

Volume 2 Issue 4, June 2022

CEE's e-Newsletter: Stay informed about the latest news and events.



### **Research Science Institute**

CEE's 39th Annual Research Science Institute (RSI) will be held at MIT June 26 to August 6, 2022, marking the first time it will be held in person since 2019. It has been held virtually for the last two years due to the pandemic. CEE's RSI is a summer science, technology, engineering, and mathematics (STEM) program collaboratively sponsored with MIT that combines on-campus course work in scientific theory with off-campus research in science and technology. This year, ninety-three students will attend and conduct original, innovative research in state-of-the-art university laboratories, hospitals, and corporate research facilities. Students make oral and written presentations based on their research during the last week of the program. RSI is offered at no cost to all students competitively selected to attend. **Mark Kantrowitz**, RSI '84 alumnus and a CEE Trustee, will serve as the 2022 RSI Director. More information is at <https://www.cee.org/programs/research-science-institute>.

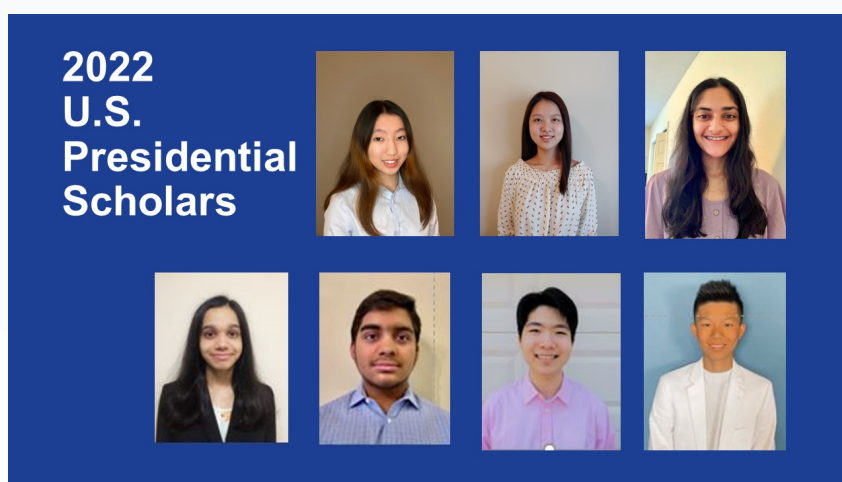


### **RSI Alumna Elected to Harvard's Board of Overseers**

CEE is pleased to announce that **Dr. Lauren Ancel Meyers**, a 1990 alumna of CEE's Research Science Institute (RSI), has been elected to a six-year term to Harvard University's Board of Overseers. Dr. Meyers is the Cooley Centennial Professor of Integrative Biology and Statistics & Data Sciences at The University of Texas at Austin and a member of the Santa Fe Institute External Faculty. She received a BA in Mathematics and Philosophy from Harvard University and a PhD in Mathematical Biology from Stanford University. She has been a pioneer in the field of network epidemiology and

the application of machine learning to improve disease outbreak detection, forecasting and control.

Professor Meyers leads an interdisciplinary team of scientists, engineers, and public health experts uncovering the social and biological drivers of epidemics and building practical tools for the CDC and other global health agencies to track and mitigate emerging viral threats, including COVID-19, pandemic influenza, Ebola, HIV, and Zika. Her research has been published in over one hundred peer-reviewed articles in major journals and covered by the popular press. Professor Meyers was named as one of the top one hundred global innovators under age 35 by the *MIT Technology Review* in 2004 and received CEE's **Joseph Lieberman** Award in 2017 for significant contributions to science.

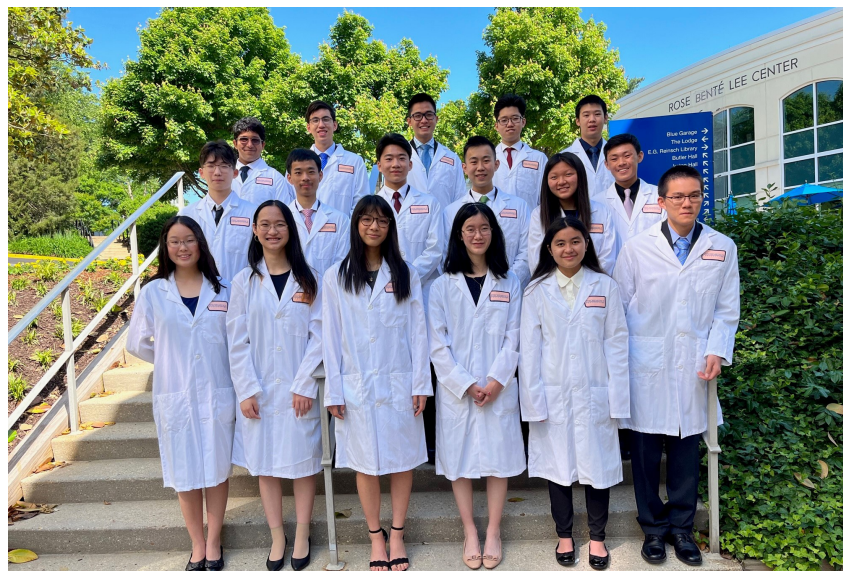


### **RSI Alumni Named 2022 U.S. Presidential Scholars**

CEE announces that seven CEE Research Science Institute (RSI) alumni are among high school seniors named U.S. Presidential Scholars for their accomplishments in academics, the arts, and career and technical education fields. The following RSI '21 alumni are members of the 58th Class of U.S. Presidential Scholars:

- **Alice Z. Guo**, Morgantown, West Virginia - Morgantown High School
- **Yewon Lee**, Madison, Alabama - James Clemens High School
- **Ashini Modi**, Shreveport, Louisiana - Caddo Parish Magnet High School
- **Dheepthi Mohanraj**, Chapel Hill, North Carolina - The North Carolina School of Science & Mathematics
- **Dhruv Bhandarkar Pai**, Potomac, Maryland - Montgomery Blair High School
- **David Ziqi Yan**, Hockessin, Delaware - The Charter School of Wilmington
- **Gary Zhan**, North Logan, Utah - Logan High School

The White House Commission on Presidential Scholars selects honored scholars annually based on their academic success, artistic and technical excellence, essays, school evaluations and transcripts, as well as a demonstrated commitment to community service and leadership. The Presidential Scholars Class of 2022 will be recognized for their outstanding achievement this summer.



