



# TRANSFORMING OUR DNA



2016 ANNUAL REPORT



*Science News* | DECEMBER 24, 2016

**ONLY THE ESSENTIALS**

One of biology's biggest achievements in 2016 was intentionally as small as possible: building a bacterium with only 473 genes. That pint-size genetic blueprint is a milestone in a decades-long effort to create an organism containing just the bare essentials of life. Ultimately, such cell templates could transform the field of medicine, as well as agricultural and chemical industries.

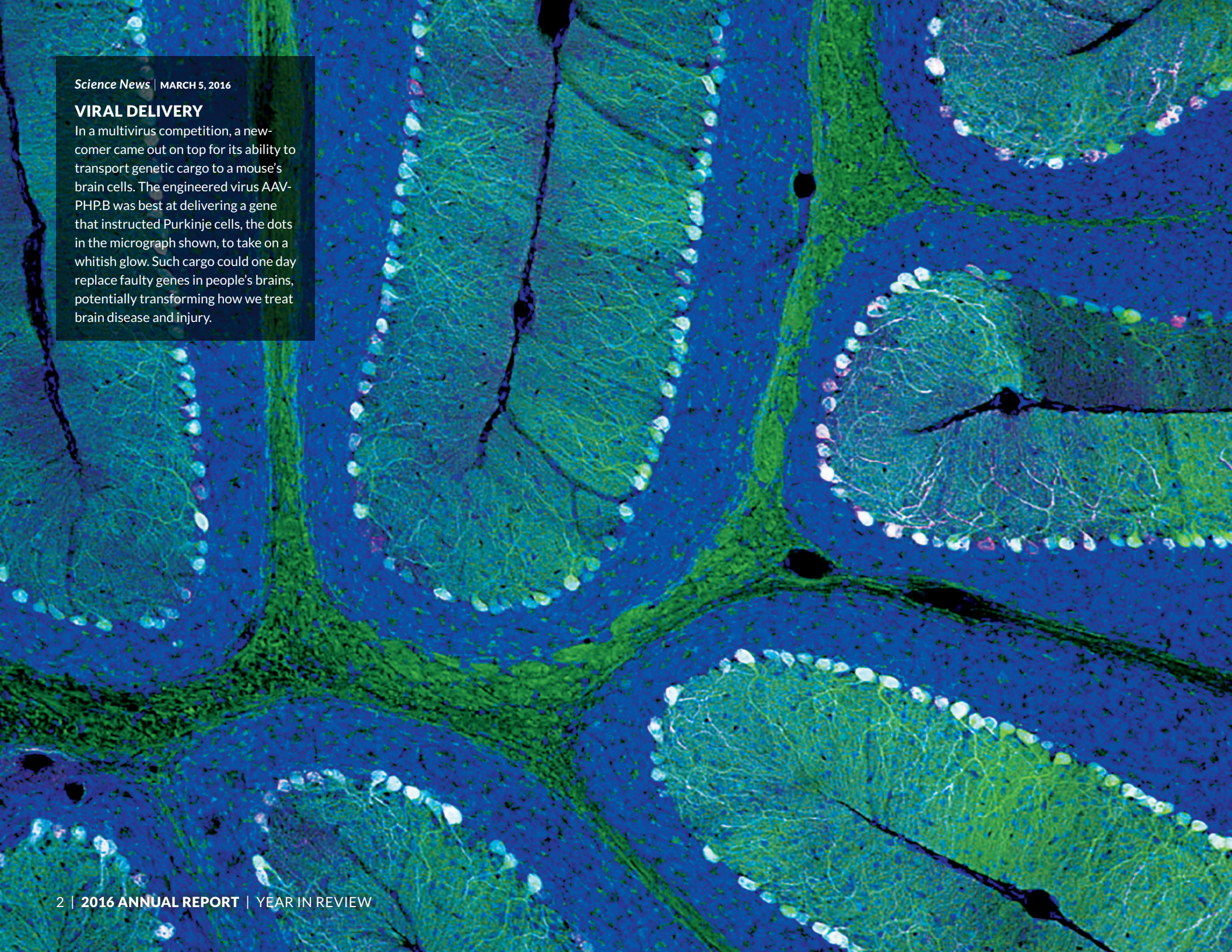
## Table of Contents

<b>2016 Year in Review</b>	<b>2</b>
Letter from H. Robert Horvitz, Chair	4
Letter from Maya Ajmera, President & CEO	6
Overview and Top Ten	8
Regeneron Sponsorship Announcement	10
<b>2016 Society Competitions</b>	<b>14</b>
Intel Science Talent Search	16
STS 75 <sup>th</sup> Anniversary Gala	18
Intel International Science and Engineering Fair	20
Broadcom MASTERS	22
Alumni	24
STS 75 <sup>th</sup> Anniversary Alumni Conference	26
<b>Science News Media Group</b>	<b>28</b>
<i>Science News</i>	30
<i>Science News for Students</i>	34
<b>Outreach &amp; Equity</b>	<b>36</b>
<i>Science News</i> in High Schools	38
Advocate Grant Program	40
Research Teachers Conference	42
STEM Action & Research Grants	44
<b>Society for Science &amp; the Public</b>	<b>46</b>
Financials	48
Donors	50
Board of Trustees	56
Executive Team and Staff	57

Science News | MARCH 5, 2016

### VIRAL DELIVERY

In a multivirus competition, a new-comer came out on top for its ability to transport genetic cargo to a mouse's brain cells. The engineered virus AAV-PHP.B was best at delivering a gene that instructed Purkinje cells, the dots in the micrograph shown, to take on a whitish glow. Such cargo could one day replace faulty genes in people's brains, potentially transforming how we treat brain disease and injury.



# 2016 YEAR IN REVIEW



As the Chair of the Society's Board of Trustees, I have the honor of introducing the Society for Science & the Public's 2016 Annual Report, *Transforming Our DNA*, which shares a comprehensive portrait of the organization with you, our dedicated supporters.

Our vision of promoting the understanding and appreciation of science and the vital role played by science in human advancement continues. Under the visionary leadership of Maya Ajmera, we are excelling at our core programs while also transforming our work as a long-respected voice in the scientific community with the goal of reaching more people, from students and teachers to professional scientists and science enthusiasts.

In 2016, we celebrated the 75<sup>th</sup> anniversary of our Science Talent Search (STS), the nation's oldest and most prestigious science competition for high school seniors. 2016 also included the announcement of our third ever Science Talent Search sponsor, Regeneron. Their incredible \$100 million, 10-year sponsorship ensures the continued success of this national treasure, which has served as a catalyst for the careers of many of our nation's most well-respected scientists and entrepreneurs. It is fitting, but not surprising, that Regeneron was founded by two STS alumni, George D. Yancopoulos (1976 STS) and Leonard Schleifer (1970 STS). With their support, the Society is able to double the value of the awards given to the Science Talent Search winners to more than \$3 million annually. We cannot thank those at Regeneron enough.

*Science News* and *Science News for Students* remain at the forefront of breaking scientific news. For example, we described the landmark development and innovative applications of the CRISPR system, a topic that inspired our Annual Report theme. *Science News* and *Science News for Students* continue to win prestigious journalism awards for their exceptional coverage. We are working to ensure that more people, especially young people, have access to our trusted science reporting. More than 4,000 schools now participate in our *Science News* in High

Schools program, an impressive increase over 2015, when we reached fewer than 300 schools. We hope one day to expand this program to include all public high schools.

I personally thank our Board of Trustees for working diligently to ensure the continued success of the Society in achieving our important goals. I extend a special thank-you to Vivian Schiller, who retired as a Trustee after serving with distinction since 2012.

