Excellence

Center for Excellence in Education

Celebrating 35 Years of Excellence

USA BIOOlympiad

RSI Research Science Institute

TEP Teacher Enrichment Program

The Broad Institute

Cambridge, Massachusetts

October 12-14, 2018

Excellence

Center for Excellence in Education

The Center for Excellence in Education (CEE) was founded in 1983 by the late Admiral H.G. Rickover, Father of the Nuclear Navy and of civilian uses of nuclear power, and Joann P. DiGennaro, CEE's President. They recognized that nurturing careers of excellence and leadership in science and technology in high school and university scholars was an essential investment in the United States' national and global future.

The Center's programs help keep the United States competitive and further international collaboration among leaders of the world. CEE challenges students and assists them on a long-term basis to become the creators, inventors, scientists and leaders of the 21st century.

Funding for CEE began with $250 that Admiral Rickover received for a university lecture. Today, thanks to generous donors and supporters, the Center sponsors three programs that are free of cost for all participants chosen to attend.

The Research Science Institute (RSI) was launched in 1984 and now welcomes 80 of the world's most accomplished high school students for a summer science and engineering program that is collaboratively sponsored with MIT.

RSI Research Science Institute

The USA Biology Olympiad (USABO), launched in 2002, is recognized as the premier competition for high school biology students. It brings 20 finalists to a residential training program from which Team USA is selected for the International Biology Olympiad. The USABO is collaboratively sponsored with University of California San Diego at the UCSD campus.

USA BIOOlympiad

The Teacher Enrichment Program, launched in 2011 with the goal of ensuring a future talented and diverse U.S. workforce in STEM, provides opportunities for rural and urban middle and high school teachers to connect with leading experts in industry and academia. TEP programming is currently available to teachers in California, Florida, Maryland, Pennsylvania, Texas and Virginia, and will be inaugurated in West Virginia in spring 2019.

TEP Teacher Enrichment Program

CEE has partnered with more than 55 countries in collaborative agreements negotiated by Ms. DiGennaro, CEE's President. CEE was the first U.S. organization to receive high school students from the People's Republic of China, India and the Balkan and Baltic nations. The Center organized the first initiative in Saudi Arabia for women to attend university STEM studies with men. RSI has initiated programs in Bulgaria, China, India, Israel, Saudi Arabia and Singapore.

Excellence
Center for Excellence in Education

October 12, 2018

Welcome to the Center for Excellence in Education's 35th anniversary celebration! This is a special weekend. Whether you are an alumnus of one of CEE's programs or a generous supporter or donor who has contributed so that CEE can offer wonderful programming free to participants, thank you for joining us!

The Center is incredibly proud of the accomplishments of alumni.

- The Research Science Institute (RSI), inaugurated in 1984, receives more than 1,500 applications each year from high school students who are hopeful to attend our six-week, on-campus program in collaboration with Massachusetts Institute of Technology. There are nearly 3,000 RSI alumni who continue to make headlines both in academia and in their professions.

- The United States Biology Olympiad began 15 years ago with Team USA competing in the International Biology Olympiad (IBO). Since 2003, each of Team USA's four members has medaled at IBO. USABO is collaboratively sponsored by the University of California San Diego. More than 10,000 U.S. students annually compete for the coveted 20 places in the prestigious USABO finals.

- Our newest initiative is the Teacher Enrichment Program (TEP) which was formed in 2012 and already has impacted nearly 2,500 teachers in nine states and Washington, D.C. TEP programs provide career development opportunities for rural and urban middle and high school teachers to ensure a future and talented diverse U.S. workforce in science, technology, engineering and mathematics (STEM).

Welcome to an amazing weekend!

Sincerely,

Joann P. DiGennaro
President
Center for Excellence in Education

Excellence
Center for Excellence in Education

October 12, 2018

The Center for Excellence in Education for the past 35 years has been at the forefront in developing the next generation of U.S. scientific leaders.

As Chairman of the Center's Board of Trustees, it gives me great pleasure to congratulate Joann DiGennaro and the CEE staff on reaching this milestone celebration! The Center's programming for U.S. high school students is incredibly successful and just keeps getting better and better.

I am impressed with the Research Science Institute, the USA Biology Olympiad and the Teacher Enrichment Program. These programs make an impact far and wide and encourage both students and teachers to delve into STEM topics and ensure the future innovation of the United States.

I am honored to be a part of the Center for Excellence in Education. I strongly support its mission to nurture young scholars to career of excellence and leadership in STEM, as well as encouraging collaboration between and among world leaders.

Here's looking forward to continued success for many years to come!

Sincerely,

Mel Chaskin
Chairman of the Board of Trustees
Center for Excellence in Education

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Admiral H.G. Rickover

Founder, Center for Excellence in Education

Admiral H.G. Rickover, "Father of the Nuclear Navy" and developer of civilian nuclear power, founded the Center for Excellence in Education with Joann P. DiGennaro in 1983.

Admiral Rickover served his country for 63 years in the U.S. Navy, the longest-serving member in U.S. history. He received four stars for his service as a Naval Officer. The quality of the U.S. nuclear navy is a testament to the unique contributions Admiral Rickover made to peace and the security of the nation. He is one of only four people to be awarded two Congressional Gold Medals.

Admiral Rickover was quoted as saying, "Education is our first line of defense – make it strong." He was an advocate for higher standards in science and math education and took issue with what he perceived as the U.S. education system's inability to provide high-achieving students an opportunity to excel. After his retirement from the U.S. Navy, Admiral Rickover was committed to providing outstanding students with the ability to study science, technology, engineering and mathematics through the CEE's Research Science Institute, created in 1984.

Born in Poland, Admiral Rickover came to the U.S. and lived in Chicago in his early years. He was appointed to the Naval Academy in 1922 and graduated with a degree in engineering. He then earned a Master of Science Degree in electrical engineering from Columbia University.

Admiral Rickover authored numerous articles and several books, including: *Education and Freedom; Swiss Schools and Ours: Why Theirs Are Better; American Education – A National Failure; Eminent Americans – Namesakes of the Polaris Submarine Fleet;* and *How the Battleship Maine Was Destroyed*.

"Success teaches us nothing; only failure teaches."
"Optimism and stupidity are nearly synonymous."
– H.G. Rickover

Rickoids of the Year

1984
Kevin Murdock

1985
Karl Rumelhart

1986
Tess Hildebrand

1987
Dallas Wrege

1988
Peggy Hsia

1989
Jed Macosko

1990
Raga Ramachandran
Oliver Rando

1991
Susan S. Lee

1992
Ravi Kamath

1993
Erin Lynch
Josh McDermott

1994
Danile Biss

1995
Bruce Haggerty

1996
Jay Sengupta

1997
Sapan Shah

1998
Jeremy England

1999
Zackary Stone

2000
Nate Craig

2001
Sheel Ganatra

2002
Steve Byrnes

2003
Arup Sarma

2004
Johann Komander
Nick Semenkovich

2005
Huan Liu

2006
Dexian Lim

2007
Christina Chang
Paul Kominers

2008
Varoon Bashykarla

2009
Anjali Balakrishnan

2010
Samih Kabalan

2011
Daniel Pollack

2012
Connor Duffy

2013
Tara Murty
Rajet Vatsa

2014
Kavish Gandhi

2015
David Zhao

2016
Joshua Dong
Kathy Liu

2017
Syamantak Payra

2018
William Ellsworth
Matthew Tan

"You can't go to heaven if you die dumb." - H.G. Rickover

35th Anniversary Weekend Agenda

Friday, October 12, 2018

3 p.m.: Kick-Off, Broad Institute Auditorium

- *Welcome/Greeting: Eric S. Lander, Ph.D., President and Founding Director of the Broad Institute of MIT and Harvard*
- *Opening Remarks: Feng Zhang, RSI'99, Ph.D.; Investigator, McGovern Institute; James and Patricia Poitras Professor of Neuroscience at MIT; Professor, Brain and Cognitive Sciences and Biological Engineering; Core Member, Broad Institute, Developer of Optogenetics and CRISPR Technologies*
- *Remarks: Joann DiGennaro, CEE President*
- *Introduction of Submariners and Naval Reactors Group: Mr. William Becklean, Former CEE Trustee*

4:10 p.m.: The "Admiral Rickover Way" Panel — *Moderator: Admiral William A. Owens, Vice Chairman of the Joint Chiefs of Staff, U.S. Navy Retired; Chairman and Co-Founder, Red Bison Advisory Group, CEE Trustee*

- *Admiral Edmund Giambastiani, Seventh Vice Chairman of the Joint Chiefs of Staff, U.S. Navy, Retired*
- *Mr. William L. Givens, Naval Reactors (NR) Program with Admiral Rickover; Harvard University, Reischauer Institute of Japanese Studies; Former Chairman, U.S. – Japan Trade Competition*
- *Pamela L. Krahl, MD, MPH, Captain, U.S. Navy, RSI'85; Preventive Medicine and Biostatistics, Occupational and Environmental Medicine Residency Program Director, Uniformed Services University of the Health Sciences*
- *Professor Neil Todreas, Naval Reactors (NR) Program with Admiral Rickover; KEPCO Professor of Nuclear Science and Engineering, Professor of Mechanical Engineering (Emeritus) at MIT*

5:35 p.m.: CEE 35th Anniversary Alumni Welcome Reception, *Sponsored by Regeneron*

- *Welcome Remarks: Gina Thomas, Director of Talent Acquisition, Regeneron*
- *Rickoids, VIPs, and Rickover Panelists*

Saturday, October 13, 2018

8 a.m.: Continental Breakfast

8:50 a.m.: Opening Remarks — Joann DiGennaro

9 a.m.: Nobel Laureate Panel — *Moderator: Dr. Scott Kominers, RSI'04, MBA Class of 1960 Associate Professor of Business Administration in the Entrepreneurial Management Unit at Harvard University; Faculty Affiliate of the Harvard Department of Economics; Affiliate of the Harvard Center of Mathematical Sciences and Applications; Associate of the Harvard Center for Research on Computation and Society; Research Economist at the National Bureau of Economic Research; Associate Editor of Management Science*

- *Dr. Wolfgang Ketterle, John D. MacArthur Professor of Physics at MIT; Associate Director of the Research Laboratory of Electronics at MIT; Director of MIT-Harvard Center for Ultracold Atoms; Nobel Laureate 2001, Physics*
- *Dr. Eric Maskin, Adams University Professor, Harvard University; Nobel Laureate 2007, Economics*
- *Dr. Kit Pogliano, Dean of the Division of Biological Sciences, UC San Diego*
- *Dr. Richard Royce Schrock, F G Keyes Professor of Chemistry, MIT Chemistry; Nobel Laureate 2005, Chemistry*

35th Anniversary Weekend Agenda

10 a.m.: Innovation and Entrepreneurship Panel — *Moderator: Amy L. Gowder, Vice President and General Manager, Lockheed Martin; CEE Trustee*

- *Jud Bowman, RSI'98, Founder and CEO, Sift*
- *Rasheed Sabar, RSI'00, Co-Founder & Co-CEO, Correlation One*
- *Daniel Kim, RSI'90, Ph.D., MBA, Founder and Principal, Sweetwater Digital Asset Consulting, LLC*
- *Olgica Bakajin, RSI'91, Ph.D., Chief Executive Officer and Chief Technology Officer, Porifera, Inc.*

11:15 a.m.: Lunch, *Sponsored by Citadel* — *Presentation by Scott Rickard, Chief Data Scientist, Citadel*

12:30 p.m.: Rickover Contributions to Science, Technology and U.S. Submarine Education Panel -- *Moderator: Mr. Bill Becklean, United States Navy, Retired, Naval Reactors, 1959 to 1966*

- *Edson "Tip" Brolin, Former Deputy Assistant Secretary, U.S. Department of Energy, Naval Reactors*
- *Dr. Jack Cook, United States Navy, Retired; Submariner*
- *Dr. Mario Fiori, United States Assistant Secretary of the Army from 2001 to 2004; Submariner*
- *Peter Van Nort, Chairman, Enhanced Energy Group, Naval Reactors*

1:30 p.m.: "CEE Talks" — Alumni discuss Interests, Careers and Research.

