I discovered upon me that, well, duh, duh-duh, epsilon is the standard symbol for arbitrarily small quantities, such as when one is discussing error measurements. Bazinga!

Douglas L. Smith is almost as big a fan of The Big Bang Theory as Dave Zobel; Smith is the Legacy Content Producer in Caltech’s Office of Strategic Communications.

Caltech’s 35th Annual Bandorama to be held on Alumni Reunion Weekend

On Friday, May 15th and Saturday, May 16th at 8:00pm in front of the Miller Center, the Caltech-Occidental Concert Band (William Bing, Director) and the Caltech-Jazz Band (Barb Catlin, Director) will be holding their 35th Annual Bandorama with free admission and no tickets required.

These concerts, held during the Caltech Alumni Association’s Reunion Weekend, will feature many pieces directly tied to Caltech’s history, staff, and alumni.

Before Caltech adopted its current name in 1902, it was known as the Institute of Technology with its original campus in downtown Pasadena. “Throop March”, by E.C. Kammermeyer (arr. Ray Burkhart) was written in honor of Throop College and will be performed by the Caltech-Occidental Concert Band.

Dr. Les Deutsch, a Caltech alumnus, will be conducting his own piece, “Continental Stick” in which each of the four movements represents a year of his experiences as a Caltech Undergraduate. You’ll have to come listen to hear Dr. Deutsch’s interpretation of his life as a Caltech Undergrad before he went on the earn his Ph.D. in Mathematics from Caltech!

Additionally, Professor Paul Aspinwall will be conducting the Devo’s Slavonic Dances numbers 7 and 8. Dr. Aspinow, Professor of Geology and Geochemistry, regularly guest conducts the ensemble when he is not on the other side of the baton playing his tuba.

The Caltech Jazz Band has reached new heights under the new jazz band director, Barb Catlin. A huge crowd came out to support them at the recent Caltech Jazz Festival.

However, these aren’t the only reasons you should come see this free-of-charge concert! You can come to support your fellow Caltech Undergrads who play in the groups, including graduating seniors Ken Bierman, Ian Koeh, Nicholas Parker, and Ellen Price in the Caltech-Occidental Concert Band as well as graduating seniors Dan DePillosis and Jonathan Liu in the Caltech Jazz Band!
JOIN US IN WELCOMING ALUMNI BACK TO CAMPUS.

ALUMNI REUNION WEEKEND
78TH ANNUAL SEMINAR DAY
MAY 14 - 17 2015
ASCIT Minutes

ASCIT Board of Directors Meeting
Minutes for 5 May 2015. Taken by Phillip An.

Officers Present: Cat Jamshidi, Patrick Nikong, Sean McKenna, Connor Rosen, Nima Badizadegan, Connie Hsueh, Phillip An, Kalyn Chang, Jay Pelekari

Guests: Advith Chelikani, Jon Liu

Call to Order: 12:05

President’s Report (Connor):
- Faculty board meeting week: water conservation and CS option
- BoC summit May 11 at 7pm in Winnett - discussion of proposed amendment and current state of the Honor Code
- Vice Provost’s office hours are adjusted - email sent out with corrected office hours
- Uniting: proposal for UASH min equal to full time enrollment min.
- Midnight donuts on Wednesday, May 6th
- Everyone should take the Campus Climate Survey