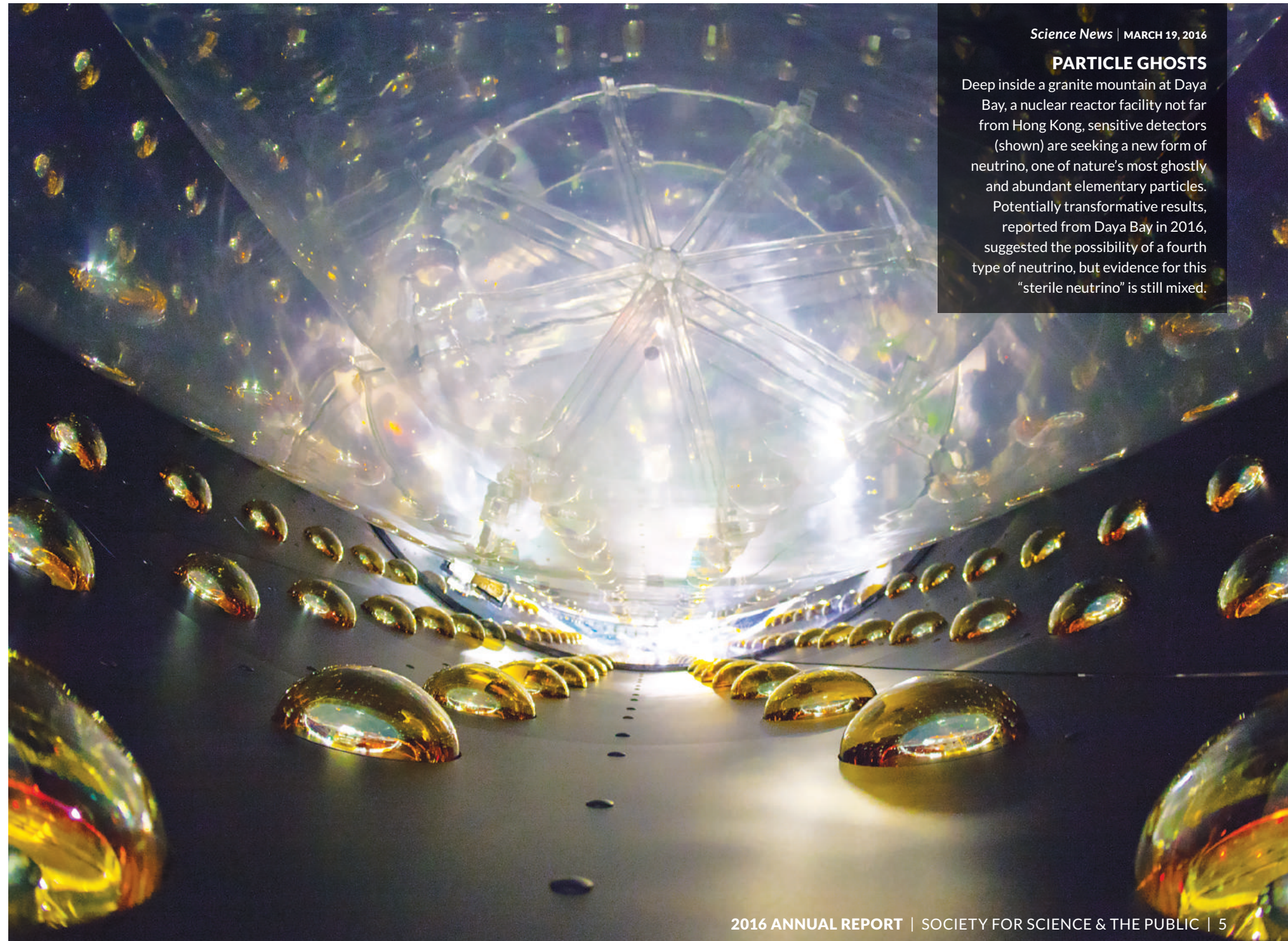
The Society welcomed three new members to our Board of Trustees in 2016: Hayley Bay Barna, Tessa M. Hill and Scott A. McGregor. Hayley is a Venture Partner at First Round Capital and Co-Founder and former Co-CEO of Birchbox. She is also an alumna of the 2001 Science Talent Search. Tessa is a Professor and Chancellor's Fellow in the Department of Earth & Planetary Sciences at the University of California, Davis. Scott is the retired President and Chief Executive Officer of Broadcom Corporation and a retired Chairman of the Broadcom Foundation. He is an alumnus of the 1974 Science Talent Search. These three new members add exceptional depth and breadth to the Board and will increase the Board's ability to advise the Society to grow.

Our work is made possible by the generous support of you, the Society's subscribing members, donors, alumni and readers. Thank you for helping the Society promote science.

We look forward through this next year to building upon our recent exciting progress.

Sincerely yours,

H. Robert Horvitz, Ph.D.  
Chair, Board of Trustees  
Nobel Prize in Medicine or Physiology, 2002  
Professor of Biology, Massachusetts Institute of Technology  
Investigator, Howard Hughes Medical Institute  
Member, MIT McGovern Institute for Brain Research  
Member, MIT Koch Institute for Integrative Cancer Research



Science News | MARCH 19, 2016

### PARTICLE GHOSTS

Deep inside a granite mountain at Daya Bay, a nuclear reactor facility not far from Hong Kong, sensitive detectors (shown) are seeking a new form of neutrino, one of nature's most ghostly and abundant elementary particles. Potentially transformative results, reported from Daya Bay in 2016, suggested the possibility of a fourth type of neutrino, but evidence for this "sterile neutrino" is still mixed.



This was a year of celebration and growth for the Society for Science & the Public. I am thrilled to present our 2016 Annual Report — *Transforming Our DNA*.

In its 75-year history, the Science Talent Search (STS) has had only two sponsors — Westinghouse and Intel. In 2016, we announced the third sponsor of the Science Talent Search — Regeneron, a biotech company. This 10-year, \$100 million partnership secures the future of STS, doubling our annual STS awards to more than \$3 million to better reward the nation's brightest young scientists and encourage their continued pursuit of scientific innovation, as well as investing \$30 million in our outreach and equity initiatives. This partnership is thanks to the powerful leadership of STS alumni Leonard Schleifer (1970 STS), President and CEO, and George D. Yancopoulos (1976 STS), President and Chief Scientific Officer, of Regeneron. The passion and commitment of the entire Regeneron team show that they are an extraordinary force for STEM education in the 21<sup>st</sup> century.

In March, we celebrated the 75<sup>th</sup> anniversary of STS with a beautiful gala and awards ceremony with close to 1,000 finalists, parents, mentors, Society supporters and alumni in attendance. This was followed the next day by the Society's first alumni conference, where distinguished alumni spoke, including Nobel Laureates, entrepreneurs and scientific leaders.

I want to personally thank Intel for its visionary leadership supporting STS from 1998 through 2016. Our exemplary partnership enabled us to reach thousands of the nation's brightest students, putting them on the paths of their remarkable careers in STEM.

The Society's outreach and equity initiative continues to scale its reach to serve more students and teachers. More than 4,000 public high schools, close to 30 percent of all public high school students in the United States, now have access to our *Science News* in High Schools program. We also doubled the size of our annual Research Teachers Conference to 200 teachers.

In addition, we were pleased to begin making STEM Action & Research Grants to innovative projects and to research teachers working on critical STEM issues.

The pages of our Annual Report highlight incredible images from our 2016 coverage in *Science News* and *Science News for Students*. These images illustrate our transforming understanding of the world around us. They show the importance of the Society's timely, credible and independent science journalism.

In 2016, *Science News* was among the first to report what was widely considered the biggest physics discovery in a decade — the direct detection of gravitational waves. In August, the Society launched a stunning new website for *Science News for Students* that better showcases our award-winning journalism.

The Society's high-caliber programming can only take place thanks to the Society's exceptional team. In particular, I would like to thank our executive team for securing the Regeneron sponsorship. I am also grateful for the expansive network of thousands of judges and volunteers who ensure the success of our world-class science competitions. Additionally, I appreciate the steadfast stewardship of the Society by our Board of Trustees. I am particularly excited to welcome new Trustees Hayley Bay Bar-na (2001 STS), Tessa M. Hill and Scott A. McGregor (1974 STS).

Just as science transforms, we will remain on the forefront of both scientific news and finding the next generation of science and engineering leaders. None of this would be possible without your generous commitment to our work. Thank you for all that you do to ensure the Society's success and impact.