3:30 p.m.: Global STEM Policy Panel — *Moderator: Dr. Jake Taylor, Assistant Director for Quantum Information Science, White House Office of Science and Technology Policy*

- *Dr. Aaron Kesselheim, RSI'97, M.D., J.D., M.P.H., Associate Professor of Medicine , Harvard Medical School, Faculty Member in the Division of Pharmacoepidemiology and Pharmaeconomics; Department of Medicine, Brigham and Women's Hospital*
- *Greg Gunn, RSI'86, Founder, Lingo Ventures*
- *Shamit Kachru, RSI'86, Ph.D., Department Chair, Professor of Physics and Director, Stanford Institute for Theoretical Physics*
- *Daniel Dongyuel Lee, RSI'85, Ph.D., Professor, Cornell Tech, Professor of Electrical and Computer Engineering; Samsung Research, Executive Vice President*

6:15 p.m.: Reception, *Sponsored by Two Sigma*

7:30 p.m.: Formal Dinner

Sunday, October 14, 2018

8:45 a.m.: Continental Breakfast

9:30 a.m.: Alumni Meeting

11 a.m.: CEE Luminaries Discussion — *Interview by Admiral Bobby Ray Inman, Former Chairman CEE Board of Trustees, LBJ Centennial Chair in National Policy at University of Texas at Austin Lyndon B. Johnson School of Public Affairs, U.S. Navy Retired*

- *Ben Silbermann, RSI'98, Co-Founder and CEO, Pinterest*
- *Diane Tang, RSI'90, Ph.D., Fellow, Data Mining and Modeling, Google*
- *Lauren K. Williams, RSI'94, Ph.D., Seaver Professor at the Radcliffe Institute and Professor of Mathematics, Harvard University*
- *Feng Zhang, RSI'99, Ph.D., Investigator, McGovern Institute; James and Patricia Poitras Professor of Neuroscience at MIT; Professor, Brain and Cognitive Sciences and Biological Engineering; Core Member, Broad Institute, Developer of Optogenetics and CRISPR Technologies*

2 p.m.: CEE Board Meeting, Trustees Only

J. Hamilton Lambert

Executive Director, Claude Moore Charitable Foundation
First Chairperson, Center for Excellence in Education Board of Trustees

J. Hamilton Lambert has led a long and distinguished career of public service. He was the first chairman of the Center for Excellence in Education (then known as the Admiral Rickover Foundation) and has been honored many times on local and national levels.

The son of a horse trainer, Lambert graduated from high school in 1959 and immediately went to work in neighboring Fairfax County in suburban Washington, D.C., as an assistant map draftsman. He rose through government service and in 1980 become Fairfax's County Executive, a position he held for 10 years while becoming one of the Washington region's most influential power brokers.

The Council of Governments presented him with its Metropolitan Achievement Award for his contributions to the Washington region, while City & State magazine named him one of the top two county executives in the country. A conference center at the Fairfax County Government Center was named in his honor. Lambert also holds the distinction of being to only individual to be awarded the Washingtonian of the Year, Fairfax County Citizen of the Year and Loudoun County Citizen of the Year.

Lambert has received an honorary doctorate in humane letters from George Mason University and he twice has been awarded a commendation by a joint resolution of the Virginia assembly.

After retiring from government work in 1990, he founded J. Hamilton Lambert and Associates and also serves as the Executive Director of the Claude Moore Charitable Foundation.

"When doing a job - any job - one must feel that he owns it, and act as though he will remain in that job forever."
- H.G. Rickover

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Names in Bold served as Chairpersons of CEE.
Current trustees are noted in italics.

Bahia El Hariri

President, Hariri Foundation for Sustainable Human Development
International Medal for Excellence

Born in 1952 in Saida, Lebanon, Bahia Hariri is a highly active personality in the Lebanese political and social life. She has conducted a long educational and professional path in different fields, from education to civil society mobilization to women's empowerment to legislative work and sustainable human development.

Mrs. Bahia Hariri is head of Hariri Foundation for Sustainable Human Development (founded in 1979), an NGO that is a member at the United Nations Economic and Social Council with Special status. The Foundation aims to activate the role of the Lebanese citizen in achieving sustainable human development and empower the underprivileged.

Keen on developing critical social issues especially in education, Mrs. Hariri is a leading example and an active entity in promoting social and human development projects. Since 1992, Mrs. Hariri has been elected a deputy in the Lebanese Parliament and served as head of its Educational Committee. From 2008 until 2009, she was also designated as the Lebanese Minister of Education and Higher Education.

She is a board member in several academic and cultural institutions (such as Lebanese American University and the Arab Thought Foundation), aiming at supporting social fairness and raising the civil community to the highest standards.

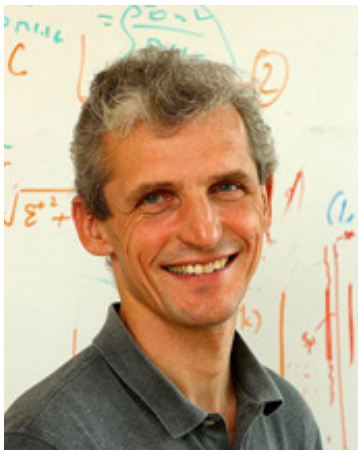
Mrs. Hariri's work also evolves around empowering Arab women. In collaboration with the Arab League and Egypt's National Council for Women, in 2000 she established "The First Arab Women's Summit." She was elected Head of Women's Committee in the Arab Inter-Parliamentary Union and vice-president of the Arab Parliament in 2005. A dedicated champion of woman's rights, Bahia Hariri has consistently promoted the status of women in Arab society, campaigning for the adoption of laws protecting women and helping their emancipation.

On the international level, Mrs. Hariri was appointed as UNESCO Goodwill Ambassador for Arab women and girls (since November 2000), member of board of trustees at the Arab Thought Foundation (since 2002), associate member of the Parliamentary Network on the World Bank (since 2004), and member of the women's advisory committee at the Islamic Development Bank (since 2006).

She has achieved several honors and awards in recognition of her work, including Lebanese Cedar Award at the level of lieutenant in recognition of her service in social and cultural fields, the "Légion d'honneur" awarded by former French President Jacques Chirac. She has been presented the Doctor of Laws honoris causa degree from Dundee University, an honorary doctorate from the American University of Sciences and Technology (AUST) and the Strategic Partnership Award from the Lebanese American University. Mrs. Hariri is a member of the CEE Board of Trustees and sponsors Lebanese students to attend RSI.

Wolfgang Ketterle

John D. MacArthur Professor of Physics
Research Laboratory for Electronics, MIT-Harvard Center for Ultracold Atoms, and Department of Physics/MIT
Massachusetts Institute of Technology
National Medal for Excellence



Wolfgang Ketterle received a diploma (equivalent to a master's degree) from the Technical University of Munich (1982), and a Ph.D. in Physics from the University of Munich (1986).

After postdoctoral work at the Max-Planck Institute for Quantum Optics in Garching, Germany, the University of Heidelberg and at MIT, he joined the physics faculty at MIT (1993), where he is now the John D. MacArthur Professor of Physics. He is a member of the CEE Board of Trustees.

Dr. Ketterle does experimental research in atomic physics and laser spectroscopy and focuses currently on Bose-Einstein condensation in dilute atomic gases. He was among the first scientists to observe this phenomenon in 1995, and realized the first atom laser in 1997. His earlier research was in molecular spectroscopy and combustion diagnostics.

Dr. Ketterle's awards include a David and Lucile Packard Fellowship (1996), the Rabi Prize of the American Physical Society (1997), the Gustav-Hertz Prize of the German Physical Society (1997), the Discover Magazine Award for Technological Innovation (1998), the Fritz London Prize in Low Temperature Physics (1999), the Dannie-Heineman Prize of the Academy of Sciences, Göttingen, Germany (1999), the Benjamin Franklin Medal in Physics (2000), and the Nobel Prize in Physics, 2001, together with E.A. Cornell and C.E. Wieman.

"The man in charge must concern himself with details. If he does not consider them important, neither will his subordinates." - H.G. Rickover

JIMMY CARTER

October 2018

To the Center for Excellence in Education
Leaders and Alumni

Congratulations on your 35th anniversary. I am proud to serve as an Honorary Trustee of this fine organization dedicated to advancing Admiral H.G. Rickover's vision for U.S. leadership in science, technology, engineering and math.

The Admiral never lost his strategic perspective, and he, perhaps more than any other American, has been responsible for the innovations in science, technology and engineering which have guaranteed our security and our nation's freedom.

CEE serves as a great testament to Rickover's values and has continued his legacy for thousands of students over the past 35 years.

With best wishes for continued success,

Sincerely,

Jimmy Carter

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October 13, 2018

CEE 35th Anniversary Booklet

Dear Friends:

It is my pleasure to welcome you to the 35th Anniversary of the Center for Excellence in Education. Hadassah and I regret that we cannot join you this evening.

CEE has been an influential leader in developing programs for students and teachers that enrich STEM education by encouraging leadership and innovation among top STEM students, enhancing STEM teacher professional development, and expanding the pipeline of underserved urban and rural students pursuing STEM careers. The Center has been instrumental in its unwavering commitment to ensure this nation's competitive global position. To date, the Center for Excellence in Education is responsible for two of the most respected scientific enrichment programs in the U.S. The Research Science Institute and the USA Biology Olympiad have afforded young people the opportunity to participate in these world renowned programs to encourage them to be the scientific innovators of the future, free of cost to them.

As CEE celebrates and looks forward to even greater accomplishments, I take pleasure in saying that CEE is a treasure and strong resource that will continue to sustain innovation and to assure this nation's economic growth and security. I would like to thank everyone who has made this event possible, as your generosity and support is truly something that would make Admiral Rickover proud. A special thank you to Joann DiGennaro who has not only kept Admiral Rickover's vision alive, but expanded it beyond what even he could have imagined.

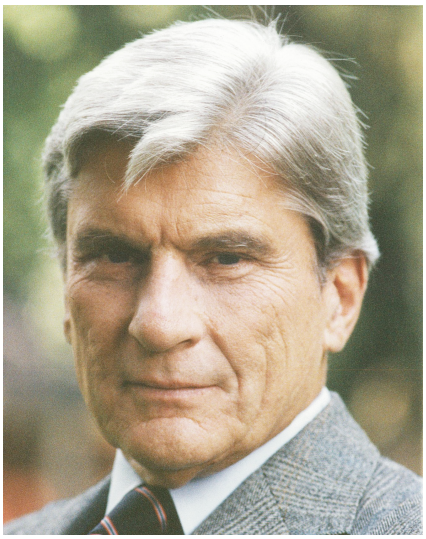
With every good wish for a wonderful evening.

Best regards,

Joseph I. Lieberman
United States Senator

THANKS!

Friends of the Center for Excellence in Education,



The late Admiral H.G. Rickover will always be remembered as the founding father of the use of nuclear energy worldwide. Today, America must continue to have a strong program, working with the men and women of the armed forces, as so many of our ships are powered by his wisdom for the rest of the world to navigate by.

I salute CEE President Joann DiGennaro for carrying forth the Admiral's vision for a life-changing nonprofit organization dedicated to the STEM education so vitally important to our country and world.

Well Done.

John W. Warner

Senator John W. Warner

Sam Nunn
1180 Peachtree Street, NE, Suite 1700
Atlanta, Georgia 30309

September 20, 2018

Congratulations to the Center for Excellence in Education on your 35th anniversary! It was my honor to serve as an Honorary Trustee of CEE, and I salute the Center's legacy of leadership in science, technology, engineering and mathematics (STEM) education.

From its founding by Admiral Rickover and Joann DiGennaro in 1983, CEE's positive impact now extends to Research Science Institute alumni from 50 states and 56 other countries. The Center's USA Biology Olympiad annually engages tens of thousands of U.S. high school biology students, and its Team USA regularly captures top international awards. In addition, the CEE's professional development program for STEM teachers benefits underserved rural and urban students across the country.

The Center for Excellence in Education has been a shining example of American leadership in global STEM education for the past 35 years.

I wish you many more years of Excellence!

Sincerely,

Sam Nunn
U.S. Senator (1972-1996)

Research Science Institute

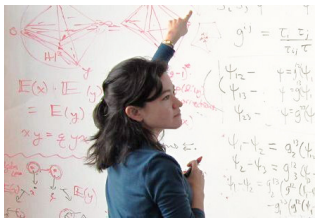
The Research Science Institute was the first U.S. summer science, technology, engineering and mathematics (STEM) program to combine on-campus course work in theory with off-campus STEM research. Students master each step of the research process from literature review to the design, execution and analysis of original experiments.

