John Nash dies in NJ car accident

CASEY HANDMER  Contributing Writer

On May 23, John Nash and his wife, Alicia Lopez-Harrison de Lardé, died in a traffic accident in New Jersey. Two other people were injured. Nash was returning from a trip to Norway, where he had been awarded the Abel Prize in recognition of his extraordinary career and contributions to the field of mathematics. Nash’s life was memorialized by the 1998 book and 2001 film A Beautiful Mind.

Nash was born in West Virginia in 1928, and attended the Carnegie Institute of Technology (now Carnegie Mellon University) where, his interests evolving, he switched majors from chemical engineering to chemistry, and finally to mathematics, graduating in 1948 with a B.S. and M.S. He followed this with graduate work at Princeton University, earning his Ph.D. in 1950 at the age of 21. His 28-page doctoral thesis (https:// goo.gl/IJC4mb) introduced non-cooperative games and the Nash equilibrium, for which he subsequently was awarded one-third of The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel 1994.

Nash was hired by MIT in 1951. In 1952 he fathered and subsequently abandoned his first son, John David Stier. His summer

Cast holds screening of Star Trek musical parody

(From left) Spock (Casey Handmer) and Takya (Holly Bender) share an emotional connection during a song.

Photo Courtesy of Nehaly Shah

http://hevea.imag.fr/
the theme is byrea Shah from information given by the Caltech Y and its student leaders. Exaended, qualified 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://caltech.y.com. The office is located at 505 S. Wilson Avenue.

Ongoing and past programs hosted by the Y:

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

Make-A-Difference Day: Hillsides Home for Children in LA County, Arborject and Botanic Garden, Children’s Hospital Los Angeles, Eaton Canyon, Lifeline for Pets

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

RISE Tutoring program (an afterschool math and science-focused tutoring program that serves public school students between grades 8 and 12)

Upcoming Events

1. Caltech Y - Decompression Saturday | June 6th | 7:00 - 9:00 PM | Winnet

Stressed during finals week? Join us to decompress with free food - burger, hot dogs, cookies, free fruits and veggies, ice cream, chips and drinks; - movies; and just hanging out with your friends. It is a great way to relax a little before the last finals of the school year!

If you’d like to volunteer to help out, please fill out the form here: https://forms.gle/Q6SY7ygGFF.

The theme is to be decided and volunteers get a free gift card.

2. Union Station Family Center Sunday | June 7th | 4:00 - 8:00 PM | Pasadena

Prepare and serve dinner to the homeless at Union Station Family Center in Pasadena. Food and materials are provided. The Family Center provides a home-like environment for up to 50 parents and children. It is one of the only shelters in LA County that accepts single fathers with children. For more info and to RSVP email Stephanie Hong (stephanie.hong95@gmail.com) or Ruchan Wang (rmwang@caltech.edu).

38. Pasadena LEARNS Friday | 3:30 - 5:00pm | Madison and Jackson Elementary School | Pasadena

Come volunteer at Madison and Jackson Elementary School! We are partnered with the Pasadena LEARNS program and work with their Science Olympiad team or do regular tutoring along with occasional hands-on science experiments. Transportation is provided. For more information and to RSVP, contact vkkumar@caltech.edu. Eligible for Federal Work Study.

3b. Hathaway Sycamores Monday | 5:30-8:00pm | Highland Park

Volunteer at Hathaway-Sycamores, a group that supports local underprivileged but motivated high school students. There are a variety of ages and subjects being tutored. The service trip includes about an hour of travel time and 1.5 hours of tutoring. Transportation is included. For more info and to RSVP email Sherwood Richard at srichers@tapir.caltech.edu. Eligible for Federal Work Study.

**JOIN THE CALIFORNIA TECH’S STAFF!**

We are looking for more contributors for the next academic school year.

We accept reviews, opinion pieces, research, news stories, comics and more! Email tech@caltech.edu with questions.

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**Honor Code amendments pass**

**CONNOR ROSEN AND ADAM JERMYN**

**JOHN DARBI**

Contributing Writers

Dean of Undergraduate Students

Two years ago, following heated debate at the Student Senate, the Ad hoc Honor Code Committee was formed to investigate the effectiveness of the Honor Code and make recommendations for improvements. Over the course of this process, which involved and benefited strongly from multilateral talks among students, faculty, and staff, the student-run Board of Control adopted new practices for communicating with faculty and consented with the Committee’s recommendation to increase the involvement of the Dean of Undergraduates in the dismissals process. These practices were recently accepted by the student body in the form of amendments to the Board of Control bylaws in a campus-wide vote. We strongly believe these changes will strengthen the Honor Code, address existing faculty and student concerns and maintain the most important aspects of autonomy that enable the Board of Control to work effectively.