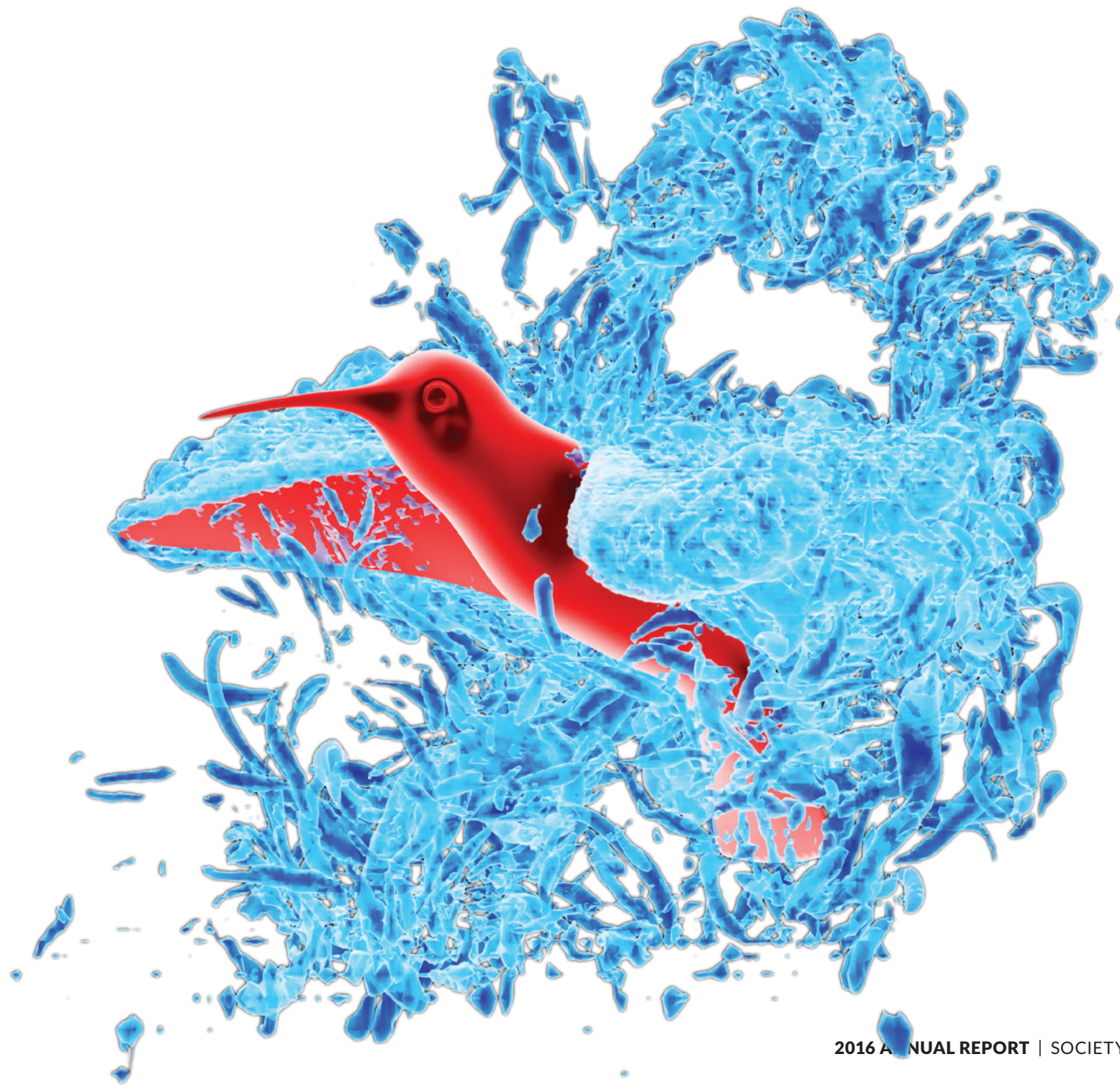
With best wishes,

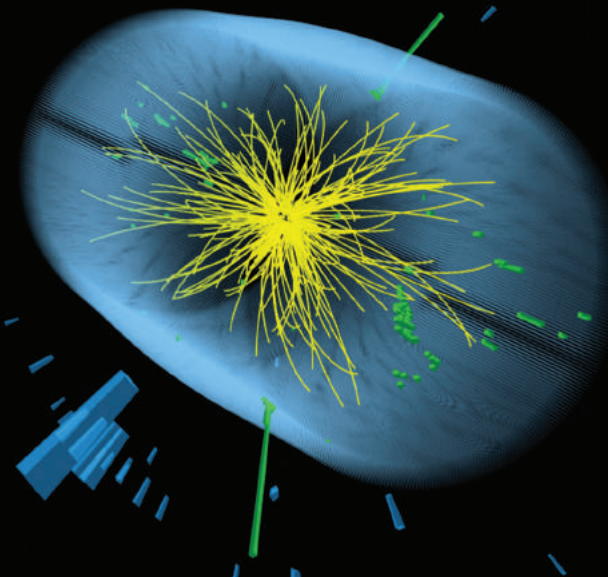
Maya Ajmera  
President & CEO  
Publisher, *Science News*  
1985 Science Talent Search

*Science News* | JANUARY 23, 2016

## WONDERS OF FLIGHT

Hummingbirds are extreme athletes, deftly darting between flowers. A combination of high-speed filming and computer simulations has now revealed how the birds' wings manipulate the surrounding air. Researchers have known that the wings induce lift by generating what are called leading-edge vortices (shown as thick blue layers), but the simulations highlight the true complexity of air movement.





Science News | MAY 28, 2016

### BIG OR BLIP?

A possible new particle spotted at the Large Hadron Collider had physicists searching for explanations in 2016. The potential particle showed up in proton collisions that produce two photons (illustrated here). If real, the data could transform our understanding of particle physics — or they might turn out to be merely a blip.

# TRANSFORMING OUR DNA

The Society for Science & the Public is a champion for science, dedicated to expanding scientific literacy, effective STEM education and scientific research. Founded in 1921 by Edward W. Scripps, a renowned journalist, and William Emerson Ritter, a California zoologist, we are a nonprofit 501(c)(3) membership organization focused on promoting the understanding and appreciation of science and the vital role it plays in human advancement: to inform, educate and inspire.

Since 1922, the Society has published *Science News (SN)*, a vibrant and trusted source of science journalism that is concise and comprehensive. The Science

News Media Group offers readers bold, contemporary, award-winning editorial content, informative imagery, a blog network, educational products and access to archives going back to 1924. This includes *Science News for Students (SNS)*, launched in 2003 as a youth edition and companion to *SN*. *SNS* is an award-winning, free digital resource serving students, parents and teachers. *SN* has more than 120,000 subscribers, more than 12 million unique website visitors during the past year, 2.7 million Facebook fans and 2.2 million Twitter followers.

In 1942, the Society launched the first of its science competitions, the Science Talent Search (STS). In 2016, we cele-

brated the 75<sup>th</sup> anniversary of STS and named Regeneron as the competition's third sponsor, following Intel and Westinghouse. The Society also founded and produces the Intel International Science and Engineering Fair (Intel ISEF) and Broadcom MASTERS (Math, Applied Science, Technology and Engineering for Rising Stars). The Society's Affiliated Fair Network, encompassing 450 U.S. and international fairs, is a gateway to higher education and STEM careers for millions of students worldwide each year. The community of 60,000 alumni of our competitions are thought leaders and innovators of all ages and from all industries.

The Society recently expanded its work to ensure that more young people have access to its award-winning science journalism and can experience the benefits of science research competitions. These programs include our *Science News in High Schools*, Advocate Grant Program, Research Teachers Conference and STEM Action & Research Grants.

The Society is thrilled to present its 2016 Annual Report. We are looking back on a year of important announcements and exciting changes that have transformed our organization.

## 2016 Society Top Ten



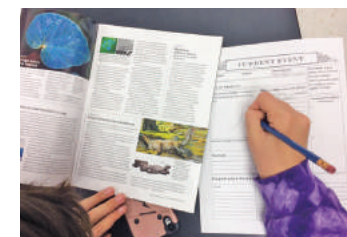
In an unprecedented special report, *SN* was among the first to report what was widely considered the biggest physics discovery in a decade — the direct detection of gravitational waves.



Twenty-three Society alumni participated in the sixth White House Science Fair, bringing the number of our students who have participated in this exciting event to nearly 70. Society alumni have attended every White House Science Fair.



Regeneron was selected by the Society as the new sponsor for the Science Talent Search. Regeneron committed \$100 million to support the competition and expand the Society's outreach and equity programs through 2026.



The *Science News in High Schools* program expanded from 270 to more than 4,000 schools for the 2016–2017 school year, providing programmatic access to close to 30 percent of public U.S. high school students, reaching all 50 states.