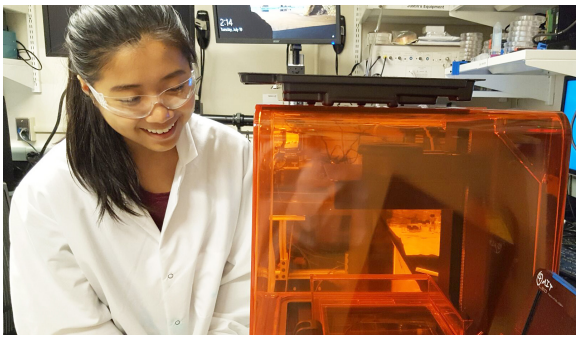
More than 1,500 high school students apply each year to be selected among the 50 to attend college-level classes taught by distinguished professors from leading universities. The RSI Student Selection Committee is comprised of educators, scientists and RSI alumni. Thirty international students also are chosen to attend by their respective nations.

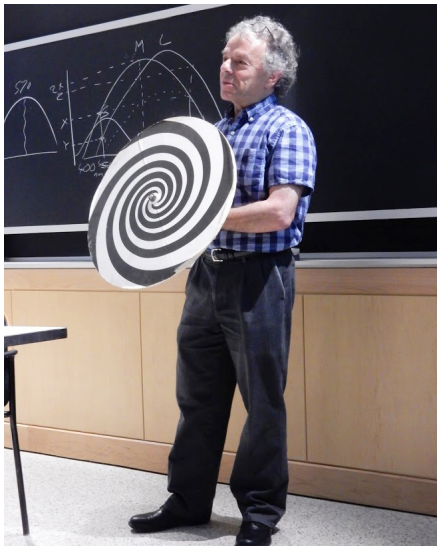
The six-week program is sponsored by CEE in collaboration with Massachusetts Institute of Technology, where RSI is held. Set on campus, RSI has access to distinguished STEM mentors, as well as state-of-the-art university laboratories, hospitals and corporate research facilities.

Since its inception in 1983, RSI has hosted nearly 2,700 students, who each year travel to Cambridge with their eyes on making an impact in the world of STEM.

As with all CEE programs, RSI is free of cost to all participants.







Research Science Institute

Top Oral and Written Presentations

Szymon Acedanski – Using Algebraic Coding for Transferring Files in Peer-to-Peer Networks
Michael Agney – Examination of the Computational Properties of Backpropogation Neural Networks
Khaled Al-Rabe – Characterization of Co(II) Binding to PAMAM G4-NH_2 Dendrimer in Aqueous Solutions Using UV and EPR Spectroscopy
Seth L. Altman – Spectral Analysis of Semiconductor Diode Lasers
Jose Maria Amich Manero – A Novel Regulatory Mechanism of the BMP Signaling Pathway
Walker Anderson – NP-Completeness of the Five Cells Pencil Puzzle
Thilini Ariyawansa – The Development of Multifunctional Nanoparticles for Simultaneous Fluorescence Imaging and Gene Delivery
Sam Backwell – The Structural Effects of Lead Substitution in Bismuth Based High Temperature Superconductors
Jodi Balfe – A Nanosatellite Concept Study: Extrasolar Planet Transit Light Curve Analysis in Search for Earth Analogs
Jared Bass – Job Scheduling to Improve Running Time on a Set of Parallel Processors
Jakub Byszewski – The Game of Vingt-et-un
Sanjay Basu – Protective Effect of Non-Steriodal Anti-Inflammatory Drugs Against Alzheimer's Disease Onset and Progression
Asheesh Bedi – The Analysis of Cerebral Blood Flow Using Single Photon Emission Computed Topography (SPECT) in Presympomatic Huntington's Disease
Oded Ben-David – The Effect of Distance Between Tubes and Pads in LEP/OPAL Hadron Calorimeter
Scott Berger – An Analysis of Charged Particle Distribution from Quark Hadronization in Electron-Proton Collisions
Laurence Bleicher – Double Negative Va24JaQ-Bearing T-Cells as Markers of Non-Progression in Autoimmune Diabetes
Marc Borkan – Surfaces with Spherical Representations
Josh Brankesiek – Bounds on the Size of Sound Monotone Switching Networks Accepting Permutation Sets of Directed Trees
Leigh Marie Braswell – Angles of the Cookie Monster Problem
Kenneth Brewer – The Monoreduction of Diketones and Its Application Towards the Total Synthesis of Kalmanol
Douglas Brown – Effectiveness of the Electro-Acoustical Simulator for Engineers (EASE) in Determining Room Acoustics
Shyamal Buch – An Atomistic, First-Principles Study of N-Doped Reduced Graphene Oxide
Victoria Emily Buckland – Design of an Economic and Passive Daylighting System
Supinda Bunyavanich – The Efficacy of Chitosan and Bentonite in Municipal Wastewater Treatment
Claire Burch – Detection and Characterization of Candidate Exoplanetary Systems Using Gravitational Lensing Events
Kevin Burdge – Holographically Computing the Entanglement Entropy of an Annulus in a Strongly **Coupled Conformal Field Theory**
Jakub Byszewski – The Game of Vingt-et-un
Anni Cai – Determining the Amino Acids Involved in Inhibition of PDE4B by Structurally-Diverse Compounds
Sophie Cai – Guided Search Theory: Exploring a Novel Technique for Demonstrating the Presence of Combined Serial and Parallel Processing in Visual Search
Carolyn Calfee – Allelopathetic Activity of Paeonia officialis
Eric Carmichael – Converting an English Natural Language Processor
Gabriel Carroll – Homology of Narrow Posets
Silvia Casacuberta – On the Divisibility of Binomial Coefficients
Carl Cenik – The Effects of Natural Selection and Mutation on Inbreeding Effective Size
Samidh Chakrabarti – Three Dimensional Image Mapping of Irregular Solids with Active Optical Triangulation

Research Science Institute

Top Oral and Written Presentations

Francesca Y. Chang – Excitotoxicity in Afferent Fibers Innervating Hair Cells of the Lateral Line Organ of *Xenopus laevis*
ZeNan Chang – Genetic Polymorphisms in Meningioma Formation and Progression
Andrew Chanham – Characterization of Phosphotransacetylase in *Clostridium thermocellum*
Prashant Chavarkar – Laser Doppler Anemometry to Map the Flow Field of a Crytosteady Thrust Augmentor
Gardenia Chavez – Improving the Accuracy of a Semi-Implicit Finite-Difference Model for the Shallow Water Equations
Albert Chen – Synthesis of 3-amino-2-alkenoate
Evan Chen – Diagrammatic Computation of Morphisms Between Bott-Samelson Bimodules via Libedinsky's Light Leaves
Sitan Chen – On the Rank Number of Grid Graphs
Phillip Cheng – Qualitative Analysis of Rat Cortical Oligoden-drocyte and Astrocyte Protein Compositions with 2-D Page
Clara-Ann Cheng Ling – Determining Crystal Orientation via Reflection High Energy Electron Diffraction
Jao-ke Chin-Lee – Deafening Silence: Active Noise Cancellation in Human-Robot Speech Interaction
Dave Choltshi – Developing a Protocol for Infrared Cryocrystallograplic Analysis of Carbon-monoxymyogloblin
Yong He Chong – Replacement of the $_{a-}$3 Helix in Za_{ADAR1} with Amino Acids from Z_{aDLM1} and SARS and Binding of Chimera Proteins to Z-DNA
Dawen Choy – Quantum Theory of Neutron Reflectivity
Radoslaw Chrapkiewicz – Synthesizing and Measuring Superconducting Sodium Cobalt Oxide (NaxCo02) Crystals
Eric Chung – Determining the Probability of Boxed Point in n-Dimensional Space
Hannah Chung – Investigation of Graphs Having Identical Path Layer Matrices
Alex Churchill – Self-Reflective Comma-Free Codes
Amy Chyao – Investigations of a Za-Like Peptide Motif in Koi Herpesvirus
Ian Cinnamon – Visual Search with Relative Stereoscopic Depth
Ann Marie Cody – The Parerit Stars of New Extrasolar Planet System Candidates
Michael Colsher – Schur's Problem Reciprocated
Rita Coore – Energy Metabolism in Man
Michael Coulter – Semiconducting Phase-Change Materials
Aimee Crago – Alfalfa Resistance to the Fungal Disease Anthrecnose
Nathaniel Craig – Relation of Equilibrium and Dynamic Properties in Supercooled Glass-Forming Polymeric Liquids
Clare Crawford – Acoustic Impedence of Electrorheological Fluids
Elod Csirmaz – Theory of File Synchronization
Jason Cui – Optimized Droplet-Based Microfuidics for High-Throughput Screening of Adherent *Cells*
Parmita Dalal – Mechanisms by which Lyme Disease and Cancer Invade the Central Nervous System
Rumen Dangovski – *On the Lower Central Series of PI-Algebras*
Rhiju Das – Plasma Electron Streaming Induced by a Few Waves
Mary Davies – Identifying Stellar Counterparts for Short Duration Microlensing Events
Benjamin Davis – Exploration of Self-Avoiding Random Walks in Infinite Grids
Matthew DeBergalis – Design of a Reversible Processor
Laura DeLong – Time Course and Local Specialization of Axonal Development in Tissue Culture
Joseph Dexter – Immobilization and High-Throughput Screening of Zebrafish Using Novel Microfluidic Devices
Manal Dia – Ulam's Problem: A Different Approach
Bistra Dilkina – An Alternative Approach to Information Retrieval Using Multi-Word Terms
Vesselin Dimitrov – Zero-Sum Problems in Finite Groups

Research Science Institute

Top Oral and Written Presentations

Jeffrey A. Doering – Research on the Ranque-Hilsh Tube: Efficiency and Feasibility
Charles F. Doran Jr. – Identification and Differentiation of Magnetic Discontinuities Using Minimum Variance Techniques
Ron Dror – Stream Option Management Generalized to Three Dimensions
Shaaakshi Dube – Atomistic and Continuum Modeling of the Mechanical Properties of M13 Bacteriophage Microfibers
Lia Eggleston – Gravitational Mesolensing: Analysis of Bright, Nearby Events from OGLE
Julia Einbond – The Development of Children's Responses to Questions: A Comparison of English and French
Sandi Eltringham – Canavanine Production By Clover Root Tissue Cultures
Jeremy England – Stabilization and Release Effects of Pluronic Polyols in Proteiri Drug Delivery
Scott Ettinger – Reaching the Canopy: A Preliminary Study
Marshal Everett – The Effect of Moisture on Carbon Fiber Reinforced Polymer Strengthened Concrete Structures
Yale Fan – Adiabatic Quantum Algorithms for Boolean Satisfiability
Lochie Ferrier -- Development of an Optical Autonomous Satellite Identification System
Adam Friedman – Identification of the Transcription Start Site for the Rat Phosphatidylcholine Transfer Protein Gene
Shiv Gaglani – Quantitative Trait Loci Modulate the Size of the Cerebral Cortex
Kavish Gandhi – Minimal Saturated Subgraphs of the Hypercube
Nandini Gandhi – Sensitivity of Polymerase Chain Reaction in the Detection of Heteroplasmy in MELAS
Sahaj Garg – Perception and Interpretation of Dynamic Imagery
Joshua Gewolb – Amino Acid Recognition Specificity of an Acyl-Transfer Ribozyme
Allison Gilmore – A Relation Between the Unknotting Numbers and Almost-Alternating Numbers of Prime Knots
Michael Ginsberg – The Modulation of Optokinetic Nystagmus by Vestibular and Optokinetic Information
B. Girish – Conversion of Satellite Images from the RGB to the HIS Color Coordinate System or Effective Analysis
Bell Glass – A Design Concept of a Multichambered Radial Inflow: (MCRI) Bipropellant Rocket, Engine
Benjamin Goetz – Lorenz Braids
Sara Goldhaber – Tranposon Tn903 Mutagenesis of the *Escherichia coli* Mur Z Gene to Determine the Role of the Gene in Bacterial Cell Wall Biosynthesis
Gil Goldshlager – Characterizing Outerplanar and x-Monotone Thrackles
Philippe Golle – On the Rate of Growth of Metal Monolayers
Meredith Golomb – Ethanol Withdrawal and the Adenosine Receptor
Marcus Gomez – Substrate Stiffness Modulates Cardiac Side Population Stem Cell Symmetric Division and Gene Expression
Jan Gong – The Effect of High Glucose Levels on Morphine Signaling in *Mytilus edalis*: Nevol Implications for the Treatment of Obesity in Diabetes
Shannon Grammel – Ejection Behavior of Hypervelocity Stars in the Presence of Sagittarius A* and the Milky Way Potential
Andrew Marc Green – A Program to Graph Thermal Decomposition Data
Pamela Greene – Electro-Optical Modulation of Laser Light
Jerry Guo – Regulation of Late-Stage Flower Development by Downstream Genes of the Homeotic Protein AGAMOUS
Anvita Gupta – Computational Drug Discovery for Targeting Intrinsically Disordered Proteins
Haley Hagg – *Aspergillus fumigatus* Produces Varying Amounts of the Antiniotic Fumagillin When Cultivated in Different Media
Axel Hansen – Improved Heuristics for Program Continuation in Failure Oblivious Computing
Luke Hansen – Optimization of a Novel Mutagenic PCR Procedure
Brett Harrison – On the Reducibility of Cyclotomic Polynomials over Finite Fields

