Caltech names six distinguished alumni

KIMM FESENMAIER
Caltech Today

Caltech recognizes six of its graduates with the Distinguished Alumni Award, the highest honor the Institute bestows upon its alumni. This year’s recipients highlight the breadth of fields in which Caltech graduates have gone on to become leaders—ranging from cosmology to higher education, and from aerospace to biomedicine.

First presented in 1966, the award recognizes a particular achievement of noteworthy value, a series of such achievements, or a career of noteworthy accomplishment.

The awards will be presented at 11 a.m. on Saturday, May 17, 2014 in Beckman Auditorium on the Caltech campus. More information about each recipient can be found at http://connect.caltech.edu/distinguished-alumni-awards-2014.

JAMES S.W. WONG (PHD ’65)
Chairman, Chinney Holdings Ltd., Honorary Professor of Mathematics, University of Hong Kong

For substantial contributions in mathematics and commercial enterprise, Wong’s extensive scholarly research has focused on oscillation theory of differential equations. As an entrepreneur, he transformed his family business into a leading international investment company.

MARY BAKER (MS ’67, PHD ’72)
President, ATA Engineering Inc.

For pioneering entrepreneurship and leadership in aerospace. Baker founded ATA Engineering Inc., a prominent, employee-owned provider of analysis and test-driven design solutions for mechanical and aerospace systems.

PAUL J. STEINHARDT (BS ’74)
Albert Einstein Professor in Science and Director of the Princeton Center for Theoretical Science, Princeton University

For seminal contributions to theoretical physics and cosmology. Among his many achievements, Steinhardt developed new inflationary models of the universe, advanced the theory of quasicrystals, and discovered the only known naturally occurring quasicrystals.

RICHARD K. MILLER (PHD ’76)
President, Olin College of Engineering

For visionary leadership and commitment to innovation in engineering education for the benefit of society. As the founding president of Olin College, Miller led the creation of a new institution recognized for its unique teaching methods and models.

RICHARD H. SCHELLER (PHD ’80)
Executive Vice President, Research and Early Development, Genentech

For seminal work and leadership in biological sciences. Among his many achievements, Scheller identified mechanisms of neurotransmitter release. Now at Genentech, he oversees the development of basic research into new treatments for human disease.

DAVID E. CHAVEZ (BS ’96)
Principal Investigator and Project Leader, Los Alamos National Laboratory

For his extensive and groundbreaking contributions to chemistry. Chavez created versatile new synthetic compounds and processes that advanced the development of high-nitrogen energetic materials, which are now being used for applications in a wide variety of fields.

Caltech honors six alumni with the Distinguished Alumni Award: (top row from left) James S.W. Wong, Mary Baker, Paul J. Steinhardt; (bottom row from left) Richard K. Miller, Richard H. Scheller, David E. Chavez.

—Caltech Alumni Association

Caltech names six distinguished alumni

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Men’s tennis sweeps Linfield

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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

Surgery technique tested
100% silk screws have been tested to allow fractured bones to heal

Clippers rout Lakers
48-point lead for Clippers, best win for the Clippers so far

Plane search continues
227 passengers on Malaysia Airlines flight lost in Gulf of Thailand

Tensions rise in Crimea
100 armed men occupy military office in regional capital Sineferopol

Starving Syrian refugees
128 refugees starved to death in the Damascus Yarmouk camp

Ozone layer in danger
4 new man-made gases (3 CFC’s and 1 HCFC) found in atmosphere

Suicide bombing in Iraq
34 people killed at security checkpoint in Hilla, south of Baghdad
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

get paid up to $30

ASCIT Minutes

ASCIT Board of Directors Meeting

Minutes for March 4, 2014

Officers Present: Connor Coyle, Catherine Jamshidi, Connie Hsueh, Michelle Tang, Malviya Verma, Monica Enlow


Call to Order: 10:35 pm

Discussion Topics (brought up by guests + BoD):
- Budget Presentation from Monica
- Caltech Cares program: facilitating discussion about Title IX