For the first time, Broadcom MASTERS included four top awards: Nathan Deng won the new \$7,500 Lemelson Award for Invention, Eleanor Sigrest won the \$25,000 Samueli Foundation Prize, Aria Eppinger won the new \$20,000 Robert Wood Johnson Foundation Award for Health Advancement and Kaien Yang won the \$10,000 Marconi/Samueli Award for Innovation.



With the support of Intel, the Society celebrated the 75<sup>th</sup> anniversary of the Science Talent Search during a formal gala keynote by Neil deGrasse Tyson. This was followed the next day by the Society's first STS Alumni Conference, with MIT's Feng Zhang (2000 STS) and former California first lady Gayle Edlund Wilson (1960 STS) as speakers.



*Science News* was immortalized in "Merriam-Webster Unabridged," which used several *SN* writers' sentences in its newly expanded online dictionary to demonstrate the usage of technical terms.



More than 1,700 students from over 75 countries, regions and territories competed for more than \$4 million in awards at the 2016 Intel International Science and Engineering Fair. Canadian Han Jie (Austin) Wang won the top award of \$75,000 for developing microbial fuel cells that more efficiently convert organic waste into electricity.



The Society launched an improved platform for *Science News for Students*, enabling this award-winning middle school resource to make an even larger impact by placing *SNS* on its own mobile website and advancing its design and navigation.



The Society doubled the impact of the Research Teachers Conference, providing an all-expenses-paid three-day training to 200 teachers.

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT

NOV

DEC

**REGENERON**

**SCIENCE  
TALENT SEARCH**

A program of  
**SOCIETY FOR SCIENCE  
& THE PUBLIC**

Since 1942

**“We are honored to be the new sponsor of the Science Talent Search, a national treasure that showcases the critical role science plays in advancing society.”**

**GEORGE D. YANCOPOULOS (1976 STS)  
PRESIDENT AND CHIEF SCIENTIFIC OFFICER,  
REGENERON**

# REGENERON PARTNERSHIP TRANSFORMS THE SOCIETY

In 2016, Regeneron became only the third sponsor of the Science Talent Search, following previous sponsors Westinghouse and Intel. Founded and led by physician-scientists who are STS alumni themselves, Regeneron is an innovative biotechnology company that works to help patients with serious diseases. As part of its 10-year, \$100 million commitment, Regeneron significantly increased the awards distributed during the Science Talent Search to better reward the nation’s brightest young scientists and encourage their continued pursuit of scientific innovation. Regeneron nearly doubled the overall award distribution to \$3.1 million annually and increased the top award to \$250,000. Regeneron and the Society share a deep commitment to expanding and diversifying the STEM talent pool and have earmarked \$30 million for Society programs aiming to increase access to STEM education and resources for underrepresented populations. Regeneron’s transformative sponsorship is the largest commitment the Society has ever received from a single organization.



Andrew Amini (2016 STS) and Augusta Uwamanzu-Nna (2016 STS) address the crowd at the American Museum of Natural History with Maya Ajmera (1985 STS), Leonard Schleifer (1970 STS), George D. Yancopoulos (1976 STS) and Neil deGrasse Tyson.



**HOMECOMING CELEBRATION**

Top left: George D. Yancopoulos (1976 STS) announces the \$100 million partnership at the Bronx High School of Science; Bottom left: The crowd listens to the announcement; Opposite: George and Neil deGrasse Tyson are celebrated by students at their alma mater.



**Leonard Schleifer**  
President and Chief Executive Officer

Len (1970 STS) grew up in Queens, New York, with parents and teachers who inspired his passion

for science and entrepreneurship. Len's high school math teacher encouraged him to submit a project to the Westinghouse Science Talent Search in 1970, helping to launch him on the path to his current position.

He earned his M.D. and Ph.D. in pharmacology from the University of Virginia and became a licensed physician certified in neurology. While working as a practicing neurologist and professor at Cornell Medical School, Len became frustrated with the lack of effective treatments for his patients with serious neurodegenerative diseases. He wondered if new "biotechnology" could be harnessed to potentially make an impact for these patients, and many others. Len founded Regeneron in 1988, with the vision of creating a company built entirely on science, where scientists are the heroes and everyone works towards the common goal of helping patients. Thirty years later, Len's dream is a reality, and the Regeneron team is using their scientific prowess to consistently and repeatedly bring new medicines to people in need.



**George D. Yancopoulos**  
President and Chief Scientific Officer

George (1976 STS) has led Regeneron alongside Len for nearly 30 years and serves as the

company's President and Chief Scientific Officer. The son of Greek immigrants in New York City, George attended the Bronx High School of Science, where he wanted to be like the heroes at school and compete in the Westinghouse Science Talent Search.

With the help of his teacher-mentor, Mrs. Strom, George would arrive to school at 5:30 each morning to work on his project, a top winner in the 1976 Science Talent Search. This was a life-changing experience that confirmed he would commit to a career in science.

After graduating as valedictorian at Bronx Science and at Columbia University, George received M.D. and Ph.D. degrees from Columbia University's College of Physicians & Surgeons.

George, together with key members of his team, is a principal inventor and developer of Regeneron's six FDA-approved drugs, as well as its foundational drug development technologies.

# REGENERON SUPPORT BY THE NUMBERS



\$100 million over 10 years

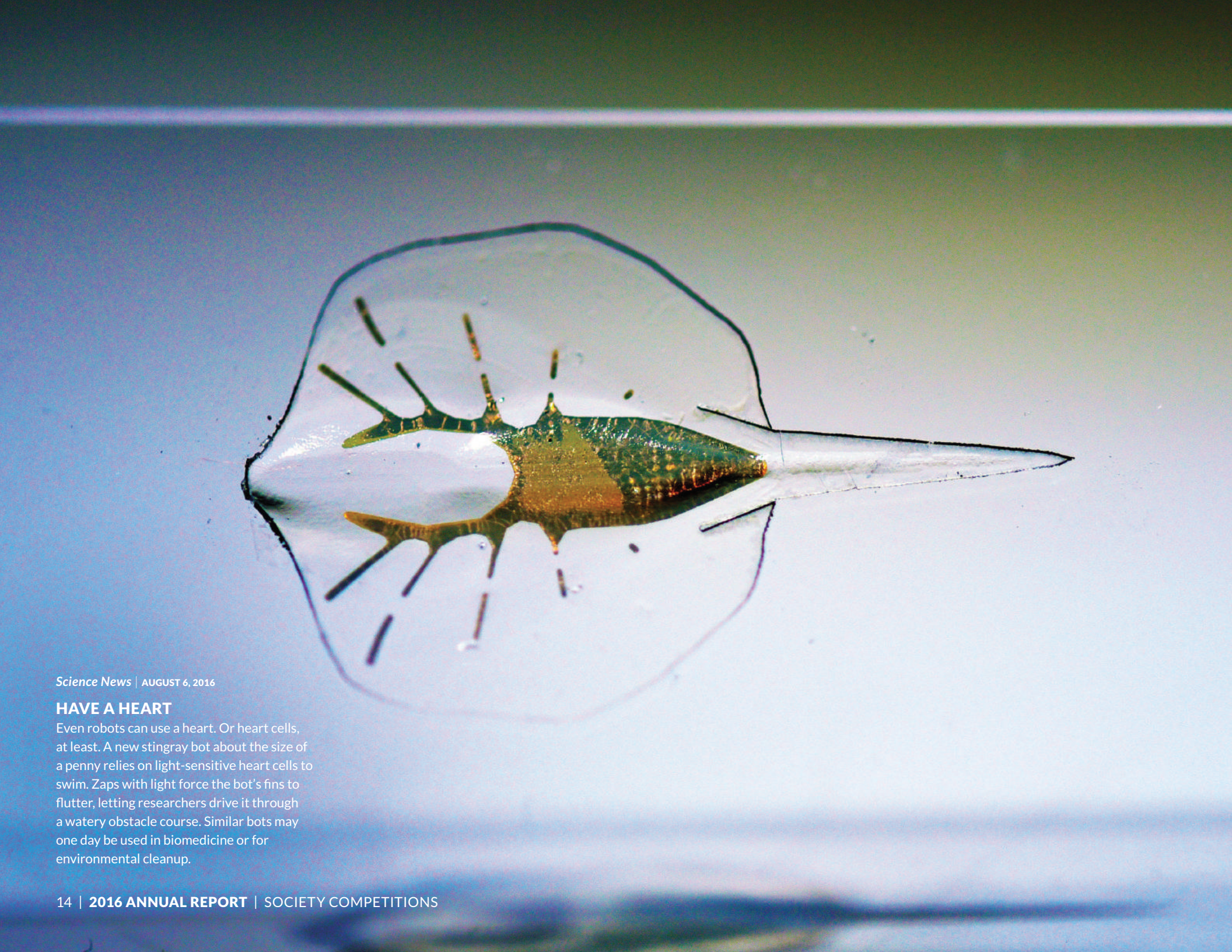
\$70 million for STS      \$30 million for outreach and equity

\$10 million per year

\$3 million per year in STS Awards

\$250,000 top prize amount





Science News | AUGUST 6, 2016

#### HAVE A HEART

Even robots can use a heart. Or heart cells, at least. A new stingray bot about the size of a penny relies on light-sensitive heart cells to swim. Zaps with light force the bot's fins to flutter, letting researchers drive it through a watery obstacle course. Similar bots may one day be used in biomedicine or for environmental cleanup.