Research Science Institute

Top Oral and Written Presentations

Neil Hattangadi – Artificial Life Through Adaptive Autonomous Agents
Caleb He – On the Spectral Invariance of Ellipses in Convex, Planar Domains
Douglas E. Heimburger – The Genetic Evolution of Mucins 1, 2. 3. and 5 from Rodents to Humans
Scott Hemphill – Shallow Medical Analysis (SHAMAN): The Feasibility of Applying a Logical Structure to Folk Medicine
Gaelen Hess – Predicting How Electrostatic Forces Bend Asymmetrically Neutralized DNA
Carole Hohwiller – Prototype Detectors for Superconducting Super Collider Spaghetti Calorimeter
Wenxian Hong – Design and Characterization of a Littrow Configuration External Cavity Diode Laser
Ben Horkley – Applying to Moolloy Guided Improvement Algorithm to Automobile Component Selection
Roger Horton – Airfoil Design for a High-Altitude Loiter Aircraft
Edward C. Hsiao – Silicon Beam Purity of the Eaton NV-6200 Ion Implantation System
Susan Hu – Measuring the Size of the X-ray Emitting Accretion Flow onto Sagittarius A*
Tricia L. Huang – Selected Host-Pathogen Interaction Studies with Postharvest Pathogens of Tomato Fruit
Janice Hudgings – The Individuality of Human Footprints
Charley Hutchison – Kinetics and Thermodynamics of Deeply-Supercooled Liquids
Hadass Inbar – Mechanical Properties and Adhesion of the Collagen-Hydroxyapatite Interface in Bone
Brian Jacokes – An Improved Quantum Algorithm for Searching an Ordered List
J.B. Jasiunas – The Use of Power Analysis to Detect Trends in Spotted Owl Populations
Camille Jeanneney – The Effects of Surface Tension on Kelvin-Helmholtz Instability
Lili Jiang – A Theoretical Study into Electronic Properties of Polythiophene and its Functional Derivatives: A 3D Adapted Su-Schrieffer-Heeger Model
Andrew Jin – A Machine Learning Framework to Identify Selected Variants in Regions of Recent Adaptation
Ramesh Johari – Creation of Visually and Physically Realistic Computer Simulated Cockroach Legs
Chloe Joray – Interhemispheric Integration of Shapes in Infancy
Konstantin Kakaes – An Investigation of Kirillov's Problem
Jonah Kallenbach – Characterizing and Identifying Protein Interactions of Intrinsically Disordered Protein
Sean Kanuck – Analysis of Tobacco Plants for Kanamycin-Resistant Gene
Dimitar Karev – Cyber Threat Hunting Through the Use of an Isolation Forest
Or Katz – Detectability Analysis of Gravitatioilal Waves from SN2006gy
Emily Kendall – Effect of Magnetic Ions in a Barrier on Spin Tunneling
George Kerchev – The Structure of the Quotient Ni (An)
Jonas Ketterle – Wireless Sensor Networks and Smart Matericals
Peter Khalifah – A Novel Chemical Method for the In Vitro Genetic Transformation of Zea Mays Pollen
Daniel Kim – A Simulation of Sonar in the Arctic Ice Cap Regions
Lyna Kim – Optimizing the Energy Density of Azobenzene-Functionalized Solar Thermal Fuels via Metallic Phosphate Frameworks
Yo-whan John Kim – Improving Gesture Interface Using Bayesian Network Structure Learning and Non Parametric Modeling
Melissa Klein – Gene Regulation in Transgenic Plants
Jay Koh – Secondary Structure and Buried Surface Area in Proteins
Robert Kotredes – Anti-Aliasing of Images Using Line Sampling
Benjamin Kraft – Entries of Random Matrices
Abijith Krishnan – A Secretary Problem with a Sliding Window for Recalling Applicants
David Kuo – A Comparative Study of Genie and KES: Two Expert-System-Building Systems
Harry Lai – Modeling Chaos in the Earth's Magnetofield
Brian Lamacchia – Computer Simulations of Protein Folding in Two and Three Dimensions
Anne Langley – Clinical and Experimental Aspects of Cancer Research & Treatment

Research Science Institute

Top Oral and Written Presentations

Eric Larson – On Nilpotent Fusion Categories
Gregory Lauer – Computer-Aided Analyses of Offshore Steel-Jacketed Structures
Brian Lawrence – On Finite Groups with m Elements of Order n
Patrick LeClair – Ferromagnetic-Ferromagnetic Tunneling with an Antiferromagnetic Barrier in a High Magnetic Field
Samuel Lederer – The Effect of Chemical Additives on Ice-Spike Formation
Anne Lee – A New Design Guideline of Mixed B-Site Perovskites for Water Splitting
Irwin Lee – Acoustic Behavior of Electroviscous Fluids
Kari Lee – Fuzzy Logic Controllers for Structures
Michael Lee – An Investigation into Gallai's Generalization of Van der Waerden's Theorem on Arithmetic Progressions
Susan Lee – The Evaluation of a Protease from *Trichuris suis* as a Diagnostic Tool for *T. suis* Infection in Swine
Yuri Lenskiy – Re-Analyzing an Optimal Binary Quantam Channel Using Information Theory
John Lesieutre – On a Generalization of the Collatz Conjecture
David Levary – A Novel Approach to Protein Engineering Using Multivalent Cell Surface Interactions
Lauren Li – Clonal Contributions of T-Cell Infiltration in Solid Tumors
Wei-Yen Lim – The Effect of Zearalenone on the Cytotoxicity of Colchicine on Three Human Breast Cancer Cell Lines
Yuhua Lim – Claudin – 18 Function in Gastric Parietal Cell Regulates the Hippo Signaling Transduction Pathway
Da Lin – Evaluation of cis-cis HOONO Production by Laser Photolysis Through Modeling of Reaction Kinetics
Henry Lin – Cool Core Bias in Sunyaev-Zel'dovich Galaxy Cluster Surveys
Margret Lin – The Effectiveness of Electroporation in Transforming Tobacco Plants
Lauren Lisann – RNAi Against Dyslexia Genes Disrupts Neuronal Migration
Joyce Liu – Isolation of $(CAC)_n$, Microsatellite Repeats in Drosophilia DNA
Kevin Liu – Number Fields Generated by Torsion Points on Elliptic Curve
Judy Chii-Wen Liu – The Effects of Spacing of Submarine Propeller Forces/Noises
Kathy Liu – Development of a Metal Halide Chemical Vapor Deposition Process for Photovoltaics and Thin Film Technology
Po-Ling Loh – Closure Properties of D_{2P} in Finite Groups
Leon Low – Lymphocyte Subpopulation and the Genetic Control of Disease Susceptibility to Eimerian Parasitic Infections in B-Congenic Chickens
Peter Lu – Nonequilibrium Dynamics in Cuprate Superconductors Using Transient Grating Spectroscopy
Sophia Luo – Modulating Pro-Inflammatory Marcophage Phenotype Through Re-Polarization b Hyaluronic Acid Nanoparticle Delivery of miRNA
Jonathan Lu – Organized Microphase Separation of Active Spinner Particles in Dense Colloidal Solutions
Lester Mackey – A Combinatorial Proof of Seymour's Conjecture for Regular Oriented Graphs with Regular Outsets $0'_a$ and $0''_a$
Todar Markov – On Extremal Degrees of Minimal Ramsey Graphs
Lisa Marrone – A Novel Function of Lactate Transporter MCT1 in Gastic Restitution
Susan Mathai – Drosophilia Protein Egalitarian Shows Homology to Z-DNA Binding Domain of Human ADAR1
Adam Matthews – The Effect of Nucleosomes on V(D)J Cleavage
Sean Mauch – A Method for Computing Revisit Time of the Lambdasat Satellite Communications System
Shana McCormack – Use of Polymerase Chain Reaction in the Detection of Mycoplasma Genitalium in Saliva
Matt McCutchen – Putting Javari into Practice
Chris Mihelich – On he Structure of a Polynomial Quotient Ring Involving Symmetric Polynomials
Eric Miller – Electrodeposition of YBaCuO Superconducting Films
Yingting Mok – Effects of Glucosamine and Mannosamine on Biosynthesis in Bovine Chondrocytes
Joel Moore – Computer Simulation of Growth Uniformity in Molecular Beam Epitaxy

Research Science Institute

Top Oral and Written Presentations

Tejaswini More – Functional Analysis of zAlk-8, A Novel Type I Receptor, in Zebrafish, Danio rerio
Tomasz Motylewski – Molecular Mechanics Computer Simulations on IBM PC
Eran Mukamel – Photocathode Lifetime Extension for Polarized Electron Injectors
Vikram Nathan – Effects of Fluctuating Rates and Transition State Pathways on Reaction Kinetics Using Single Molecule Analysis
Christie S. Nelson – Angular Transmission Function of Optical Fibers
Kelvin Neu – Preliminary Evidence for a Novel Synovial Fluid Antigen in Human Rheumatoid Arthritis
Gary Ng – The Resolution of Calcium-Binding Proteins by Electrophoresis
Ping Fung Ng – On the Problem of Finding the 27 Tropical Lines on a Tropical Cubic Surface
Joseph L. Ngai – A High Precision Laser Speckle Tracking Technique for Measuring Angular Dynamics: Fiber Optic Cross Correlation
Kristen Nielsen – Spatial Representation in the Normal Visual Field: A Study of Hemifield Line Bisection
Sahar Nissim – The Effect of DNA Conformational Changes on the Regulation of Nitrgoen Utilization in *Escherichia coli*
YI-Ching Ong – Generation of Truncated, Full-Length and Constitutively Active DNA Constructs for zALK-8, a TGF-B Type I Serine/Threonine Kinase Receptor in Zebrafish
Zera Ong – Exercise-Induced Pgc-1α Expression Does Not Lower mtDNA Point Mutation Levels but Downregulates Tyrosine Hydroxylase Expression in the Striatum
Manisha Pandita – Correlation Between Loss of Fixation and Antisaccade Errors in Schizophrenic Individuals
Dhaivat Pandya – Optimal Linear Network Coding for General Connections
Renee Park – The Effects of Atmospheric Turbulence on Simulated Starlight in a Low-Pressure Telescope Environment
Arvind Parthasarathi – Carcinogenic Risk Assessment of Certain Chemicals
Matteo Paris – Grammatical Structure of English Noun Compounds for Implementation in an Augmented Phrase Structure Grammar
Jake Parrott – Kinetic Study of Various First-Order Alkylidyne-Forming Reactions
Tarun Prasad Murali Prasad – Active Learning and its Application in the Analysis of Scientific Data: Predicting Mie Scattering by Nanoparticles
Kalina Petrova – Automating the Neuron Integration in Connectome Construction
Amol Punjabi – Discovering Druggable Binding Sites on Intrinsically Disordered Proteins
Dominik Rabeij – Evaluating and Improving Human-Guided Simple Search with Heuristics
Ram Rajendran – Word-Stem Completion Priming for Novel Words in Global Amnesia
Rageshree Ramachandran – A Simple Chaotic Numerical Model of the El Niño-Southern Oscillation
Sanjay Raman – An Analysis of the Photon Identification Mechanism in CMS 2016 Data
Vivek Raman – Biotinylation Turnover Assay of the A33 Antigen
Oliver Rando – Sphingosine 1-Phosphate, a Compound Involved in Cell Proliferation and a Possible Second Messenger
Antoni Rangachev – On the Solvability of p-adic Diagonal Equations
Rajesh Rao – Epitaxy of High-Temperature Superconductors
Ruchir Rastogi – Hyaluronic Acid-Polyethylenimine Gene Therapy System for Treatment of Inflammatory Diseases
David Ratajczak – Adding HUI to a GUI: An Assessment of Interface Performance Improvements Using Haptic Feedback
Matthew Rauen – On Strongly Multiplicative Graphs
Naomi Reece – Effects of Taurocholate on the Development of WIF-B Cells in Culture
Ashley Reiter – The Hausdorff Dimension of Pascal's Modulo a Prime to a Power
Michael Rengarajan – On the Induction of B-DNA to Z-DNA Conversion by Monoclonal Antibody Z22 Mouse Immunoglobin G