The new bylaws require the Board to consult with the dean on all dismissals, and allow the Board to reconsider the case after this conversation with the dean if relevant information arises. This will give faculty greater insight into the dismissal process, and allow the dean to work with the Board to keep track of dismissals as well as convey additional information that may change the outcome of a case. The new bylaws also reinforce the Board’s final say in dismissals. This is a strong step toward meeting faculty concerns about oversight of dismissals while maintaining the student-run nature of the process, and will give the dean a greater ability to communicate faculty concerns to the Board as well as better communicate the Board’s decisions to faculty members.

The bylaw amendments and changes to the Board of Control procedures came about through careful consultation among students, faculty and staff, as well as a concerted effort by student leaders to educate the student body and communicate faculty concerns and the potential benefits of the amendments to the student body. These positive changes were enabled by close communication among all involved parties, as well as the trust placed in student leaders by faculty and staff to accomplish mutual goals without unilateral decisions imposed upon the students by the administration. We believe this is a model for addressing future issues facing the faculty and students.

**John Nash and wife killed in crash**

Continued from page 1 research work on games and the Cold War for RAND Corporation came to an end in 1954 when he was stripped of his clearance after being arrested in a homosexual sting operation at the height of the McCarthy-era hysteria. In 1957 he proved Hilbert’s 10th problem, only to find an independent solution had been published by the Italian mathematician Ettore de Giorgi just months before.

Around this time, Nash met Alicia Lopez-Harrison de Lardé, an MIT-educated physicist originally from El Salvador. They married in 1957 in a Roman Catholic ceremony, despite Nash’s atheism. In 1958 he was sentenced at MIT but by 1959 his mental illness began to manifest. Nash resigned from MIT and underwent sporadic treatment for schizophrenia for much of the next decade. His second son, John Charles Martin Nash, was born soon after his first admission. Although Alicia and Nash divorced in 1969, he ended up boarding in her house following his release from his last hospitalization in 1970.

While he never stopped mathematically research entirely after the sudden onset of his illness, his gradual recovery during the 1970s and 1980s saw a second blossoming of his mathematical creativity and a series of productive collaborations, initially using email. During the 1990s, he resumed some teaching duties at Princeton and, in 2001, Nash and Alicia remarried. Nash has stated that through his recovery he learned to manage the societally challenging aspects of schizophrenic behavior while trying not to restrict his incredible creativity.

While Nash is best known for his work on games theory, with 21 publications he made an array of astounding and sometimes baffling contributions to many other areas of mathematics. His recently declassified work on cryptography in the early 1950s was decades ahead of its time. His proposed encryption/decryption algorithms, while different from RSA or GPG, are similarly based on the concept of computational hardness and have since been shown to be as effective.

He made contributions to algebraic geometry and topology, and work in geometry produced the Nash Embedding Theorem in 1966, which showed that every Riemannian manifold can be isometrically embedded into some Euclidean space. Constructive proofs soon followed and today it’s possible to visualize the embedding of a square torus in 3D space.

**Have a great summer, and see you this fall!**
Is there life beyond the Caltech bubble?

MONICA ENLOW Contributing Writer

Since this is the last issue of The Tech for the 2014-2015 school year, I figured I’d take a moment to reflect on my time here at Tech. This piece is not meant to be a rant or a complaint but simply a reflection that someone (or no one) can take something from.

This year I was told by Jarrid Whitney, the executive director of the California Tech Publishing Fund, that I was the first admitted student in the Class of 2015 to accept to Caltech. At that time, some four years ago, I was called by the admissions office. My parents thought it was a lovely welcome call, and I didn’t think twice about it. I am now about to graduate from Caltech, and I find out that the call was meant to gauge whether or not I had intentionally attempted to stay ignorant, though. I see my friends at peer institutions involved in the social issues of the day (which I have been involved in many different areas on campus. In each of those areas I have attempted to make a difference. Those areas of campus include, but are not limited to, the Caltech Center for Cultural Diversity, ASCIT and the Caltech Friends.)

I have been constantly faced with the issue of diversity on this campus. I was the only enrolled black female on campus, and I know proudly that there is one in every class; however, that number is not enough. I don’t believe that Caltech wants to remain an institution that contains “token minorities,” the select few underrepresented populations written up on every committee, board, advisory council, etc. I am encouraged by President Rosenbaum’s renewed significant things I truly. While I would have liked to have seen more of an administrative effort to improve the measures of diversity before the final weeks of my senior year, it’s better late than never. The first step to fixing a problem is admitting that there is one. Caltech is a unique institution that is very different from most other colleges and universities; I believe that when it comes to diversity, however, we should at least (on our peer institutions). I am encouraged to see the progressive Caltech will make in the upcoming years regarding diversity.