# 2016 SOCIETY COMPETITIONS

## TRANSFORMING OUR WORLD

All 40 Intel STS 2016 finalists gather on the steps of the U.S. Capitol during Science Talent Institute week in Washington, D.C.

INTEL SCIENCE TALENT SEARCH



## Competitions

# BRIGHTEST YOUNG MINDS COMPETE IN PRESTIGIOUS COMPETITION



The Intel Science Talent Search (STS), a program of the Society for Science & the Public, is the nation's oldest and most highly regarded science competition for high school seniors. From nearly 1,800 applicants in 2016, 300 semifinalists were selected; they and their schools were each awarded \$1,000. Forty Intel STS finalists were selected to each receive \$7,500 and a trip to Washington, D.C., to compete for top awards.

During the Intel Science Talent Institute in Washington, D.C., Steven Eastaugh (1970 STS), former health policy advisor to President Obama, served as alumni speaker, and alumnus Grant Stokes (1977 STS; 1976 ISEF) of MIT Lincoln Laboratory honored all of the finalists with minor planets named in their honor and in honor of their teachers. Students also participated in an engineering challenge at a TechShop makerspace with sixth grade students from E.L. Haynes Public Charter School in Washington, D.C. The Public Exhibition of Projects took place at the National Geographic Society, where the finalists

shared their research and enthusiasm with more than 500 visitors. Finalists also visited the National Institutes of Health and met with their members of Congress on Capitol Hill.

For the first time in its history, more than half of the 2016 Intel Science Talent Search finalists were female. Additionally Intel STS honored two female top winners.

Top prizes of \$150,000 each were awarded in Basic Research, Global Good and Innovation. Amol Punjabi, 17, of Marlborough, Massachusetts, won for his software that seeks to help drug makers develop new therapies for cancer and heart disease. Paige Brown, 17, of Bangor, Maine, studied water quality and built a cost-effective filter largely made of calcium alginate strands to remove the phosphate from stormwater systems. Maya Varma, 17, of Cupertino, California, created a low-cost, smartphone-based lung function analyzer that diagnoses lung disease as accurately as expensive devices currently used in medical laboratories. Prizes for all winners totaled more than \$1.6 million.

**"STS was the best week of my life. The other finalists, along with the judges and Society staff, made me really believe in my potential as a scientist."**

PAIGE BROWN, FIRST PLACE FOR GLOBAL GOOD



Intel STS finalist George Hou with 6<sup>th</sup> grade students from E.L. Haynes Public Charter School in Washington, D.C.

**A GALA CELEBRATION**

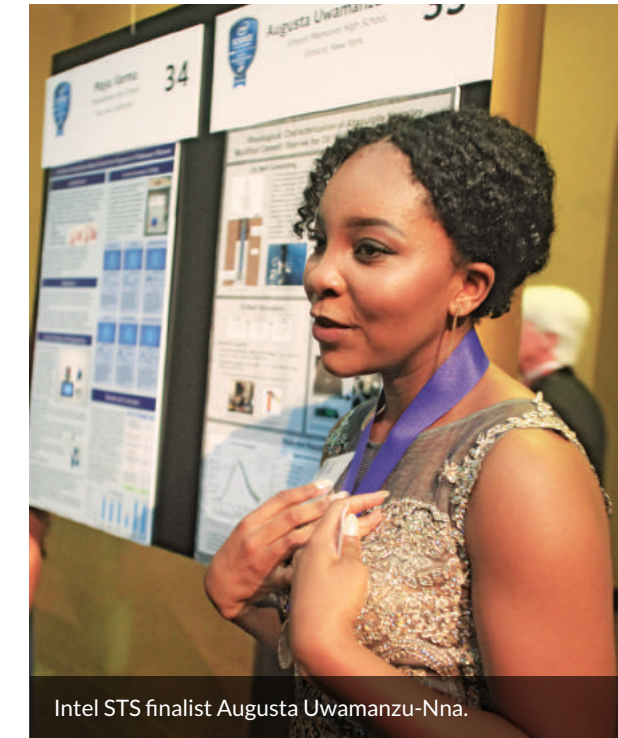
Forty finalists celebrate on stage at the 2016 Intel Science Talent Search Awards Gala. Pictured center stage: First Place for Basic Research recipient Amol Punjabi, First Place for Global Good recipient Paige Brown and First Place for Innovation recipient Maya Varma.



**Competitions**



2016 Intel STS Awards Gala keynote speaker Neil deGrasse Tyson.



Intel STS finalist Augusta Uwamanzu-Nna.



2016 Seaborg Award winner Sanath Devalapurkar.



H. Robert Horvitz, Nobel Laureate and Chair of the Society Board of Trustees, welcomes the crowd.

Guests gather to celebrate the 75<sup>th</sup> anniversary of the Science Talent Search.



**CELEBRATING**  
**75**  
YEARS

**INTEL**  
1998 - 2017  
**WESTINGHOUSE**  
1942 - 1998

## GLOBAL SCIENCE LEADERS

From left, 2016 Intel Foundation Young Scientist Award winner Kathy Liu, First Place Gordon E. Moore Award recipient Han Jie (Austin) Wang and Intel Foundation Young Scientist Award winner Syamantak Payra.



**"Intel ISEF is the catalyst for bringing together students to celebrate knowledge and make powerful, life-long connections that will positively impact our world."**

TINA WEBB-BROWNING, SOUTH CAROLINA  
FAIR DIRECTOR AND DISPLAY & SAFETY  
COMMITTEE MEMBER

## Competitions



# WORLD'S BRIGHTEST YOUNG SCIENTISTS TRANSFORM THE WORLD

The Intel International Science and Engineering Fair (Intel ISEF), a program of the Society for Science & the Public, is the world's largest international pre-college science competition. The 2016 Intel ISEF, held in Phoenix, Arizona, proved to be a showcase of the best scientific minds by featuring more than 1,700 young scientists selected from 417 affiliated fairs in more than 75 countries, regions and territories. Two new categories, Biomedical Engineering and Translational Medical Sciences, were added at the 2016 Intel ISEF to better define and distribute projects, bringing the range of scientific and engineering disciplines to 22. And for the first time, judges entered their scores via a digital application. This improved the timing and tracking of score collection and was well-received by the judges. Han Jie (Austin) Wang, of Canada, was awarded first place, receiving the Gordon E. Moore Award

of \$75,000 for developing microbial fuel cells that more efficiently convert organic waste into electricity. Syamantak Payra, of Friendswood, Texas, received one of two Intel Foundation Young Scientist Awards of \$50,000 for developing a low-cost, electronically aided knee brace that allows an individual with a weakened leg to walk more naturally. Kathy Liu, of Salt Lake City, Utah, received the other Intel Foundation Young Scientist Award of \$50,000 for developing an alternative battery component that could significantly improve battery performance and safety.

The Society's Education Outreach Day brought students from 45 schools throughout the state of Arizona to participate in hands-on science, visit an engaging Expo Hall and meet finalists. A total of 2,545 volunteer hours were contributed by core volunteers, judges and local community members.