Research Science Institute
Top Oral and Written Presentations

Keith A. Renouard – Comparison of Assorted Superconductors Using Microwave Absorption
Brant W. Richards – Corrosion Evaluation of Nickel Aluminum Bronze Pump Impeller
Lori Rifkin – Regulation of Expression of the First Gene in the Dolichol Pathway of Protein N-glpcosylation in the Yeast *Saccharornyces cerevisiae*: The Effect of Poly (A) Tails on the Stability of ALG7 mRNA
Scott A. Rifkin – Hepatocyte Attachment to Microcarriers and the Development of a Flow System to Measure the Attachment Strength
Dhruv Rohatgi – When Two-Holed Torus Graphs Are Hamiltonian
C. Brian Roland – Characterization and Development of an Apoptosis Assay and its Application to Studies of Apoptosis in Mammalian Cells
Brad Rosen – Surface Modification of Biodegradable Poly (e-caprolactone) Nanospheres: Catonic Nanospheres as a Carrier for DNA
Ian M. Rousseau – Analysis of a High-Temperature Supercritical Brayton Cycle for Space Exploration
Jamie Rubin – A Novel Mislocalization System for Identification of the Spatially Instructive Mediators of Eukaryotic Chemotaxis
Kate Rudolph – Maximizing Packing Densities of Randomly Packed Spheres in High Dimensions
Karl Rumerhart – Design and Creation of a Voice-Controlled Speech Store and Forward System to Facilitate the Editing of Database Files
Laurie A. Rumker – The Effect of Culture Axenicity on *Prochlorococcus marinus* Phage Infection Kinetics
Rasheed Sabar – Integral Products of Laguerre Polynomials and Their Discrete Analogues
Jacob Sanders – Glucocorticoid Regulation of Cell Survival in Normal and Cytokine-Treated Gastric Chief Cells
Evan Scannapieco – Thermal Optimization of the Electron Beam Window Foil Support Structure
Emma Schmidgall – Inferring Surface Lattice Structure from Scanning-Tunneling Microscopy Measurements of the High-Temperature Superconductor $Bi_2Sr_2CaCu_20_8+_8$
Marine Schroer – The Use of Laser-Induced Fluorescence in Distinguishing Between Inks
Alexander Schwartz – On Exact Covering Systems of the Integers and Partitions of Z_n into Translates of Sublattices
Elizabeth Schwartz – Kinetic Investigations of UDP-N-Acetylglucosamine Enolpymvyl Transferase and Its Inhibitor Phosphomycin
Kim Scott – A Partial Characterization of Ehrenfeucht-Fraisse Games on Fields and Vector Spaces
Kathy Seggerson – Thymic T Lymphocyte Phenotypic Shifts in Response to Lipopolysaccharide
Sourav Sengupta – A Comparison of Ganglioside Content and Distribution in Normal Murine Neural Tissue and Murine Neural Tumor Tissue
Sapan Shah – The Role of the GTP-Binding Protein Rac in Oxidative Stress-Induced Apoptosis
Rohini Shivamoggi – Analysis of Clustering in Color-Magnitude Diagrams to Detect Gravitational Microlensing Events
Andrew Shum – Time Correlation Functions, Dynamic Universality and Rare Events in Deeply Supercooled Glass Forming Liquids
Ben Silbermann – Functional Significance of ALG7 as a Tumor Suppressor Gene in Mammalian Epithelial Cells
Anna Kornfeld Simpson – Local Layering of Images with an Efficient User Interface: Improving the Utility of a Novel Graphics Manipulation Technology
Isani Singh – Investigating the Developmental Requirements of Sex Chromosome Genes Affected in Turner Syndrome
Venkatesh Sivaraman – Simplified Audio Production: Live Voice Editing Based on Speech-to-Text Transcription
Christopher Skinner – On the Diophantine Equation: $ap^x+bq^y=c+dp^zq$
Stephan D. Skjei – An Analysis of Calretinin Presence in the Alzheimer's Brain
Kaloyan Slavov – On the Unicity Conjecture for the Hurwitz Equation
Geoffrey Smith – Use of the Linkage Computer Analysis Program to Map the Gene for Thiamine-Responsive Anemia, Diabetes and Deafness

Research Science Institute

Top Oral and Written Presentations

Robin Smith – Effect of High Dose of Creatine on Doxorubicine-Induced Cardiotoxicity
Lawren Smithline – Parallel Processed Singlular Value Decomposition
Adam Snowden – The Effect of Wnt/Beta-Catenin Signaling Inhibition or Oral Sqaumous Cell Carcinoma
Justin Solomon – Extracting Face Shape from Skin Reflectance: Reconstructing Three-Dimensional Face Surfaces and Reflectance Models from Digital Video
Janet Song – Brain Volumetric Measures in Alcoholics: A Comparison of Two Segmentation Techniques
Kannan Soundararajan – On the Behavior of a Sparse Series
Robert Southworth – Consistency Testing to Identify Errors in Weather Data
Galin Stalov – Fermat-Euler Dynamics
Lauren Stephens – Bounds on the Relative Sizes of Sumsets
Daniel C. Stevenson – Electrochemical Deposition Simulated by Generalized Diffusion Limited Aggregation
Hristo Stoyanov – Cryptographically Secure Detection of Mirror Worlds
Rahul Subramaniam – Investigation of a Novel Medication for Treatment of Multiple Myeloma
Marissa Sumathipala – Network-Based miRNA-Disease Model for Enhancing Drug Discovery
Jae Ho Synn – Interfacing the Lecroy 3500 Data Acquisition System
Jie Tang – On the Properties of Protection Systems in Finite Random Networks
Junger Tang – Design and Implementation of a Neural Network for the Evaluation of Protein Secondary Structure Prediction Using the DSSP and Chou-Fasman Algorithms
Luke Tang -- Finite Range Couplings in a Tensor Renormalization Group Approach to 2D Classical Lattice Models
Aaron Tievsky – The Decomposition of Integers as the Sums of Squares in General Number Fields
Nilesh Tripuraneni – On the Reletivistic Generalization of the Navier-Stokes Equations to Quark-Gluon Plasmas
Karolina Trocka – Changing the Substrate Specificity of PDE7B by Mutation and Selection in Schizosaccharomyces pombe
Jennifer Walsh – Searching for the Oldest, Most Metal-Poor Stars in the SkyMapper Survey
Svetla Tzenova – Tyrosine Receptor Kinase C in a Subset of Cultured Cortical Neurons
Dennis Ugolini – Effect of Annealing on High-T_c Superconductors
Max Uhlenhuth – Visual Searches of Natural Scenes
Dmitry Vaintrob – A Relationship Between Hochschild Cohomology and the Goldman Bracket for Compact Oriented Two-Dimensional Manifolds
Debra Van Egeren – Synthesis, Characterization and SERS Functionalization of Hollow Gold Nanoparticles
Vera te Velde – Determining the Effect of Diffuse X-ray Emission on Point Source Detection
Sara Volz – In Vivo Targeted Mutagenesis in Saccharomyces cerevisiae: Increasing Point Mutation Rates at Selective Double-Strand Break Repair Sites
Marina Voulova – The Boundaries of a DNA-Binding Domain as Defined by Proteolytic Digestion
Bobby Xu – Neural Basis of Inhibition: A Study of Antisaccades using fMRI and MEG
Iris Xu – The N-Glycosylation Status of E-Cadherin Controls the Intercellular Adhesion in A253 Cells
Anne Wang – Development of a Multiplex Lumniex Immunosandwich Assay for Asesing Total SRC Protein and Phosphorylation Levels in Cancer Cell Lines
Frances Wang – Determind of Lipid: Water Partition Coefficients for Acetylcholine Receptor Imaging Candidates By Ultraviolet Spectros-copy"
Ivy Wang – Determination of the Intrinsic Rotational Period of Jupiter with Ulysses
Kelvin Wang – Homomesy in Minuscule Posets
Lee Hug Wee – Inhibition of Human Ovarian and Breast Cancer Cell Growth by Telomere-Specific DNA
Josanna Weeks – The Impact of Power Histories and Initial Gas Pressure on Fission Gas Release in High Burnup Nuclear Fuel
Dena Weinstein – Use of DNA Probes to Identify Hybrids Between Partially Self-Incompatible Alfalfa Plants
Kenneth Weinstein – A New Model for DNA Fragment Assembly

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Top Oral and Written Presentations

Linda Westrick – Investigations of the Number Derivative
Stephen Wilgus – Precision Measurement in Muon Drift Chambers for the Superconducting Supercollider
Elizabeth Williams – Visual Search: A Novel Psychophysics for Preattentire Vision
Lawrence Wilson – Communications Efficiency as an Extremal Problem in Graph Theory OR Decreasing Communication Time Through a Wise Arrangement of Communication Links
David Wu – Nonuniform Distributions of Patterns of Sequences of Primes in Prime Moduli
Jessica Wu -- Claudin-18 as a Tumor Suppressor for Gastric Cancer in Mice
Woon Teck Yap – Synthesis of a New Ligand: N,N'-trans-bis-(tert-butyl)-9,10-dihydro ethano-anthracene-11,12-dimethanamine
Michelle Yakubek – Quantitative Analysis of Diachronic Characteristics in Beowulf and Other Old English Poems
Debbie Yeh –Tissue Distribution of Low Molecular Weight Human Salivary Mucin, MUC7, Gene Expression
David Yin – Titania Nanatubes for Solar Energy and Catalysis
Cahnning Yu – Modifying an Existing English Natural Language Interface to Process French
Jirundon Yuvaniyama – The Molecular Biology of Gaucher's Disease
Kristine Zhang – Fracture Mechanics of Monolayer Molybdenum Disulfide Using Molecular Dynamics
Timothy Tan Zhen Xin – Efficacy of Taxoid Nanoemulsions Against Mouse Pancreatic Cancer
Ning Zhou – Quantitative Trait Loci: Modulating Corpus Callosum Size in the Mouse Brain
Monib Zirvi – Discourse Analysis
Corinna Zygourakis – Mapping Genes that Moderate Cerebroventricular Enlargement

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Sindy Tan
Bartosz Tarnawski
Devan Tisdale
Karolina Trocka
Mariela Villarreal Brito
Sara Volz
Michael Wallace
Jennifer Walsh
Maxwell Wang
Rick Wong
Catherine Wong
Kaiyuan Yang
Wan Qian Yang
Kimberley Yu
Cindy Zhao
Kathleen Zhou
Chenye Zhu
Daniel Zuo