In that same vein, I am encouraged that Caltech is waking up. My roommate is currently president of the Feminist Club on campus, and I am consistently impressed by her efforts, and the efforts of many others, to raise awareness about issues that people don’t think affect Caltech. In the news there are so many events that raised awareness about issues on minorities and LGBTQ individuals, and frankly I don’t believe that the Caltech student body is as awake (or as we know as the next person that sets time. Lab takes time. Sports take time. Sleep doesn’t take enough time as it should. Those shouldn’t be excuses to stay ignorant, though. I see my friends at peer institutions involved in the social issues of the day (which will inevitably affect Techers once they leave the safety of the Caltech campus), and I realize that I want to stay woke, but I can’t think past the ACMOogie final I have due. I wholeheartedly appreciate the contributors to The Tech regarding social issues that our campus or other areas of the world are facing.

The California Tech has been one of my biggest passions over the past couple years. I believe in the power of journalism and the media, and as much as people don’t want to admit it, I know they read this paper. I have had to learn more about the things I have been more than times I have been heard in person, and I am encouraged by the campus discussions The Tech should be a means to make more people to the Tech regarding social issues that our campus or other areas of the world are facing.

The Tech should be a dumping ground for rant! Do you believe that The Tech should be a means to foster productive discussions? Yes. As a former editor of this paper I can attest to the use of editorial discretion, and I believe that it is necessary but shouldn’t deter people from writing articles. If all the above post your article on your Facebook or your blog and tell people to read it there. The point is, don’t get upset with the content of something to publish or not to publish certain content. The editorial staff is doing the best they possibly can to ensure that the content published is quality and that the discussions that arise from the content published will be productive.

TL;DR: The Caltech bubble is a real thing. There are issues on this campus involving diversity, "electrical concerns that need to be raised. The Tech is doing the best it can to address these but very few people stay woke. It’s been real. It’s been fun ... but it hasn’t been real fun.

A$AP Rocky shows newfound strengths, predictable weaknesses on new album At.Long.Last.A$AP (A.L.L.A)

NAILI MATSCHKE Contributing Writer

The five months we’ve seen of A$AP Rocky’s first solo album present an interesting picture of how this new artist is honing his craft. As an early release this past week, we finally get to see what its 18 tracks have in store, and while there are some things one would have liked to see done better, the album is a very solid release.

The biggest improvement is its remarkable consistency despite its length of over two hours. Each song feels in place, Rocky continues to be able to own whatever beat he’s rapping over and the weak guest appearance, a long and impressive list is Kanye West’s. From the psychedelic haze of “L$D” to the Twilight Zone-esque pizzicato of “Electric Body” to the My Beautiful Dark Twisted Fantasy–worthy maximalism on “Everyday,” just about every beat on this album is at a level you’d expect maybe a handful to reach on a pop-rap release.

This focus on interesting beats does seem to have limited the album’s potential for huge singles, though, which is somewhat unfortunate as they are what Rocky’s strong flow but weak lyrics are best suited for. Nothing really stands out that will garner any excitement from previous hits like “Wild for the Night,” and while it’s certainly not for lack of effort, A$AP Rocky shows newfound strengths, predictable weaknesses on new album At.Long.Last.A$AP (A.L.L.A).

-From Lil Wayne on “M’s” and verses from his debut LP Long.Over.A$AP and the late Pimp C of Underworld Kings (UGK) on “Wavybone.” Not all are stellar, as despite Schoolboy Q’s tight and clever rhymes, his verse on “Electric Body” ends up being “PMW (All I Really Need)” round two but with a deeper message. It’s just not the same, and it’s hard to overstate just how bad Kanye’s verse is on “Jukebox Joint.” Every other featured artist delivers, though, adding to the already very cohesive experience.

Expectations were high for At.Long.Last.A$AP, and I think A$AP Rocky has certainly delivered. His LP is a well written, well-typeset album that is composed of many different areas on campus. In each of those areas I have attempted to make a difference. Those areas of campus include, but are not limited to, the Caltech Center for Cultural Diversity, ASCIT and the Caltech Friends. Since coming to Caltech, I have been one of my most anticipated.