30+  
million

Number of students who compete in science fairs every year around the globe at local, state, regional and national levels

175,000

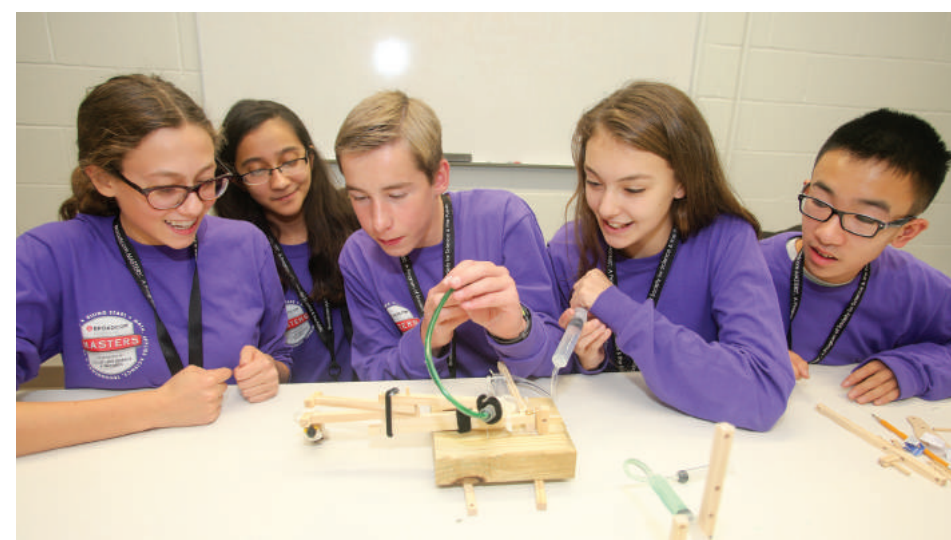
Number of high schools students who rise to the level of competing in the Society's Affiliated Fair Network around the globe at local, state, regional and national levels

1,800

average number of ISEF finalists



BROADCOM MASTERS



### Competitions

# FUTURE STEM LEADERS

## COLLABORATE AND COMPETE



Broadcom MASTERS is the premier science and engineering competition for middle school students. Broadcom MASTERS continues to grow the number of entrants each year, with more than 2,400 applying from the top ten percent of middle school participants in Society-affiliated science fairs around the country. Three hundred semifinalists were honored, representing 250 middle schools from 37 states. The 30 finalists came to Washington, D.C., in late October to present their research and compete in hands-on team challenges to demonstrate their skills in critical thinking, collaboration, communication and creativity.

The finalists competed in hands-on challenges at the Smithsonian Environmental Research Center, at Georgetown University School of Medicine and with partners from the Computer History

Museum. They presented their research to the public at the National Geographic Society, met with the White House Office of Science and Technology Policy and learned about spacesuit design for Mars missions from NASA engineer Lindsay Aitchison. Two top-level awards were introduced in 2016, sponsored by the Lemelson Foundation and the Robert Wood Johnson Foundation. Eleanor Sigrest was named the winner of the Samueli Foundation Prize (\$25,000) for her project analyzing the best angles for cold fusion rockets. Aria Eppinger received the Robert Wood Johnson Foundation Award for Health Advancement (\$20,000), Kaien Yang was named the winner of the Marconi/Samueli Award for Innovation (\$10,000) and Nathan Deng received the Lemelson Award for Invention (\$7,500).

**“A kid can dream big – especially for the benefits of those in poor and developing countries. The award also inspired me to continue engineering and coming up with new ideas, so yes, it encourages me to continue researching.”**

**NATHAN DENG, 2016 BROADCOM MASTERS FINALIST, WINNER OF THE LEMELSON AWARD FOR INVENTION**

### MIDDLE SCHOOL STEM CHAMPIONS

Opposite page, clockwise from left: 2016 Broadcom MASTERS Samueli Foundation Prize winner Eleanor Sigrest; red team members Aalok Patwa, Olivia Lazarik, Sienna Fink, Daven Yadav and Shreya Ramachandran; Davia Allen shares her project at the Science and Engineering Project Showcase; purple team members Aria Eppinger, Anushka Naiknaware, Lucas Ritzdorf, Rachel Pizzolato and Nathan Deng.

### 2016 MACARTHUR FELLOW

Dianne Newman is an alumna of the 1987 and 1988 International Science and Engineering Fairs. She received a 2016 MacArthur Fellowship for her work merging methods and approaches from disparate fields to investigate the co-evolution of bacteria and their environments. She received a B.A. (1993) from Stanford University and a Ph.D. (1997) from the Massachusetts Institute of Technology. Dianne is the Gordon M. Binder/Amgen Professor of Biology and Geobiology in the Divisions of Biology and Biological Sciences as well as Geological and Planetary Sciences at the California Institute of Technology.



### Competitions



# ENGAGING ALUMNI THROUGH COMPELLING PROGRAMMING

The Society's alumni community is composed of more than 60,000 alumni of its science education competitions who are thought leaders and innovators of all ages and from all industries. Through events, professional development activities and volunteer opportunities, the Society engages alumni with each other and with the wider world, empowering them to become leaders in their chosen fields.

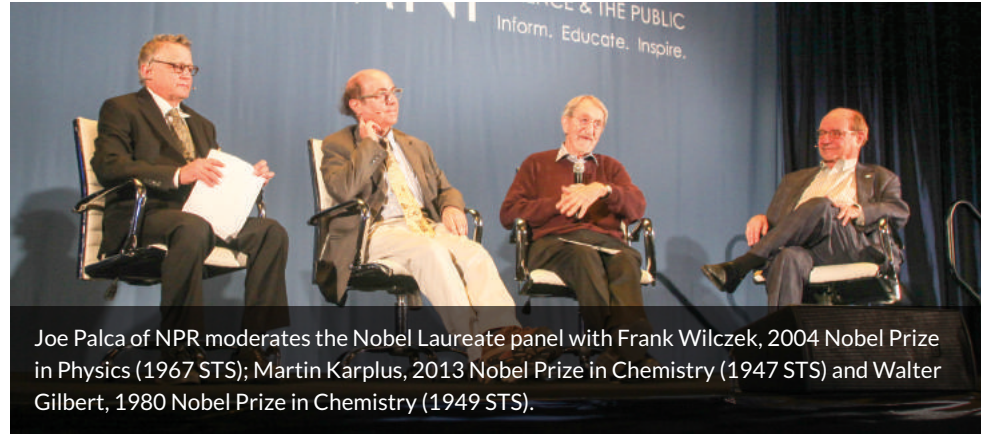
2016 was an exciting year for the Society's alumni community. In addition to commemorating the 75<sup>th</sup> anniversary of the Science Talent Search competition with an inaugural alumni conference, the Society's alumni community hosted nine events nationwide and welcomed 3,500 students who participated in its various science programs. The Society was also thrilled to celebrate the achievements of several Society alumni for their work and contributions to their fields and to the global community.

### Stanford Signature Alumni Event

In 2016, the Society hosted its first West Coast Signature Alumni event at Stanford University. The evening began with a welcome reception and opening remarks by Stanford University President Marc Tessier-Lavigne and Society President & CEO Maya Ajmera (1985 STS). The highlight of the evening featured a distinguished panel of alumni entrepreneurs and innovators, followed by a book signing with panelist Nina Vasan (2002 STS, 2002 ISEF), author of *Do Good Well*.

Clockwise from top right: Maya Ajmera moderates a panel with Nina Vasan, Rajen Sheth (1994 STS and 1992-1994 ISEF), Meredith Lee (2000 ISEF), Benjamin Jun (1992 STS) and William Bencze (1985 STS and 1984 ISEF); alumni attend event; Nina Vasan signs her book.





Joe Palca of NPR moderates the Nobel Laureate panel with Frank Wilczek, 2004 Nobel Prize in Physics (1967 STS); Martin Karplus, 2013 Nobel Prize in Chemistry (1947 STS) and Walter Gilbert, 1980 Nobel Prize in Chemistry (1949 STS).



Feng Zhang (2000 STS)



Lisa Randall (1980 STS)



Eva Emerson moderates the Basic Research panel with Lisa Steiner (1950 STS), Ted Hoff (1954 STS), Leroy Hood (1956 STS), Debra Elmegreen (1971 STS) and Soojin Ryu (1990 STS).



Frank Wilczek (1967 STS)



Gayle Edlund Wilson (1960 STS)



Richard Harris of NPR moderates the Entrepreneurship panel with Paul Maddon (1977 STS), Daniel Skovronsky (1991 STS), Bob Sproull (1964 STS), George D. Yancopoulos (1976 STS) and Hayley Bay Barna (2001 STS).