Officer’s Reports:
- V.P. of Academic Affairs (ARC Chair: Malviya):
  - The ARC + UASH Reps have been having discussions with Dean Kiewiet regarding his petition for academic eligibility requirements. Discussion has been very productive and we have come to agreements on most things. It was seen by the CUE and APC and will likely go to a Faculty Board Meeting in the coming month or so.
  - There will be a Student Faculty Lunch this Tuesday, March 18th. Check your email for details.
  - There is also a GPS Option Tea next Wednesday, March 12th.
  - Planning for the Option Fair early next term is going well.
- V.P. of Non-Academic Affairs (IHC Chair: Connor):
  - The IHC has written a proposal to receive funding for "IHC reunions" third term.
  - Check out the new Hammett Center Lounge! It’s a work in progress, so be patient.
  - Many houses have received new RA’s, so you should go meet yours.
  - WiFi improvement Phase 2 is completed in the North Houses.
  - Meetings with the Ad Hoc Committee on Self-Governance have been going quite well. We’re seeking to increase both the rights and responsibilities of student leaders; we should be holding a town hall discussion sometime third term.
  - April 6th (first Sunday of next term) will be an EsComm training for House leadership. Try to reserve 10-3 for now, we don’t know the exact schedule.
- Director of Operations (Connie):
  - The little f, even if ASCIT helps with the content, will need a business manager to help with advertising and funding. We’ll decide what to do shortly.
  - If you didn’t get a little f this past year (especially fresh), ask your House President! There are extras in Ricketts lounge.
  - There will be a club fair during PiW as usual; if you’re not an officially registered club, make sure you do that soon.
- Treasurer (Monica):
  - Reminder: Every house can receive $500 for their Interhouseparty if they request reimbursements before their party date.
  - Take advantage of the Multihouse Event Budget! You can receive up to $400 for an event between two houses! Talk to your social director(s)!
  - Come to ASCIT to fund your club’s events; we do special event funding throughout the year in addition to the annual club funding.
- Social Director (Michelle):
  - Be a Kid Again was very successful; we went through nearly all of the Girl Scout Cookies and watched Frozen!
  - Trivia Night was last Thursday at Clouse; it will likely continue next term as well.
  - There was an Open Mic Night in Ricketts on Thursday.
  - Ruddock OPU was this past Saturday. The theme was Ancient China.
  - On Sunday, the A Cappella groups performed their “Love Sucks” Concert in Ramo Auditorium. There were also groups from several other schools.
- Secretary (Carl):
  - I sent out a survey to all of the Committee Representatives to get feedback on how everything is going. There are lots of responses so far.
  - Made the Googlecalendar for “ASCIT Events.” I’ll go through and add all third term events over spring break so we can release it to undergrads early next term.
  - Over spring break I’m also going to go through the By-Laws and Resolutions because I’ve identified lots of need for improvement.
  - Most house positions have been added to Donut. I’m waiting on contact information for all club presidents to include club information.

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.

Meeting Adjourned: 11:46 pm
**ASCIT Minutes**

**ASCIT Board of Directors Meeting**

Minutes for February 25, 2014. Taken by Catherine Jasminshidi

**Officers Present:** Conner Coley, Catherine Jasminshidi, Connie Hush, Michelle Tang, Zach Rikvin, Monica Enlow

**Guests:** Conner Rosen, Patrick Nikolov, Elarra Sarkar; Elliot Simon, Chris Dixon, Mateo Martinez, Nima Bidadijnoglu

**Call to Order:** 10:01 pm

**President's Report (Zach):**
- Make sure you vote!

**Officer's Reports:**
- **V.P. of Non-Academic Affairs (IHC Chair: Connor):**
  - The IHC has written a proposal to receive funding for "FCC reunions" third term and plans to submit it to the Deans' Office in the next few days.
  - Check out the Hameetman Center Lounge! It's a work in progress, be patient. The IHC and MJC both met with Joe Shephard to discuss its future.
  - Houses are continuing to receive new RA s, so you should go meet yours.
  - I'm working with Jon Webster and Peter Daily to have a rest-run of open kitchen on the weekend. Details TBA.