2013

Salam H. Al-Abdullatif
Mohammed A. AlDajani
Ebrahim Aljohani
Jose Maria Amich Manero
Lachlan Arthur
Steven Ban
Archis R. Bhandarkar
Leigh Marie Braswell
Phoebe Cai
Ali Cakal
Stanley J. Cen
Evan Chen
Steven W. Chen
Jia Yi Joan Chew
Molly Cinnamon
Alexander Clark
Jason S. Cui
Mikolaj Cup
Rumen R. Dangovski
Jon Luca DeCaro
Stephanie Ding
Philip Frick
Zijing "Michael" Gao
Rim R. Ghadir
Noa Glaser
Lydia Goldberg
Marcus V. Gomez
Wassim F. Hage Chehade
Helena Harris
Qingyang "Annie" Hu
Jinghui Huang
Claudia Huang
Ravi Jagadeesan
Nishant Jain
Nathanael Y. Ji
Chloe J. Joray
Yerin Kim
Nikhil K. Kunapuli
Frederick Lee
Catherine Y. Li
Jonathan Li
Eric H. Li
Kit Mark Lim
Nicole T. Lim
Tammy T. Lim
Pawel Matryba
Neel Mehta
Fredric Moezinia
Isabella M. Morgan
Georgia E. Murray
Tara Murty
Gerard Orriols
Rohil R. Prasad
Rahi D. Punjabi
Raj K. Raina
Divya Ramakrishnan
Elaine C. Reichert
Keyuree K. Satam
Mehmet Tugrul Savran
Steven C. Schmatz
Tarek F. Senjab
Sarah L. Shader
Jinglin Shan

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Eli Shayer
Jessica Shi
Rachit Singh
Albert B. Soh
Anand Srinivasan
Bertrand A. Stone
Nickolay E. Stoyanov
Min Ji Suh
Anna Thomas
Rajet Vatsa
Yuxing (Jocelyn) Wang
Elisabeth A. Werner
Chun Jie Wong
Jon Y. Xia
Jingjing Xiao
Richard B. Yip

2014

Sally M. Akaoui
Mara Al Jardali
Abdulrahman Alhamdan
Ali AlShehry
Ersin Arioglu
Niranjan Balachandar
Szymon Baluszek
Jordan T. Benjamin
Ylvali Busch
Michelle Campeau
Helena Casademunt
Andrew Chen
Michael P. Connors
Mingkai Deng
Valerie Ding
Zachary Effman
Lochie Ferrier
Enrico Fontana
Kavish Gandhi
Maya Ganesan
Petar Gaydarov
Berfin Gogercin
Xin Rong Goh
Noah Golowich
Angela J. Gu
Anvita Gupta
Sarah B. Hamerling
Christopher Hillenbrand
Liu Hongzhan
Nicholas M. Hougland
Matthew Z. Huang
Andrew C. Jin
Jeewoo Kang
Theodore R. Katz
Lev H. Kendrick
Shashwat Kishore
Girish Kumar
Kriti Lall
Cheng Lu
Jonathan Mackaman
Yelena Mandelshtam
Alexander Mayorov
Heba Naffah
Shyam Narayanan
Lachlan Oberg
Richard Ouyang
Dhaivat Pandya
Gerard Pascual-Lopez
Bovey Rao
Ruchir Rastogi
You Jin Reo
Guifre Sanchez Serra
Karan Sarat
Luc Schnell
Joshua Segaran
Michael Shao
Sola S. Shirai
Emma Sloan
Meera R. Srinivasan
David W. Stoner
Hristo Stoyanov
Sofia M. Svensson
Naomi S. Sweeting
Farita Tasnim
Peter Tian
Fan Shuen Tseng
Abhinav Venigalla
Christopher L. Wang
Jenny Wang
Kelvin Wang
Maxmilian A. Wei
Chin Ying Wu
Jessica Wu
Shangzhou Xia
David Xu
Catherine Xue
Daniel Yang
Phillip Yu
Dekel Z. Zeldov
Ingrid Zhang
Jesse T. Zhang
Jiren Zhu
Yazeed K. Zoabi

2015

Haneen R. Al Khalili
Ahmed A. Albahhar
Faisal Y. Alsalloum
Khodr H. Badih
Neehar M. Banerjee
Matheus E. Batinga
Haydn Bradstreet
Victoria E. Buckland
Claire B. Burch
John Chapman A. Caddell
Anthony L. Cheng
Amy A. Chou
Jonathan D. Chow
Jake Cui
Aya M. Daouk
Disha Dasgupta
Anne B. Davis
Tony Ding
Ramya A. Durvasula
Baris Ekim
Brandon R. Epstein
Selena C. Feng
Luana J. Ferreira
Cher Ying Foo
Sahaj Garg
Kristian G. Georgiev
Pol Gomez Riquelme
Thomas A. Graul
Brian H. Gu
Dylan H. Hendrickson
Adrian E. Hindes
Vivian Huang
Meena Jagadeesan
Ajay Jain
Anirudh Jain
Emily C. Jia
Sule Kahraman
Louie D. Kam
Robert Q. Kao
Yo-whan (John) Kim
Liam B. Kimel
Abijith Krishnan
Allen J. Lee
Brian J. Lee
Paul S. Lee
Jiaqi Li
Christina Y. Li
Wilbur Y. Li
Olivia Y. Long
Anton C. Moller
Hoang-Thi Morselli
Sarayu J. Narayan
Nicole Odzer
Marti Oller Riera
Suzanne B. O'Meara
David Oort Alonso
Natalia M. Pacheco-Tallaj
Marion W. Pang
Jungyeon Park
Amol D. Punjabi
Yan Hsien Quah
Sarvasva Raghuvanshi
Sanjana J. Rane
Uma Roy
Mana Shams Latifi
Ming Hui Melodies Sim
Venkatesh S. Sivaraman
Elijah B. Stanger-Jones
Hristo S. Staykov
Jerzy K. Szuniewicz
Chuang K. Tang
Jared A. Tramontano
Sreya Vemuri
Albert Z. Wang
David H. Xiang
Michelle D. Xu
Xiangqi Yan
Alexander Y. Yang
Michael C. You
Casey H. Zhang
Kristine A. Zhang
Yue Zhang
David Y. Zhao

2016

Rakan Albarghouty
Fares S. Alshehri
Jessika Baral
Alexandra A. Berg
Foster Birnbaum
Naveena A. Bontha
Pawel A. Burzynski
Sichen (Shawn) Chao
Benjamin Y. Chen
Jenning N. Chen
Clara-Ann Cheng
Matthew J. Craigie
Dhweeja Dasarathy
Ashwin N. Datta
Adithya Dattatri
Angela Deng
Rawan M. Diab
Andy K. Dienes
Tom J. Dienes
Joshua Dong
Lia G. Eggleston
Ghina M. El Darazi
Steven T. Elliott
Joseph R. Feffer
Tolson K. Frantzen
Mihir T. Garimella
River C. Grace
Caleb He
Chih Ying Ho
Joel Jun Han Hong
Seung Hyun Hong
Yilin Huang
Anis D. Ismail
Dona-Maria R. Ivanova
Krithika S. Iyer
Morgan E. Kane
Zeynep Karacan
Dimitar N. Karev
Ryan K. Kim
Viney Kumar
Jiwoo Lee
Yuhua Lim
Kathy F. Liu
Magalí Luna
Raphael I. Mahari
Gabriel L. Mintzer
Marc Montalbo Burges
Prathik Naidu
Chen Lin Ng
Jan Olivetti
Adam A. Pahlavan
Arundhati Pillai
Omer R. Prives
Kalyani Ramadurgam
Asha Ramanujam
Nolan M. Reilly
Sonia M. Reilly
Dhruv W. Rohatgi
Berke Saat
Nicolas R. San Miguel
Kavita A. Selva
Dina M. Shehata
Nishita Sinha
Adam B. Snowden
Varsha R. Sridhar
Aarohi Srivastava
Avi Z. Swartz
Chaoqun Tao

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Xuan Rong Thong
Pranav A. Upadhyayula
Sushil B. Upadhyayula
Divya Vatsa
Mukund Venkatakrishnan
Elias W. Waagaard
Anushka Walia
Jeffrey M. Wang
Jennifer R. Xiao
Emily Z. Xie
Helen J. Xu
William Yin
David Zhu

2017

Abdulelah S. Alkhamis
Musab A. Almajnouni
Mythri Ambatipudi
Arushi Arora
Sidhika Balachandar
Salim Ballouz
Matthew S. Bauer
Ratip Emin Berker
Sílvia Casacuberta
Shrikant Chand
Avi J. Cohen
Arnob Das
Rohan Deshpande
Flavia Dumitrascu
Amy Dunphy
Michael A. Fein
Elizabeth Fitzgerald
Winston Fu
Isabel O. Gallegos
Samaksh A. Goyal
Rami B. Hafez
Ruobin Han
Kylie Y. Hansen
Oishi Hawlader
Charley R. Hutchison
Ivan D. Ivanov
Rucha Joshi
Keerthana Kasi
Ga-eun Kim
Anne L. Lee
Jordan J. Lee
Anqi Li
Johanna S. Lidholm
Viktor K. Lövfors
Sophia J. Luo
Sydney L. Marler
Joshua Marsh
William F. McInroy
Daniel Michael
Begüm Ortaoglu
Tanya I. Otsetarova
Dhruvik S. Parikh
Advait A. Patil
Syamantak Payra
Thanushi R. Peiris
Alan E. Peng
Indumathi Prakash
Matthew Radovan
Agnes S. Robang
Joel Romero Hernández
Julian A. Rubinfien
Ghina H. Sabbagh
Aleix Seguí
Michelle C. Shen
Harshal K. Sheth
Isani Singh
Erin Smith
Daniel J. Stein
Marissa Sumathipala
Sophia Sun
Timothy Tan
Utkarsh Tandon
Andrea Y. Teo
Jacob Teo
Grace M. Tian
Michael N. Truell
Grzegorz E. Uriasz
Vinjai Vale
Julius R. Vering
Franklyn H. Wang
George Wang
Zoe Weiss
David X. Wu
YuQing Xie
Michelle Yakubek
Michael J. Yan
Karthik Yegnesh
Qianqia Zhang
Hannah H. Zhang

2018

Harshal Agrawal
Zaid Albarghouty
Yosef Alsuhaibani
Divya Amirtharaj
Walker Anderson
Sepehr Asgari
Sebastian Baez
Macinley Butson
Anjali Chadha
Yatin Chandar
Anika Cheerla
Alexander Cheng
Jiwon Choi
Naveen Durvasula
Sean Elliott
William Ellsworth
Karen Ge
Albert Gong
Kayson Hansen
Kaiying Hou
Hazem Joueidi
Chantal Kander
Aknazar Kazhymurat
Sarah Kennedy
Hangyul Lyna Kim
Jack Knickrehm
Jonathan Ko
Chavdar Lalov
Simon Lam
Jing Wesley Leong
Lauren Li
Qingfeng Li
Aditi Limaye
Benjamin Liu
Bowei Liu
Gabrielle Liu
Kevin Liu
Jonathan Lu
Anushka Nair
Jing Ni Ng
Hassan Osman
Roshni Padhi
Liam Parker
Nikolaj Pashov
Siona Prasad
Tarun Prasad Murali Prasad
Yuan Qui
Sanjay Raman
Eshika Saxena
Rachel Seevers
Shasvat Srivastava
Rahul Subramaniam
Vignesh Subramaniam
Javen Yih Ruay Ran
Matthew Tan
Yong Yi Tan
Faith Kai En Teo
Evan Vogelbaum
Anderson Walker
William Wang
Roshan Warman
Catherine Wu
Mason Xiao
Charles Xu
Guanpeng Xu
Anusha Zaman
Sara Zangi
Nader Zantout
Saba Zerefa
Phyllis Zhang
Howard Zhong
Claire Zhou
Alan Zhu
Roanna Zou

Research Science Institute

Nations Reperesented at RSI

Albania
Argentina
Australia
Bosnia & Herzegovina
Botswana
Bulgaria
Canada
Chile
Czech Republic
Egypt
France
Germany
Greece
Hungary
India
Ireland
Israel
Italy
Jamaica
Jordan
Kazakhstan
Kuwait
Lebanon
Lithuania
Mexico
Montenegro
Morocco
Namibia
Pakistan
People's Republic of China
Phillipines
Poland
Qatar
Republic of Korea
Romania
Russia
Rwanda
Saudi Arabia
Scotland
Serbia
Singapore
South Africa
Spain
Sweden
Switzerland
Taiwan
Thailand
Turkey
United Kingdom
Venezuela
Vietnam

"Sit down before fact with an open mind. Be prepared to give up every preconceived notion. Follow humbly wherever and to whatever abyss nature leads or you learn nothing. Don't push out figures when facts are going in the opposite direction."
- H.G. Rickover

USA Biology Olympiad

The United States Biology Olympiad (USABO) began in 2002 and is a four-tier competition that demands the very best of students' biology knowledge. The top four students from this annual competition earn selection to Team USA for the International Biology Olympiad (IBO). The mission of the USABO is to encourage excellence in biology education throughout the United States and and challenge students and their teachers to reach the gold standard in biology.