Officer’s Reports:
- V.P. of Academic Affairs (ARC Chair: Nima):
  - Undergraduate Seminar: May 13th
  - ARC Teaching Awards decided: email will be sent, date TBD
  - ARC Secretary and Rep at large signups are soon
- V.P. of Non-Academic Affairs (IHC Chair: Cat):
  - Sign-ups for committees are posted. We’ll make appointments Sunday.
  - Frosh numbers should be released today
  - Feedback on the search for a new undergraduate dean can be directed to Connor or Cat.
  - What are your feelings about Chandler Dinners? Better quality food than normal house dinners, move towards greater frequency of dinners, cheaper than normal food
- Director of Operations (Connie):
  - ASCIT Screening Room is fixed
  - Avengers shown night before outing
- Treasurer (Patrick):
  - Reimbursements
  - Tax Return
- Social Director (Annie):
  - ASCIT Movie night went well, over 500 people showed up, popcorn and drinks cost $4000
  - Aquarium Trip is scrapped
  - Puppies are happening on June 6th
  - TechStock and Dodgers Baseball Game: Will meet with Tom for Downtown Fiction headliner, 14 Bands have already signed up
- Secretary (Phillips):
  - Send out headshots for the update Board on Olive Walk
  - Donuts will happen on Wednesday. Be at Tom’s at 9:30 to stuff them.
  - DevTeam: Incentivize further progress of updating the website and servers. Transition
- Vice President of Non-Academic Affairs (ARC Chair: Nima):
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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 May 12th at 12pm in Winnett Lounge.

Meeting Adjourned: 12:46 pm
Understanding Leadership: Insights from Steve Jobs

Hey, Caltech. Hope midterms went well. For the seniors, just three more weeks! For the non-math inclined that means we are currently drifting through week 7.

The topic of leadership has been floating around my mind in recent weeks. Here are some of the questions I have been trying to answer: What is leadership? What does it mean to be a good leader? What should a leader’s goals and actions be? The astute reader might discern that these three questions are almost essentially the same although not quite. For most of this last term, I have been focusing on business topics and introduced the idea of soft skills some weeks ago. Leadership is definitely one of the critical soft skills and in order to understand it a bit better I turned to Google as a source of reference. Here is my interpretation of some famous thoughts on leadership.

“When you grow up you tend to get told that the world is the way it is and your life is just to live your life inside the world. Try not to bash into the walls too much. Try to have a nice family life, have fun, save a little money. That’s a very limited life. Life can be much broader and richer. Life is about having an opinion, a view about what is the world and who you are, and then picturing the world as it should be. It’s about having an opinion, a view of a better version of reality. But again, it’s more than that. Having a view is necessary but it is not sufficient; as Jeff Bezos of Amazon rightly said, “Complaining is not a strategy.” Also necessary is the desire and will to pursue that view to its completion. This is where Jobs hits the nail on the head. In order to accomplish anything of magnitude we must break away from mold that the current society has fashioned for us. There are shackles holding us in place that most of us are not even aware of. We are subliminally encouraged to be overly politically correct lest we offend someone; we are encouraged to follow the herd, not to bash into the walls too much.

Part of this mold is also the focus on the “pursuit of happiness.” What that means will vary from person to person, but it might well emulate the tried and true model of college, stable job, marriage and possibly children.

But this quotation is not meant to resonate with those readers. It is meant to resonate with the ones who spend their free time pondering such questions as: How do I make a tangible difference? How will I change the world?

Personally, I believe that we can teach a person how to lead but we cannot teach someone how to be a leader and the old adage “leaders are born, not made” might hold some truth. Innate in some is the latent potential to become a leader waiting to be woken. Of course, not everyone is meant be a leader, but not everyone was meant to be an employee either.

Which one are you?

-Brad/Chad

Crossword

Across

Down

Sudoku

1 2 7 6 5 3 9 5 8 2 6 3 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 7 9 8 6 3 2 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5 9 8 7 1 4 9 8 3 6 1 4 5

http://puzzlechoic.com

http://puzzlechoice.com

Crossword

http://puzzlechoic.com

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Acquired Taste

Hey guys, wanna go to T. Boyles next Friday?

Actually I can't make it 'til next term.

I'm busy on Thursdays, Wednesdays, Mondays, Fridays, and Saturdays.

Let's do it next month.

Can't make it until next Thursday.

Busy.

Never mind, something came up.

So, we going?

Sorry, can't come.

Reasons I hate Caltech

#493

Answers to previous crossword

Answers to previous Sudoku

The California Tech
Caltech 40-58
Pasadena, CA 91125