**Director of Operations (Connie):**
- Submit to Totems, Caltech's literary and visual arts magazine, for a chance to be published! Send pieces to news@caltech.edu
- Works may be requested to be published anonymously.

**Treasurer (Monica):**
- Nothing to report this week.

**Social Director (Michael):**
- Trivia Night, Open Mic Night, Ruddock OPL, and Love Sacks are coming up this week.
- Formal is in the process of being planned. It will likely take place either at The Langham or The Huntington Gardens.

**Secretary (Cat):**
- I've been working on updating Campus Positions on Donuts.
  - I'm getting information from all the house secretaries.
- I'm also going to put together an "ASCIT Events" google calendar that can be shared with all undergraduates so people have up to date information for events.
- Since very few Committee Representatives have kept us in the loop, I'm going to solicit feedback on how all of the Faculty Board Committees are going. I'll have more for you next week on that.
- One last town hall (Dabney) at 2:00 pm this Saturday

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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.**

**Meeting Adjourned: 11:24 pm**

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**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

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**NEWS**

**MARCH 10, 2014**

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**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! The Y’s mission core values stand on five key pillars: leadership, civic engagement, service, adventure, and perspective. Feel free to attend any of the below programs, or contact us to organize your own!

Upcoming events:
1. **Research and the Outside World: A Discussion with Prof. Harry Atwater**
   - **Science Policy Series**
   - **Wednesday | March 12th**
   - Room 2-153 | Millikan
   - Lunch is provided (priority given to students)
   - RSVP Required
   - Harry Atwater is a Howard Hughes Professor of Applied Physics and Materials Science at Caltech researching photovoltaics as well as optics and plasma physics. He co-founded and served as a technical founder of Alta Devices, which pioneered microwire solar technology. He has also served extensively as a consultant for both technology. He has also served as the technical founder of Alta Devices, which pioneered microwire solar technology. He has also served extensively as a consultant for both industry and government.

   In this discussion-based seminar, Professor Atwater will give insights into these experiences of transitioning research ideas to the real world, as well as working with non-academic institutions on technical issues and instituting change. He will also consider the opportunities and challenges for solar energy in the real world, as well as working with non-academic institutions on technical issues and instituting change. He will also consider the opportunities and challenges for solar and wind energy. The Science Policy Series was made possible with generous support from the Geisinger Holzer Fund. Please RSVP for this exciting event at caltechY.org

2. **Civil Liberties in the National Security Era: What Happened to Edward Snowden?**
   - **Speaker Series (SASS)**
   - **Wednesday | March 12th**
   - Room 1-496 | Beckman Institute Auditorium

   Our national security agencies sometimes see you as a threat, sometimes conscripted into service through federal government demands on their employees for information of all kinds, often backed by gag orders prohibiting them from telling anyone anything about these demands and that you discover illegal activities within their own organizations, they are faced with extraordinary legal and ethical challenges. This event is co-sponsored by the ACLU of Southern California and is free and open to the public as space allows.

   - **Alternative Spring Break – Catalina Island**
   - **March 24th through Thursday, March 27th**
   - Sign up starting Thursday, March 6th at the Caltech Y (spaces are limited) | Cost $150.00 – due when you sign up

   Explore a new place, meet new people, serve a community, and have fun! Join Caltech Students experiencing a non-traditional spring break volunteering out on Catalina Island this year.

   Santa Catalina Island, just off the coast of Southern California, is visited by one million people every year. Scuba diving, snorkeling, and hiking are among popular attractions at the island. Two Harbors, the second resort village on the island, is home to the USC Wrigley Institute for Environmental Studies whose mission is to foster an understanding of the natural world among people of all ages. It features research facilities, housing, a large waterfront area, and it will be our host for our stay.

   This offer you the chance to experience something new, learn about our community and community issues, make new friends… or become closer with some friends you already have, and make a real difference as well.