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THE CALIFORNIA TECH

isaac Rodgers

June 1, 2015

A$AP Rocky shows newfound strengths, predictable weaknesses on new album At.Long.Last.A$AP (A.L.L.A)
STAR TREK parody Boldly Go! received well by community at screening

The Caltech community came together on May 28 to watch a staged reading/singing of Boldly Go! (Where No Musical Has Gone Before), a musical parody based on Star Trek. The libretto was written by Caltech Ph.D. student Grant Remmen and his brother, Cole Remmen, an undergraduate at the University of Minnesota, and was directed by Brian Brophy, lecturer in theater-performing and creative arts at Caltech. The cast included undergraduate and graduate students, postdocs and Caltech and JPL staff. The foreword is provided below:

Boldly Go! is a musical of both substance and comedy: a parody built upon the universe of Star Trek. The United Federation of Planets encounters a grave threat from an unknown source. The Starship Enterprise, with its interpid crew of Star Trek characters, we loved creating to capture the spirit of the iconic Star Trek series, while having fun with the sometimes farcical aspects of science fiction and parodying Star Trek, Boldly Go! also satirizes the television genre, which, as any musical aficionado knows, comes with its own set of peculiarities and idiosyncrasies. At its core, Boldly Go! is a story about being true to oneself and one’s convictions, about friendship and love, about discovery and wonder, about the triumph of the individual over adversity and about the joy of sharing with each other this vast and mysterious universe.

Boldly Go! is the first musical created by the Remmen brothers have written, but both have experience writing

music and had a lot of musical training through piano, voice and instrumental lessons. "As a theater major, I have created original devised works, though this is my first foray into playwriting," said Grant. "Cole and I had talked for several years about potentially writing a musical together. We always thought it would be a fun challenge. Along with working to capture the spirit of the iconic Star Trek characters, we loved creating new, original characters that fit into the universe of Boldly Go!,” said Grant.

Cole and Grant started writing the parody in September of 2013 after they saw Star Trek. In the past six months, they have held informal readings elsewhere and a workshop at a University of Minnesota. There has not yet been a full production of Boldly Go!, but the positive reception (as evidenced by the laughs throughout and the standing ovation at the end of the reading) has led to a planned main-stage production to be directed by Brophy at Caltech by the end of the winter term next year.

Grant is a third-year graduate student in theoretical physics at Caltech and plans to pursue a career in research as a professor. He is interested in aspects of theoretical particle physics related to gravity and cosmology.

Cole will be a senior at the University of Minnesota in the fall, with a major in theater arts and a minor in studio art and cinema/ media culture. He will be applying for graduate school in theater with an emphasis in directing.
PHIL MURRAY is now the Head Men’s Soccer Coach and the program’s recruiting coordinator. The hiring of Phil Murray as Head Coach ... for his play on the field, that guy in second won’t be able to catch up.

Despite the string blocking Alan Kleinsasser’s path, that guy in second won’t be able to catch up. Despite the string blocking Alan Kleinsasser’s path, that guy in second won’t be able to catch up.

Murray joined Caltech following a seven-year stint at Division I Fairfield University in Connecticut, where he served as Associate Head Men’s Soccer Coach and the program’s recruiting coordinator and decorator. Murray helped the Stags to a pair of MAAC championships and NCAA Championship appearances while raising the team GPA to over 3.0 in 2012 and 2014. He was selected to the funeral of one of the MAAC’s finest, John Riddle in 2005 with a Bachelor of Science degree in Finance from the University of Florida Sun-Set College in the English FA Youth Premier League and the North American Development Program and participated in the Florida Sun Conference National Championships. Prior to college, he spent four years as a youth professional at Blackburn Rovers FC in the English FA Youth Premier League. Murr...
ANNOUNCEMENTS

ASCIT Minutes

ASCIT Board of Directors Meeting
Minutes for 26 May 2015. Taken by Sean McKenna.

Officers Present: Jay Palekar, Sean McKenna, Kalyn Chang, Annie Chen

Guests:

Call to Order: 12:05

President’s Report (Nima):
- Absent

Officer’s Reports:
- V.P. of Academic Affairs (ARC Chair; Jay):
  - ARC committee signups are up. Find link or
    signups on Olive Walk. Interviews are on
    Sunday.
  - Unicorn advisors: faculty advise
    upperclassmen who will advise
    underclassmen
  - Want to make limited seating class
    registration better.
  - Looking into live grading: professors posting
    grades as they become available on moodle.
- V.P. of Non-Academic Affairs (IHC Chair; Cat):
  - Absent
- Director of Operations (Sean):
  - Making a better system for keeping track of
    ASCIT lights.
- Treasurer (Kalyan):
  - Reminder that clubs are not allowed to be
    reimbursed for alcohol, per institute policy.
- Social Director (Annie):
  - Puppies is canceled. Dodgers game is
tentatively scheduled for June 6th.
- Secretary (Phillip):
  - Absent

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
June 2nd at 12pm in Winnett Lounge.