More than 80,000 high school students have participated in USABO since it was created. In 2018, nearly 10,000 students from 47 states registered to take the initial open exam, which is open to any U.S. high school biology student in a registered school. The top 10 percent of the Open Exam advance to take the Semifinal Exam and the top 20 semifinalists are selected to attend the USABO National Finals at the University of California San Diego.

The National Finals consists of two weeks of intensive theoretical and practical tutorials, where students work with leading biologists while residing on campus. At the conclusion, students take a Theoretical Exam and four Practical Exams to compete for one of the four places on Team USA.

Since 2003, each member of Team USA has medaled at the IBO, and on eight occasions each of the four team members has won a gold medal. The 2007, 2011 and 2013 teams were ranked No. 1 in the world. As with all CEE programs, USABO is free of cost to all participants.

USA Biology Olympiad Finalists

2003

Kay Aull
Yicheng Chen
Mattie Fitch
Elizabeth Fouts-Palmer
Caitlin Golden
Bradford Hargreaves
Kelley Harris
Allison Hoy
Kristin Hughes
Alina Iarve
Si Hyun Kim
Victor Li
Robert Moffatt
Maureen Murphy-Ryan
Corinne Pender
Hari Prabhakar
Phillip Steindel
Nakul Vyas
Michael Xiang

2004

Kay Aull
Mikhail Belyaev
ZeNan Chang
Adam Chmelynski
Alexandra Denby
Ruwan Gunaratne
Clinton Hansen
Steven Hao
Bradford Hargreaves
Kelley Harris
Ryan Jamiolkowski
Benjamin King
Christopher Krueger
Michael Oh
Craig Schindewolf
Wei Xie
Larry Wang
Jingyuan Wu
Robin Zhou

2005

Megan Beems
Parisa Chavoshi
Grace Garcia
Steven Hao
Jonathan Kent
Christopher Krueger
Jessica Lacy
Allen Lin
Eric Mukherjee
Michael Oh
Corinne Pender
Joseph Perla
Craig Schindewolf
Mary Schnoor
Daniel Shanin
Mark Shteyn
Xiao Wei
David Yang
Zhengyang Zhang
Bob Zheng
Robin Zhou

2006

Jawon Breed
Neeraj Edward
Gerardo Flores
Ylaine Gerardin
Curtis Hansen
Meng Xiao He
Robert Hung
Allen Lin
Jimmy Ma
Angelo Mao
Jose Ordovas
Kai Qiu
Julia Rogers
Abigail Schiff
Andrew Shie
Bing Xia
Jessica Wang
Victoria Wong
Jason Wu
Jiang Yio

2007

Alexandre Boulgakov
Zachary Frankel
YingYu Gao
Francois Greer
Yin-Zen (Johnny) Hwang
Margarita Krivitski
Meng Xiao He
Ping He
Jun Kim
Seungsoo Kim
Benjamin Lee
Jonathan Liang
Barry Liu
Asad Moten
Annie Ouyang
Julia Rogers
Andrew Shie
Mark Shteyn
Damon Wang
Helen Yang
Jingkun Yang

2008

Judy Baek
Alexandre Boulgakov
Jonathan Gootenberg
Alexandra Hanin
Winthrop Harvey
Michael Hirshleifer
Kenneth Hu
David Huang
Yunxin Jiao
Seungsoo Kim
Maria Krupenkin
Yoonjoo Lee
Jonathan Liang
Surya Nagaraja
Shu Pang
Tingwei Tsai
Katherine Xue
Lyndon Zhang
Kaili Zhou
Michael Zhu

2009

Judy Baek
Erica Chung
Marino Di Franco
Jonathan Gootenberg
Kuang Hua Guo
Alexandra Hanin
Winthrop Harvey
David Huang
David Huang
Alvin Jeon
Seungsoo Kim
Maria Krupenkin
Yang Li
Jonathan Liang
Eric Liaw
David Park
Antonia Rubell
Rebecca Shi
Sasha Targ
Jeffrey Wang

2010

Charles Adelmann
Anthony Bishop
Charles Du
Zachary Gold
Brendan Huang
David Huang
Russell Islam
Son Le
Niel Lebeck
Gun Ho Lee
Eric Liaw
Joseph Park
Hong Yang Sun
Christina Tsai
Debra Van Egeren
Chelsea Voss
Shulin Ye
Andrew Yu
Fred Yu
Yuqing Zhang

2011

Alexander Briese
Nikhil Buduma
Angela Chen
Lauren Chung
Victoria Cui
Lei Ding
Charles Du
Nhi Ho
Audrey Huang
Russell Islam
Min Cheol Kim
Dong Lim
Jing Liu
Jonathan Pan
David Shabsovich
Rebecca Shi
Chelsea Voss
Jeffrey Wang
Shulin Ye
Fred Yu

2012

Dani Bork
Nikhil Buduma
Sitara Chapman
Lei Ding
Owen Gray
James Ha
David Hao
Bryce Hwang
Andrew Jiang
Min Cheol Kim
Jing Liu
Kevin Ma
Rachel Paris
Oliver Sun
Tejas Sundaresan
Siddharth Trehan
Hamilton Trinh
Ray Wang
Dominic Yurk
Yuqing Zhang

2013

Kevin Bao
Nikhil Buduma
Bingfei Cao
Sidharth Chand
Raghu Dhara
Lei Ding
Katie Dunn
Michael Gao
Charles Gleason
Bryce Hwang
Eric Li
Karen Li
William Long
Abhijit Mudigonda
Janice Ong
Christopher Radcliffe
Siddarth Trehan
Ray Wang
Karen Wong
Catherine Wu

2014

Samineni Aneesh
Kevin Bao
Boyang (Peter) Dun
Grace Chen
Jeff Chow
Yilun Du
Michael Gao
Siddarth Guha
Erin Kim
Ming Liu
William Long

USA Biology Olympiad Finalists

Peter Lu
Peter Luo
Varun Mangalick
Abhijit Mudigonda
Buduma Nithin
Jackie Osaki
Austin Wang
Catherine Wu
Yan Zhongxia

2015

Kevin Bao
Marcello Chang
Grace Chen
Rowan Cheung
Jordan Docter
Yilun Du
Boyang (Peter) Dun
Michael Gao
Siddarth Guha
Roger Jin
Erin Kim
Jueun Lee
Varun Mangalick
Neeraj Prasad
Aneesh Samineni
Kentaro Tanaka
David Wu
David Xu
David Yang
Maxwell Zhu

2016

Varkey Alumootil
Boyang (Peter) Dun
Haydn Bradstreet
Nanki Chugh
Roger Jin
Bowen Jing
Mihir Khambete
Jasper Lee
Rick Li
Rachana Mudipalli
Rahul Nagvekar
Venkat Sankar
Ashwin Srinivasan
Alexander Tsao
Catherine Wang
Xuchen Wei
David Wu
Thomas Xiong
David Yang
Jamie You

2017

Nithya Attaluri
Prem Chintalapudi
Nanki Chugh
Charles Dai
William Ellsworth
Andrew Hennes
Allen Huang
Kartik Iyer
Mihir Khambete
Pranav Lalgudi
Edward Lee
Neeraj Prasad
Alexander Tsao
Jacob Umans
Catherine Wang
Xuchen Wei
Daniel Wu
Wenbo Wu
Thomas Xiong
Forest Yang

2018

Sabrina Cai
Lucy Chen
Allen Huang
Charles Huang
Bhav Jain
Edward Lee
Eugene Lee
Derrick Liang
Shree Mohan
Atharv Oak
Nithin Parsan
Henry Shen
Kimberly Shen
Alexander Tsao
Jessica Woo
Wenbo Wu
Helen Yang
Jason Yang
Jason Zhang
Lucy Zou

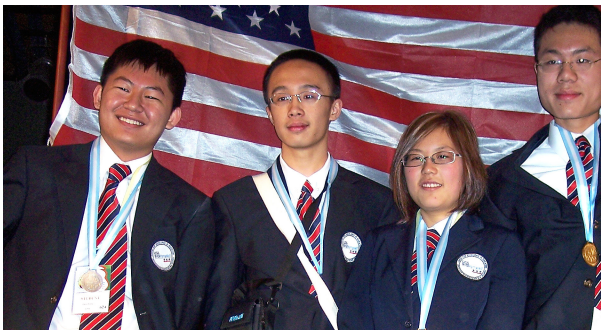
"The more you sweat in peace, the less you bleed in war."
- H.G. Rickover

International Biology Olympiad

Team USA 2003
2 Silver Medals, 2 Bronze Medals
Katherine Aull *Thomas Jefferson HS for Science and Technology, Alexandria, Va.*
Kelley Harris *McClatchey HS, Sacramento, Calif.*
Victor Li *Monta Vista HS, Cupertino, Calif.*
Michael Xiang *Bridgewater-Raritan HS, Bridgewater, N.J.*

Team USA 2004
4 Gold Medals
Katherine Aull *Thomas Jefferson HS for Science and Technology, Alexandria, Va.*
ZeNan Chang *Santa Monica HS, Santa Monica, Calif.*
Clinton Hansen *Oneida HS, Oneida, N.Y.*
Bradford Hargreaves *Caddo Parish Magnet HS, Shreveport, La.*

Team USA 2005
2 Gold Medals, 2 Silver Medals
Grace Eckhoff *Bellaire HS, Bellaire, Texas*
Steven Hao *Silver Creek HS, San Jose, Calif.*
Christopher Krueger *Smoky Hill HS, Aurora, Calif.*
Robin Zhou *Alhambra HS, Alhambra, Calif.*



Team USA 2006
2 Gold Medals, 2 Silver Medals
Meng Xiao He *East Chapel Hill HS, East Chapel Hill, N.C.*
Jawon Lee *Torrey Pines HS, San Diego, Calif.*
Allen Lin *Holmdel HS, Holmdel, N.J.*
Jason Wu *Ladue Horton Watkins HS, St. Louis, Mo.*

Team USA 2007
4 Gold Medals and #1 Team in the World
Meng Xiao He *East Chapel Hill HS, East Chapel Hill, N.C.*
Barry Liu, *State College Area HS, State College, Pa.*
Mark Shteyn *East Brunswick HS, East Brunswick, N.J.*
Helen Yang *Clarkstown South HS, New City, N.Y.*

International Biology Olympiad

Team USA 2008 and 2009
4 Gold Medals Both Years
Jonathan Gootenberg *Montgomery Blair HS, Rockville, Md.*
David Huang *Charter School of Wilmington, Hockessin, Del.*
Seungsoo Kim *Mountain View HS, Vancouver, Wash.*
Jonathan Liang *Thomas S. Wootton HS, North Potomac, Md.*

Team USA 2010
3 Gold Medals, 1 Silver Medal
Charles Du *University of Chicago Laboratory Schools, Chicago, Ill.*
Eric Liaw *Punahou School, Honolulu, Hawaii*
Debra Van Egeren *Detroit Country Day School, Beverly Hills, Mich.*
Chelsea Voss *Cupertino HS, Cupertino, Calif.*

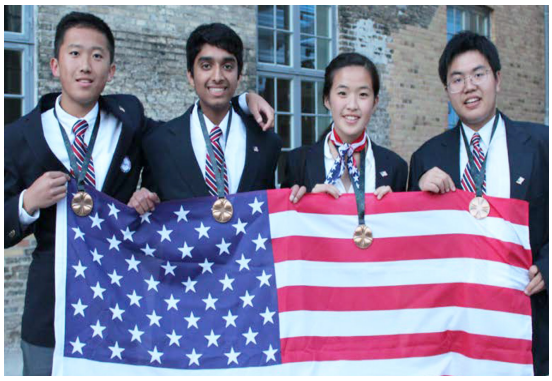
Team USA 2011
4 Gold Medals amd #1 Team in the World
Charles Du *University of Chicago Laboratory Schools, Chicago, Ill.*
Rebecca Shi *West Windsor-Plainsboro HS South, West Windsor, N.J.*
Chelsea Voss *Cupertino HS, Cupertino, Calif.*
Shulin Ye *Texas Academy of Mathematics and Science, Denton, Texas*