## USA Biolympiad

The 2022 USA Biolympiad (USABO) National Finals took place at Marymount University on its Arlington, Virginia campus May 28 to June 8, 2022. The training program focuses on advanced biological concepts and exacting lab skills. Nearly 11,000 students from across the nation participated in the online USABO exam in February through a partnership with Art of Problem Solving (AoPS). Semifinals were held virtually on March 31, and 23 National Finalists were [announced](#) on May 5.

At the USABO National Finals closing ceremony, four gold medalists from USABO's National Finals were announced. They are **Derek Chen**, Belmont High School, Belmont, MA; **Lawrence Long**, BASIS Independent Silicon Valley, San Jose, CA; **Greycen Ren**, Adlai E. Stevenson High School, Lincolnshire, IL; and **Jason Wang**, Marriotts Ridge High School, Marriottsville, MD. At the closing USABO medal ceremony, radiologist **Ravi Kamath, MD, PhD**, (RSI '92) participated as the keynote speaker. More information about the USABO is at <https://www.cee.org/programs/usa-biolympiad>.



## Teacher Enrichment Program

CEE's [Teacher Enrichment Program](#) (TEP) hosts monthly "Square Root of STEM" webinars on the second Tuesday of each month. The webinars explore a variety of topics that illustrate the interdisciplinary nature of STEM and real-world applications of STEM skills. Educators, guidance counselors, students, CEE program alumni, and the public are invited to join in an exploration of how STEM topics and skills intersect with our lives. The next session takes place on Tuesday, June 14 from 6-7 pm ET. The topic is computer science and robotics. Register [here](#). Recordings of previous webinars in this informational series are posted on [YouTube](#).

All TEP resources and professional development events are cost-free to participants. To date, nearly 5,000 teachers from over 1,600 schools have participated. The program has reached nearly 800,000 underserved rural and urban students to encourage their consideration of STEM careers. For more information, visit <https://www.cee.org/programs/teacher-enrichment-program>.



## STEM Lyceums

CEE's STEM Lyceums are cost-free monthly virtual club meetings that engage students in discussion and exploration of STEM concepts and career trajectories. The sessions are provided at no cost to schools or students to nurture their interest in STEM careers. The June Lyceum introduced students to the Internet of Things (IoT) in healthcare. Distinguished speakers included **Carlos Albuja**, Product Manager, Strategy, and Innovation at Amgen, and **Dr. Steve Hershman** (RSI '04), Director of mHealth at Stanford University. A [playlist](#) of the STEM Lyceums recordings is on YouTube.



## CEE's New Series on AI and Machine Learning

Through its network of research scientists and world-class presenters, CEE is offering a webinar series to articulate recent advances in artificial intelligence (AI) and machine learning (ML) to non-experts while also meaningfully addressing core challenges for experienced computer scientists, software engineers, technologists, entrepreneurs, investors, business executives, public policymakers, and ethicists.

The first session took place on June 9 and focused on definitions of and trends in AI. Panelists were **Dr. Jessie Rosenberg** (RSI '01), Science Program Manager and AI Researcher at IBM; **Dr. Michael Mitzenmacher** (RSI '86), Professor of Computer Science at Harvard; and **Shishir Mehrotra** (RSI '95), Co-Founder and CEO of Coda. **The Honorable Clarine Nardi Riddle**, Counsel, Kasowitz Benson Torres LLP, and a CEE Trustee, served as moderator. View the recording [here](#).

Save the date for the second session on June 16 at 12 noon ET. The focus is on the uses of and ethics in AI. Speakers are **Dr. Percy Liang** (RSI '99), Associate Professor of Computer Science at Stanford University; **Dr. Bistra Dilikina** (RSI '96), Associate Professor of Computer Science at the University

of Southern California; **Sean Kanuck**, Esq. (RSI '88), International Attorney and Ethicist; and **Arvind Parthasarathi** (RSI '90) Founder and CEO of Cygnvs and a CEE Trustee. Participants can look forward to a vibrant dialogue. Register [here](#).

## CEE's 2022 Congressional Luncheon

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### CEE's Annual Congressional Luncheon Recap

CEE's Annual Congressional Luncheon was held as a virtual event on Thursday, April 28. STEM leaders in the public and private sectors, friends of CEE, and alumni of the Center's programs heard from Honorary Trustees who are Congressional members and program alumni speak about the importance of science and technology in all educational training and for global leadership. CEE Honorary Trustees **US Senator Jacky Rosen** (Nevada), **US Senator Todd Young** (Indiana), **US Representative Neal Dunn** (Florida), and **US Representative Scott Peters** (California) provided remarks. **US Senator Joe Manchin** (West Virginia) also gave remarks by video. **Dr. Douglas E. Humberger**, President, D.E. Humberger Consulting LLC and a CEE Trustee, moderated. CEE's annual luncheon celebrated 39 years of success and impactful STEM education programs. In case you missed it, view the recording [here](#).

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