Meeting Adjourned: 12:25 pm

REMINDER FROM COUNSELING CENTER:

Meditation Mob
(drop-in group for mindfulness meditation) Meets every Tuesday, 12:00-12:50 p.m.
Bottom floor of Winnett

VICE PROVOST’S OFFICE HOURS

Professor and Vice Provost, Cindy Weinstein is holding office hours for graduate and undergraduate students. Professor Weinstein oversees the Council on Undergraduate Education, Caltech accreditation, the Staff and Faculty Consultation Center, Student-Faculty Programs, the Center for Teaching, Learning and Outreach and the libraries. She also has key involvement in diversity matters on campus.

Student Office Hours for Spring Term 2015:

Wednesday, June 3, 12 p.m.-1 p.m.

There are four appointments per hour.

Sign up the day of the meeting starting at
11:30 a.m. in 104 Parsons Gates, Vice Provosts’ Offices (x6339).

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Caltech: How does one measure four years?

BRAD CHATTERGOON
Contributing Editor

Hey, Caltech. As you know, graduation is coming up and what that means for most seniors is that we are hauling it out of here as fast as we can. It’s natural, so let’s look back, reminisce and reflect on what Caltech has been for each of us. While I can’t speak for everyone, I did gather the opinions of several seniors that crossed my path and the responses have been quite varied. To provide an idea of how far apart the worst and best opinions have been, the range starts at “Caltech is the worst thing that has ever happened to me,” and ends with “I’ve been happy with my time here.” As an economist at heart, the thing that I am most interested in is whether my net time here has been more positive or more negative. The only way I can think of to decide is by adding all the positives and all the negatives that have elapsed since first stepping onto campus on Sept. 15, 2011. So let us begin.

The first, and easiest, place to start would be examining the more quantitative data, also known as “anything with a number.”

I am now $200,000 poorer, but I am also 555 units smarter. I have lost four years of my life but, I also earned a position in business school for the next three. I have increased the number of countries I have traveled to by two and the number of languages I am familiar with by just as many. I have written 43 articles for The Tech and have had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have written 43 articles for The Tech and have had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope),

When I first came to Caltech, I was socially awkward, or rather, awkwardly social. I felt that having friends and traveling was non-existent at best and “why would I care about the things that” at worst.

During my time here, despite the odds, I even managed to go through the cycle of love and heartbreak, and while my time was distinctly marked by a lack of belonging to the community, it was also a time for growth.

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Now that graduation is drawing closer, who am I? In an ironic turn I view myself as less "special" and less "smart," but at the same time I am more confident in my ability to get things done. I have traveled to Indonesia and will soon travel to Japan, resolving to continue traveling the world on a yearly basis.

The qualitative aspects are what really defined my time here.

So am I net positive or net negative? I like to think that I have come out net positive, and that’s really all I can ask for.

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The qualitative aspects are what really defined my time here. When I first came to Caltech, I was socially awkward, or rather, awkwardly social. I felt that having friends and traveling was non-existent at best and “why would I care about the things that” at worst.

During my time here, despite the odds, I even managed to go through the cycle of love and heartbreak, and while my time was distinctly marked by a lack of belonging to the community, it was also a time for growth.

When I first came to Caltech, I was socially awkward, or rather, awkwardly social. I felt that having friends and traveling was non-existent at best and “why would I care about the things that” at worst. I am now $200,000 poorer, but I am also 555 units smarter. I have lost four years of my life but, I also earned a position in business school for the next three. I have increased the number of countries I have traveled to by two and the number of languages I am familiar with by just as many. I have written 43 articles for The Tech and have had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article). I have gained 20 pounds (mostly all muscle, I hope), I have written 43 articles for The Tech and had five articles written in response (although all were in response to just one article).
Acquired Taste

Dr. Z

Hey, anything funny happen to you guys this week?

New Guy: Sure man.

Guess I’ll dip into the stash then...

So long and sorry for all the shitty comics.

The real world.

Caltech.

Answers to previous Sudoku

Huh, I wonder what awaits me on the other side. Although I didn’t have the greatest of times here, I’m sure I’ll miss ‘Tech.

Regardless, at the moment I’m just happy to graduate. I’m sure things will get better in grad school.

Answers to previous crossword

Answers to CURRENT crossword

Liz Lawler

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Courtesy of Sam Szuflita

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