3. **Book of Mormon – Caltech Y Explore LA Series**
   - **Sunday | April 13 | 1:00 to 4:00pm**
   - Hollywood Pantages Theater
   - Transportation is NOT provided | Sales begin 12:00 Noon or at Decompression, Wednesday, March 5 at the Caltech Y | Cost is $45 each (tickets are limited) | THE BEST MUSICAL OF THIS CENTURY! - Ben Brantley, THE NEW YORK TIMES
   - The Book of Mormon is the winner of nine Tony Awards, including Best Musical. The story is a parody of The Book of Mormon, a religious text, and it will be our host for our stay.

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   - **5. Los Angeles Lakers Game – Caltech Y Explore LA Series - Tickets on sale Thursday, March 13th at the Caltech Y**
   - **Game Time | Staples Center (downstairs LA) | Cost is $45 each (tickets are limited) | For info: students purchasing tickets are permitted to purchase one guest ticket (guest can be a non-student). Explore LA is coordinated by the Caltech Y with generous support from the Master of Student Houses.

   This offer is for students only; students purchasing tickets are permitted to purchase one guest ticket (guest can be a non-student). Explore LA is coordinated by the Caltech Y with generous support from the Master of Student Houses.

   - **6. Make-A-Difference Day – Saturday April 5th**
   - This offer is for students only; students purchasing tickets are permitted to purchase one guest ticket (guest can be a non-student). Explore LA is coordinated by the Caltech Y with generous support from the Master of Student Houses.

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   **7a. Pasadena LEARNs Tutoring**
   - **Wednesday and Friday Week | 3:00 - 5:00pm | Madison Elementary School | Pasadena**
   - Come volunteer at Madison Elementary School in Pasadena!

   We are partnered with the Pasadena LEARNs program at Madison and work with their Science Olympiad teams on Wednesdays and do regular tutoring on Fridays along with occasional hands-on science experiments. Volunteers are limited) | Cost $150.00 – due March 6th at the Caltech Y (spaces are limited) | Cost $150.00 – due March 6th at the Caltech Y (spaces are limited)

   **7b. Hathaway Sycamores Tutoring**
   - **Saturday Week | 1:30-4:30pm | Highland Park**
   - Volunteer at Hathaway-Sycamores, a group that supports local underprivileged but motivated high school students. We are partnered with the Pasadena LEARNs program at Madison and work with their Science Olympiad teams on Wednesdays and do regular tutoring on Fridays along with occasional hands-on science experiments. Volunteers are limited) | Cost $150.00 – due March 6th at the Caltech Y (spaces are limited) | Cost $150.00 – due March 6th at the Caltech Y (spaces are limited)

   **For more information and to RSVP, contact vkkumar@caltech.edu or rachael.daniel@caltech.edu**

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**For any questions, feel free to contact the Caltech Y at (626) 395-6163 or caltechy@caltech.edu**

**To see full version of event listings, please visit:**

http://caltechy.org/lists/ to self-subscribe to announcement lists for upcoming events and sign-up for tickets.
Hey ladies and gents. It's week 10! That's right… we're almost done with term! And thanks to DST changes, we're an hour closer to the end than I realized we'd be… although I wouldn't have minded an extra hour of sleep this weekend. To cope with only getting 11 hours of sleep instead of the usual 12, I've enlisted the help of Fleming freshman Lilly Luo to advise you folks on what's in style during spring. Without further ado, here's Ms. Luo!

Spring is upon us! Although we feel no significant weather differences here in Southern California, we can still welcome the change in season by embracing spring fashion trends.

 Guys:
- Colored pants – Why hide your beautiful legs in baggy jeans when you can show them off in colored slim fit pants? Maroon and grey are two super wearable deviations from blue denim that match anything you'd wear with normal jeans. Khaki is another option for those gents who'd like to try a more subdued look.
- Pocket shirts/tanks – These flamboyant pockets are all the rage now. The key is to make the pocket the center of your outfit. Choose a solid colored shirt/tank with a pocket in a unique pattern that coordinates with the color of the shirt. The pocket is your opportunity to express your personality – what kind of pocket are you? Tribal print (rawr)? Chevron (<>-funky-<>-)? Plaid (classic)? Pick wisely and let the pocket speak for itself.
- Tank tops – We all know springtime is synonymous with tank top season. These shirts are the perfect opportunity to show off those arms you've been slaving away at all winter. Either way, foregoing the sleeves is a great way to welcome the warmer weather.