Maya Ajmera (1985 STS) moderates the Scientific Leadership panel with Erika Ebbel Angle (1999 STS), Gayle Edlund Wilson (1960 STS) and Mary Sue Coleman (1961 STS).

Competitions



# SOCIETY ALUMNI SHARE THEIR STORIES

The Society continued its celebration of the 75<sup>th</sup> anniversary of the Science Talent Search with its first STS Alumni Conference on March 16, 2016, at the Marriott Marquis in Washington, D.C. More than 200 alumni and friends gathered to hear panel discussions on scientific leadership, entrepreneurship

and basic research by alumni who have been recognized for their contributions to science as top researchers and Nobel Laureates. (Please see the pictures to the left to learn more about the panelists.) Featured speakers included Feng Zhang (2000 STS; 1998 and 1999 ISEF), The James and Patri-

cia Poitras Professor in Neuroscience at the McGovern Institute for Brain Research at the Massachusetts Institute of Technology, and Lisa Randall (1980 STS), Frank B. Baird, Jr. Professor of Science on the physics faculty of Harvard University.



Robert Lynch, an alumnus from the 1<sup>st</sup> STS in 1942, joins the festivities.



New 2016 STS alumni Amol Punjabi, Demetri Maxim and Rachel Mashal attend the Alumni Conference.

“Being an STS finalist at the age of 17 was a defining moment in my life – that realization was renewed at the STS 75<sup>th</sup> Anniversary celebration.”

GAYLE EDLUND WILSON (1960 STS)

### RADIANT RUMP

Male peacock spiders know how to work their angles and find their light. The arachnids, native to Australia, raise their derriere — or, more accurately, a flap on their hind end — and shake it to attract females. Recent research reveals how the hairlike scales covering the spiders' bodies produce their vibrant colors.



# SCIENCE NEWS MEDIA GROUP



“I love *Science News*... The coverage is credible and accessible — I share the links with the community college classes I teach... I think you guys are doing a great job.”

DENISE SIGNORELLI, MICROBIOLOGY TEACHER AND SOCIETY MEMBER

*Science News* | DECEMBER 24, 2016

### MAKING WAVES

Scientists have been searching for gravitational waves for decades. Discussions of these subtle signals from dramatic and distant phenomena appear dozens of times in the *Science News* archives, starting as early as the 1950s. Their long-awaited discovery, the top story of 2016, touched off the celebration of a new era in astronomy.

# MAKING WAVES WITH COMPELLING STORIES

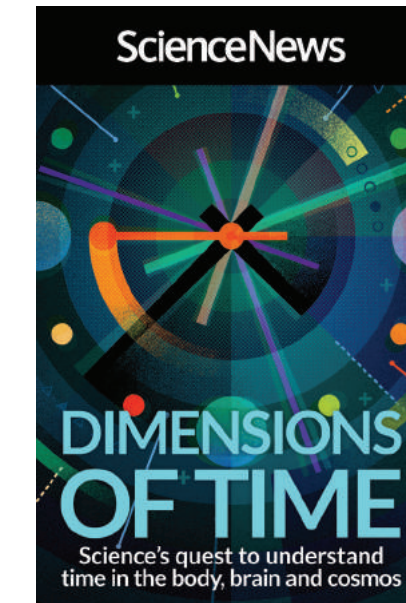
For more than 90 years, *Science News* has been the go-to source for surprising and important reporting on the latest research and scientific developments. In 2016, our stories reached 120,000 subscribers and more than 12 million visitors online, with a growing social media audience that includes nearly 2.2 million followers on Twitter and 2.7 million on Facebook. In partnership with a leading publisher in China, we also released five collections of *Science News* stories in Chinese in 2016.

“I appreciate the simplicity you are trying to put into science,” longtime reader Jim Cook wrote to us in 2016. “I have read, I am reading and I will be reading *SN*.”

Our commitment to covering scientific advances is now more important than ever. From the horrifying havoc brought by the Zika virus, to the ethical challenge of three-parent babies, to the transformative potential of gene editing, *Science News* tracked the intimate link between scientific and societal advancement in 2016. A special issue titled “Aging’s Future”

explored whether aging can be delayed, how the brain ages and why some organisms might not age at all. An accompanying video answered the question “What is aging?,” while three writers participated in a Reddit Ask Me Anything that led to detailed conversations about telomeres and real-world aging treatments. In a special report on the Zika virus, *Science News* broke ground by presenting the evidence linking Zika to microcephaly and investigating the leading strategies for mosquito control.

Also in 2016, *Science News* was among the first to report what was widely considered the biggest physics discovery in a decade — the direct detection of gravitational waves. With a scoop from a trusted contributor, *SN* put together an unprecedented special report that won the Imagination Award for innovative content from the Association of Magazine Media. *SN* brought the finding to a wider audience with a video introduction to gravitational waves and an e-book. Together, the components highlighted the wonders of the natural world and the thrill of discovery.



### FROM THE ARCHIVES

In 2016, *Science News* published four e-books with publishing partner Diversion Books. Each book collected the best articles — both breaking news and features — from the magazine’s nearly 90-year archive. The titles provide a deep history of compelling topics, from the nature of time to studies of consciousness. *Dimensions of Time* explores the mystery of time’s one-way flow and the biology of circadian clocks.



# ONLINE FAVORITES OF 2016

*Science News* published more than a thousand stories online in 2016, attracting the attention of more than 12 million visitors. The list below includes some of the most popular news and blog posts.

## Popular stories from the magazine

- 1 E-cigarettes linked to new health risks**  
New studies reveal legions of health risks from vaping, including damages to sperm, heart and mental health (SN: 3/5/16, p. 16).
- 2 He stress, she stress**  
Men and women react to stress differently, and the root may be messaging within the brain (SN: 1/23/16, p. 18).
- 3 Microbes and the mind**  
Our bodies are having a conversation with our microbiome that may be affecting our mental health — for better or worse (SN: 4/2/16, p. 22).
- 4 Constant connections**  
New units based on fundamental properties of the universe will make measurements more precise (SN: 3/5/16, p. 24).
- 5 Down in the mouth**  
Scientists suspect microbes on the gums can cause a range of diseases from arthritis to cancer (SN: 4/16/16, p. 18).

## Popular blog posts

- CONTEXT | TOM SIEGFRIED**  
**A new 'Einstein' equation suggests wormholes hold key to quantum gravity**  
ER=EPR summarizes new clues to understanding entanglement and spacetime (SN Online: 8/17/16).
- SCIENCE TICKER | EMILY CONOVER**  
**Four newest elements on periodic table get names**  
Discoverers of elements 113, 115, 117 and 118 chose names of people and places (SN Online: 6/8/16).
- GROWTH CURVE | LAURA SANDERS**  
**Should C-section babies get wiped down with vagina microbes?**  
Babies who bypass the birth canal may be missing out on health-protecting bacteria (SN Online: 3/30/16).
- SCICURIUS | BETHANY BROOKSHIRE**  
**Sometimes busting myths can backfire**  
Scientists could be doing more harm than good when they address outlandish theories, research says (SN Online: 2/14/16).
- WILD THINGS | SARAH ZIELINSKI**  
**Nature has a dog problem**  
Free-roaming domestic and feral dogs are among the worst offenders for extinguishing wild species, among other ecological impacts (SN Online: 9/30/16).
- CULTURE BEAKER | RACHEL EHRENBERG**  
**GMO isn't a four-letter word, but it is hard to define**  
Labeling genetically modified foods is harder than it sounds, given the variety of and discord over modification practices (SN Online: 2/5/16).

# HONORS AND OUTREACH FOR 2016

Major societies and organizations recognize the quality of *Science News*. *SN* stories received high honors and awards and *SN* staff were invited to participate in important outreach.

## Science News won two awards from Folio in 2016 for two of its most outstanding efforts: "Gene drives unleashed" and "Cosmic vibrations: Special report."