Team USA 2012
4 Gold Medals
Nikhil Buduma *Bellarmine College Preparatory, San Jose, Calif.*
Lei Ding *The Charter School of Wilmington, Wilmington, Del.*
Jing Liu *Mission San Jose HS, Fremont, Calif.*
Kevin Ma *East Brunswick HS, East Brunswick, N.J.*

Team USA 2013
4 Gold Medals amd #1 Team in the World
Nikhil Buduma *Bellarmine College Preparatory, San Jose, Calif.*
Lei Ding *The Charter School of Wilmington, Wilmington, Del.*
Charles Gleason *Bergen County Academies, Hackensack, N.J.*
Catherine Wu *Canyon Crest Academy, San Diego, Calif.*

International Biology Olympiad

Team USA 2014
3 Gold Medals, 1 Silver Medal
Yilun Du *Pullman HS, Pullman, Wash.*
William Long *Thomas Jefferson HS for Science and Technology, Alexandria, Va.*
Varun Mangalick *Mounds View HS, Arden Hills, Minn.*
Abhijit Mudigonda *Westview HS, Portland, Ore.*



Team USA 2015
4 Gold Medals
Grace Chen *Bridgewater-Raritan HS, Bridgewater, N.J.*
Yilun Du *Pullman HS, Pullman, Wash.*
Boyang (Peter) Dun *Canterbury School, Fort Wayne, Ind.*
Varun Mangalick *Mounds View HS, Arden Hills, Minn.*

Team USA 2016
3 Gold Medals, 1 Silver Medal
Varkey Alumootil *Canyon Crest Academy, San Diego, Calif.*
Boyang (Peter) Dun *Canterbury School, Fort Wayne, Ind.*
Bowen Jing *West Lafayette Junior-Senior HS, West Lafayette, Ind.*
Thomas Xiong *Seven Lakes HS, Katy, Texas*

Team USA 2017
4 Gold Medals
Edward Lee *Liberal Arts and Science Academy, Austin, Texas*
Alexander Tsao *Troy HS, Fullerton, Calif.*
Thomas Xiong *Seven Lakes HS, Katy, Texas*
Catherine Wang *Lexington HS, Lexington, Mass.*

Team USA 2018
Lucy Chen *Mounds View HS, Arden Hills, Minn.*
Allen Huang *Canyon Crest Academy, San Diego, Calif.*
Alexander Tsao *Troy HS, Fullerton, Calif.*
Jason Yang *West Windsor-Plainsboro HS North, Plainsboro Township, N.J.*

Teacher Enrichment Program

The Teacher Enrichment Program helps to assure a future talented and diverse U.S. workforce in science, technology, engineering and mathematics (STEM) by providing opportunities for rural and urban middle and high school science teachers to connect with experts from industry and academia to explore cutting-edge research and make meaningful professional links with direct benefits for their students. Since it was launched in 2012, TEP has impacted more than 2,700 teachers and nearly 472,000 students by providing multiple opportunities for professional evelopment:

TEP Teacher Enrichment Program

- **Bite of Science**: An afterschool workshop bringing together middle and high school STEM teachers with scientists and/or engineers from industry, academia and/or government. Teachers learn about cutting edge research and innovation, how to connect the research to the classroom and discover ways to inspire and guide their students toward academic opportunities and STEM careers.
- **STEM Teacher Roundtables:** Forums connecting representatives from academic, industry, government and non-profit STEM organizations with teachers to create awareness of STEM career fields, the job skills required for the 21st century STEM worker and opportunities for teachers and their students to explore STEM subjects and career paths.
- **Lab Bench**: An interactive online resource providing access to Bite of Science and Teacher Roundtable presentations and videos, resources and low-cost activities related to Bite of Science topics, industry and teacher-contributed resources, and other helpful materials for the middle and high school STEM classroom.
- **Public/Private Partnerships**: An effort to connect companies, academic institutions, government agencies, and academic community groups with undeserved teachers. TEP works to increase engagement of the STEM community with local schools to provide opportunities such as classroom speakers, mentorships, field trips, and additional resources for teachers and their students.

As with all CEE programs, TEP is free of cost to all participants selected to attend.

Rickover Essay Competition

CEE's 35th Anniversary Rickover Committee recommended that a Rickover essay contest be developed to broaden understanding of the Admiral's many historic contributions in science, engineering and education.

The Center distributed essay guidelines to the Naval Service Training Command (NSTC), which oversees the nationwide NROTC and NJROTC programs. With the Navy's approval, NSTC leadership invited all 82 U.S. NROTC programs to participate. A total of 26 universities/consortia accepted the invitation, and 45 essays from NROTC midshipmen were submitted for review. Cash awards of $500 for each winner were donated by Steve Strong, RSI '84.

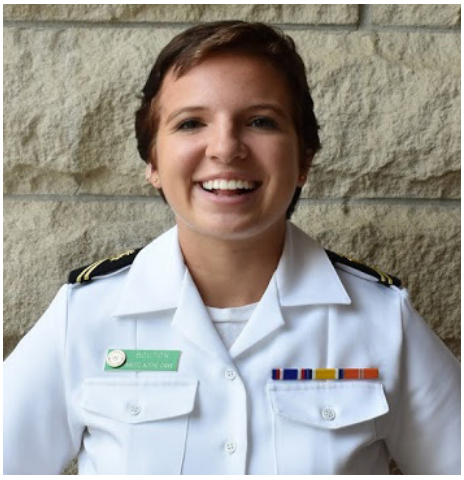
CEE RSI and U.S. Naval Academy alumni on the Rickover Committee served as judges to determine the top three essays: Kent Churchill, Roger Horton, Pam Krahl, Greg Meyer and John Stafford. Other committee members were Neil Todreas, Bill Becklean, Jack Cook, Mario Fiori, Charles Holloway, Morgan Kane and Admiral Bill Owens.

The Rickover Essay Competition was coordinated by Christopher Sedlock, CEE Vice President for Communications and Advancement. Check presentations will be made by the NROTC commanding officers of the winning entrants at the respective universities.

Following CEE's 35th Anniversary gala dinner, Michael Savageaux, CAPT, USN, Boston University Professor of Naval Science and MIT Visiting Professor of Naval Science, will communicate information regarding winning entries to awardees' commanding officers.

First Place
Jason Alexander Bermudez,
Officer Candidate
NROTC State University of New York
Maritime College
Hometown: Bronx, N.Y.

Second Place
MIDN Henry Roman 1/C
NYC NROTC Battalion
Hometown: Poughquag, N.Y.



Third Place
MIDN Delany M. Bolton 2/C
University of Notre Dame NROTC Unit
Hometown: St. Augustine, Fla.

Accolades and Honors

WATERMAN AWARD
2008 – Terence Tao
2014 – Feng Zhang

FIELDS MEDAL
2006 – Terence Tao

SIMONS INVESTIGATORS
2012 – Terence Tao
2013 – Joel Moore, Kannan Soundararajan
2015 – Christopher Skinner
2017 – Shamit Kachru

RHODES SCHOLARS
1986 – Gregory Gunn, Janice Hudgings
1991 – Priya Aiyar
1994 – Neil Hattangadi
1995 – Anna Terry
1997 – Sanjay Basu
1998 – Dave Chokshi, Jeremy England
1999 – Allison Gilmore
2001 – William Hwang
2006 – Zach Frankel

MACARTHUR AWARD
2006 -- Terence Tao

BREAKTHROUGH PRIZE
2015 -- Terence Tao

PUTNAM AWARD
1987 -- John Tillinghast
1993-94-95 -- Lenhard Ng
1996 -- Daniel Schepler
2000-01-02-03 -- Gabriel Carroll
2007-08-10-11 -- Brian Lawrence
2012 -- Eric Larson
2014 -- Ravi Jagadeesan
2016 -- Joshua Brakensiek
2017 - David Stoner

MARSHALL SCHOLARS
1985 – Jennifer Wu
1986 – Michael Mitzenmacher
1990 – Aimee Crago
1993 – Ramesh Johari, Joshua McDermott, Eric Sheu
1994 – Rhiju Das
1996 – Davesh Maulik
2000 – Finale Doshi
2002 – Emma Schmidgall
2005 – Grace Eckhoff, Vinayak Muralidhar
2006 – Nate Thomas
2007 – Christina Chang
2011 -- Allen Lin
2015 – Felipe Hernandez
2017 – Daniel Zuo

INTEL STS
1985 -- Mark Kantrowitz (7th)
1987 – Steven Racunas (6th)
1989 – Christopher Skinner (1st)
1991 – Ashley Reiter (1st), Dean Chung (4th)
1992 – Michael Agney (3rd), Peter Khalifah (8th)
1993 – Lenhard Ng (3rd)
1994 – Robert Sarvis (4th)
1995 – Martin Stiaszny (3rd), Samit Dasgupta (4th), Deborah Yeh (5th)
1996 – Bruce Haggerty (4th)
1997 – Davesh Maulik (4th)
1998 – Christopher Mihelich (1st), Ravi Shah (2nd), Travis Schedler (5th)
1999 – Natalia Toro (1st)
2000 – Viviana Risca (1st), Feng Zhang (3rd), Sasha Schwartz (4th), Elizabeth Williams (8th)
2001 – Nathaniel Craig (2nd), Gabriel Carroll (3rd)
2002 – Jacob Licht (2nd), Emily Elizabeth Riehl (3rd), Vivek Venkatachalam (9th)
2003 – Jamie Rubin (1st), Anatoly Preygel (3rd), Lester Mackey (6th), Emma Schmidgall (10th)
2004 – Boris Alexeev (3rd), Linda Westrick (4th), Qilei Hang (7th), Ann Chi (8th)
2005 – Kelley Harris (3rd), Robert Cordwell (4th), Po-Ling Loh (10th)
2006 – Yi Sun (2nd), Kimberly Scott (10th)
2009 – Eric Kerner Larson (1st), Phillip Vidal Streich (3rd), Noah M. Arbesfeld (6th), Nilesh Tripuraneni (9th)
2013 – Sara Volz (1st), Jonah Kallenbach (2nd)
2014 – Anand Srinivsan (8th)
2015 – Noah Golowich (1st), Andrew Jin (1st), Shashwat Kishore (3rd), Anvita Gupta (3rd), Catherine Li (3rd)
2016 – Amol Punjabi (1st), Meena Jagadeesan (2nd)

REGENERON STS
2016 – Prathik Naidu (7th)
2017 – Isani Singh (3rd), Vinjai Vale (7th), Syamantak Payra (9th)

SIEMENS COMPETITION
2003 – Steven Byrnes (1st)
2004 – Linda Westrick (3rd)
2005 – Po-Ling Loh (2nd)
2006 – Luyi Zhao (5th)
2007 – Dmitry Vaintrob (1st)
2009 – Eric Kerner Larson (2nd)
2010 – Lynelle Ye (2nd)
2012 – Sitan Chen (3rd)
2013 – Kavish Gandhi (2nd), Noah Golowich (2nd)
2014 – Peter Tian (1st), Anvita Gupta (6th)
2015 –Sanjana Rane (2nd), Andrew Chen (4th), David Zhu (5th)
2016 – Anika Cheerla (2nd)
2017 – Franklyn H. Wang (2nd), Gabrielle Liu (3rd)

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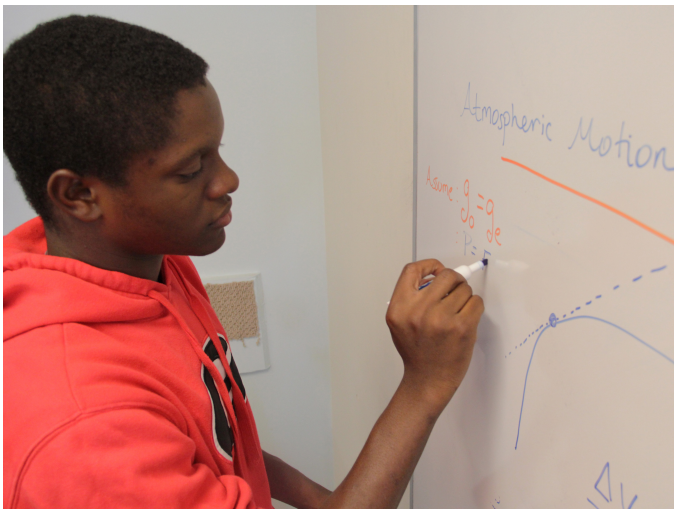
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