 Girls:
- Maxi skirts – Once reserved only for those blessed with height, these skirts can now work for anyone. They're ethereal and eye-catching. Choose a length just slightly short of the ground – hem if needed. Go for rayon material if you want it more fitted, cotton if you want it more flowy. Pair the skirt with a simple tank top.
- Button-up collar blouses – These tops gained popularity last spring and they are here to stay. For a preppy look, try buttoning your collarless blouse all the way to the top and then slipping a statement necklace under the collar. Or, for a more relaxed look, undo a few buttons at the bottom of the shirt and tie the ends into a knot for a makeshift crop top.

 Rompers – Playsuits (as the Brits call them) come back in season every spring. They're the casual alternative to a sundress and make the perfect swimsuit cover-up. For daytime, keep the romper playful by choosing a bright print and cinching a woven belt at the waist. For nighttime, make the romper edgier by choosing a dark solid and incorporating metallic in a belt or a necklace.

Spring is the perfect opportunity to put away the neutrals from winter and experiment with color. These colors can be incorporated anyway you can think of – pants, pockets, belts, bling-bling… Although we've been having spring weather all winter, get excited for the official transition to spring!

Rompers and button-up collar blouses are great choices for girls this spring.

-Lilly Luo

Send in your images to totem@caltech.edu by March 17th for your work to be featured in Totem. Images must be at least 300dpi.
The Gobble-Up Stories are fables populated with talking animals and cobbler; kings and queens. These short stories, written by Caltech's Belgian-born English professor Oscar Mandel, offer satire, insights into the human condition, where things are often not as they seem. In the opening scene, for example, we see three groups of learned philosophers draw completely different—and entirely wrong—conclusions after observing an everyday event on the road to a national sages' convention at the university. And on the signature tale, a moth who has painted huge dragon's eyes on her wings becomes the terror of the neighborhood, giving a horribly a heart attack and sending blue jays and schnauzers into headlong flight. In between are moral lessons on hubris, humility, jealousy, factionalism, and even the importance of speaking in complete sentences.

The seventeen scenes contain some one hundred characters brought to life by a cast of nine. Bailey and Klavdia Zemlianova, junior Elizabeth Terlinden as the Poodle, student Utkarsh Mital as the Footman, grad student Kari Hodge as the Queen, and Phoebe Kellogg, daughter of pageboy Steve Bailey for costume changes.) Everything is motivated you to write these stories in the first place? OSCAR: This came about in the 1960s, when I received a letter from a friend. The letter prompted in my mind a story, which turned into the Undergraduate Option, grad students Manan Arya (aero), Kari Hodge (LIGO), and Utkarsh Mital (applied mechanics); staff members Regina Colombo and Douglas Smith; and Phoebe Kellogg, daughter of pageboy Steve Bailey. OSCAR: . . . for a small consideration.

DOUG: Why are we doing this production now? OSCAR: A book is coming out called Otherwise Fables. The book has two other components, which are full-length novellas, and The Gobble-Up Stories. Of which there are: I believe, forty-one. If one did them all, the Undergraduate Option, grad students Manan Arya (aero), Kari Hodge (LIGO), and Utkarsh Mital (applied mechanics); staff members Regina Colombo and Douglas Smith; and Phoebe Kellogg, daughter of pageboy Steve Bailey. OSCAR: . . . for a small consideration.

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February 25, 2014

Today’s Puzzle: Crossword

Across
1. Mark or grade
6. Felt cap
9. Junk email
13. Gathering of witches
14. Anger
15. Solitary
16. Conform
17. Workplace for scientific research
18. Beauty parlor
19. Liberate
21. Reply
23. Illuminated
24. Equivalent
25. Pouch
28. Jump
30. Reveal a hidden identity
35. Front part of a vessel
37. Zealous
39. One of the senses
41. Chills and fever
44. Sweet carbonated drink
46. Rant
47. Military vehicle
48. Ennui
50. Record of golf score
52. Hawaiian garment
53. Pulp
55. Drink flavored with juniper
57. Offspring
61. Indefinite number but not many
65. Large internal organ
66. Regret
68. Conjure up
69. Drama set to music
70. Employ
71. Reddish brown
72. Limited period of time
73. Standard number of strokes for each hole in golf
74. Tendency

Down
1. Evidence of past injury
2. Set of rules, principles or law
3. Ellipse
4. Repulse
5. Involve
6. Steel hand tool
7. Epoch
8. African equine
9. Hit with something flat
10. Field game
11. Pulpy tropical fruit
12. Repair
15. Acquiesce
20. Lieu
22. Large flightless bird
24. Dark green leaves eaten cooked or raw
25. Surge
26. Inert gas
27. Enumerate
29. Assert
31. Castle fortification filled with water
32. Relating to hearing
33. Subdivision of the act of a play
34. Cloth used for military uniforms
36. Low dam
38. Prima donna
42. Combine
45. Photographic equipment
49. Play on words
51. Reduce or dispose of
53. Thick sweet sticky liquid
54. Not at any time
55. Reduce or dispose of
56. Not at any time
57. Storyline
58. Mature
59. Concluded
60. Microbe
61. Oracle
62. Catch with a lasso
63. Related in quality or character
64. Heavy metallic element
65. Not at any time
66. Not at any time
67. Country, initially

Answers to last week’s crossword puzzle from puzzlechoice.com

[www.puzzlechoice.com]
Men’s tennis team pulls off 9-0 victory against Linfield

GoCaltech

The desert suited the men’s tennis team just fine as Caltech swept a 9-0 victory against Linfield in the Friday afternoon match at the Ranch Mirage Resort in Indian Wells.

The Beavers dominated their foes from the Northwest Conference. Caltech dropped just 11 games during singles play in the 9-0 victory.

Of significant note for Caltech’s No. 1 singles player Devashish Joshi, the senior posted his first singles win since his first-year with the program. The senior has played all 55 matches at the top spot and playing countless nationally ranked foes, Joshi put himself in the win column with a 6-2, 6-1 win.

The rest of his teammates followed the captains lead during singles play as Caltech moved above the .500 mark after five matches.

During doubles play Caltech swept the Wildcats in convincing fashion to produce the win.

Caltech 9, Linfield 0

SINGLES
1. Devashish Joshi (CALTECH) def. Micah Roos (LINFIELD) 6-2, 6-1
2. Rushikesh Joshi (CALTECH) def. Kelsey Rosborough (LINFIELD) 6-1, 6-3
3. Sathwick Pathireddy (CALTECH) def. Lukas Kletman (LINFIELD) 6-1, 6-0
4. Ruthwick Pathireddy (CALTECH) def. Tim Hawkins (LINFIELD) 6-4, 6-0
5. Morgan Lebby (CALTECH) def. Nick Konen (LINFIELD) 6-0, 6-0
6. Alex Henny (CALTECH) def. Alex Wuthoff (LINFIELD) 6-0, 6-1

DOUBLES
1. Devashish Joshi and Luka Mernick (CALTECH) def. Lukas Kletman and Kelsey Rosborough (LINFIELD) 8-6
2. Ruthwick Pathireddy and Sathwick Pathireddy (CALTECH) def. Tim Hawkins and Micah Roos (LINFIELD) 8-2
3. Rushikesh Joshi and Morgan Lebby (CALTECH) def. Nick Konen and Alex Wuthoff (LINFIELD) 8-2

Devashish Joshi and Luka Mernick won their doubles match against Linfield, ending with an 8-6 triumph.

-Merger your engineering background with management, communication, and leadership in a professional master’s!

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REWARD: $1000
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CONTACT:
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For more photos, videos, and archives of previous issues, check out the Tech website!

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