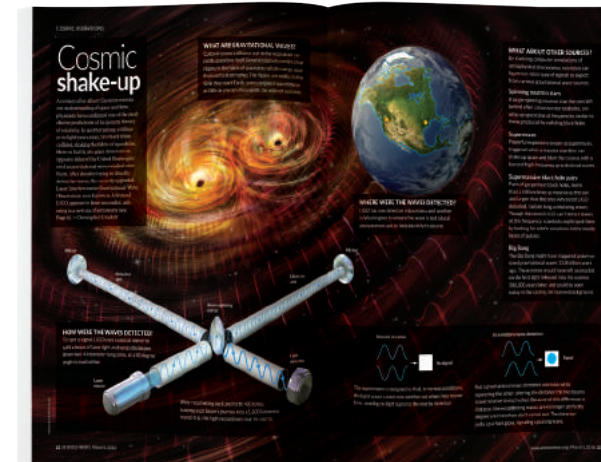
### 2016 Eddie and Ozzie Awards

#### Best Consumer Single Article, Science

- "Gene drives unleashed" by Tina Hesman Saey, Dec. 12, 2015

#### Best Series of Articles, Consumer, Science

- "Physicists detect gravitational waves" by Andrew Grant, March 5, 2016
- "Listening for gravity waves" by Marcia Bartusiak, March 5, 2016
- "Cosmic shake-up" by Christopher Crockett, March 5, 2016
- Online extra: "What are gravitational waves?" produced by Helen Thompson



## Science News immortalized in dictionary

"Merriam-Webster Unabridged" uses several *SN* writers' sentences in its newly expanded online dictionary to demonstrate the usage of technical terms.

"Brain images of healthy people reveal that **A-beta** plaques are common, even in people who don't have dementia."  
— Tina Hesman Saey, August 16, 2008

"**Heuristics** are generally those rules-of-thumb or pieces of empirical knowledge that help to narrow a focus or search."  
— Janet Raloff, May 26, 1984

"Skipping most of the tadpole business, a **coqui** frog hops out of the egg as a miniature adult, smaller than a pea.... The apricot-size **coqui** frogs set the Puerto Rican dusk vibrating with the 'co-key, co-key' call of males."  
— Susan Milius, March 11, 2000

## Science News in the news

### Popular Science Radio

In May, writer Laura Sanders explained the link between gut microbes and mental health, and Meghan Rosen (pictured below) filled listeners in on health threats from the Zika virus and from heartburn medication.

### Science for the People podcast

On the July 29 episode, Bethany Brookshire and Tina Hesman Saey mapped out the genetics of wizardry in the Harry Potter universe and explained the phenomenon of genetic superheroes — people who carry mutations that should give them diseases but stay perfectly healthy.



“I am beyond impressed with your content, and how you make the material approachable for students without dumbing the information down. I will be sure to use your site in my class this semester! Thank you for providing a wonderful resource to encourage scientific literacy.”

CRISTEN PANTANO, PH.D., MIDDLE SCHOOL TEACHER

SCIENCE NEWS FOR STUDENTS

*Science News for Students* | JANUARY 25, 2016

#### OTTER INSPIRATION

Engineers are taking a cue from sea otters in the search for better wet suits. This rubber sheet covered with a forest of stubby structures could some day inspire “hairy” fabrics for cold-water divers. Like otter fur, the hairs would trap air next to the body to prevent frigid water from soaking the skin.

# TRANSFORMED SITE BRINGS NEWS TO STUDENTS

*Science News for Students* (SNS) brings the latest developments in science, technology, engineering and math (STEM) to anyone in middle school or older. In August 2016, the online magazine unveiled a new mobile-friendly website that also enabled educators to search for stories based on which Next Generation Science Standard each story supports.

The site’s more engaging stories and imagery helped increase the year’s traffic to more than six million visitors, representing readers in more than 120 nations.

A generous Lemelson Foundation grant in 2016 enabled SNS to boost its news coverage to include stories that showcase how science and engineering drive clever and important developments in invention and innovation.

Many other SNS stories were especially

timely. For instance, just minutes after the February 11 announcement that gravitational waves had been confirmed, SNS posted three stories describing the unusual phenomenon, how gravitational waves were identified and the long hunt for these signals that had been racing across space and time. Similarly, a few weeks after the contentious U.S. presidential election, SNS posted “Racism hurts.” This story reported on the post-election spread of racism, especially in schools.

Other major SNS stories in 2016 included “A woman’s place is in science,” which highlighted the growing participation of women in research. It was accompanied by related stories as well as 19 blog posts showcasing 150 women across all STEM fields — working on all seven continents.



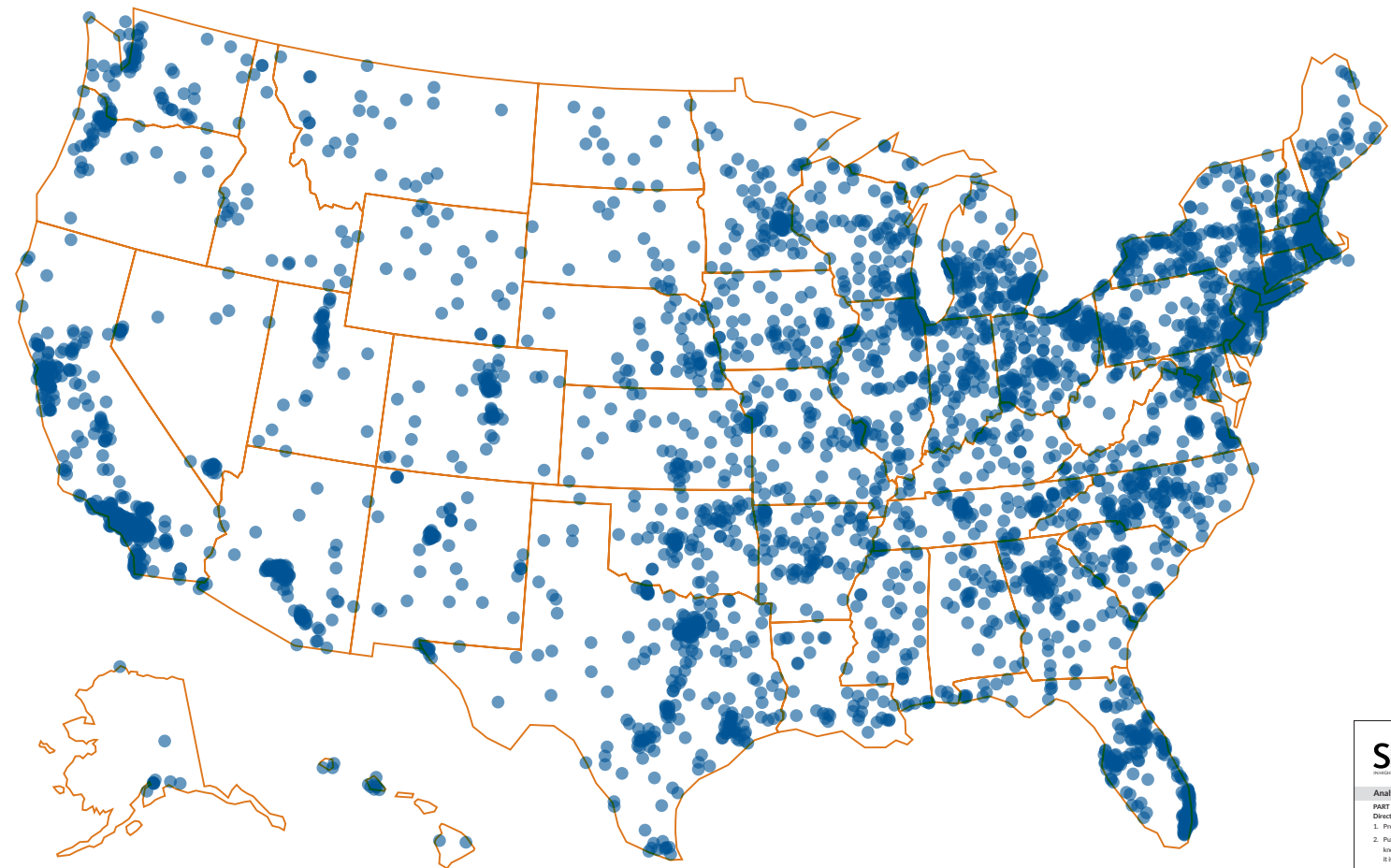
Launched in August 2016, this new website for *Science News for Students* better showcases our award-winning journalism. The new site features enhanced design elements with improved navigation, new media capability and an internal blog network.

**FISH FACE**

This forlorn-looking face of a four-day-old zebrafish embryo represents “a whole new avenue of research” for geneticist Oscar Ruiz, who studies how faces develop at the cellular level. A new technique, developed by Ruiz and colleagues at the University of Texas MD Anderson Cancer Center, mounts embryos in a gel to allow for clear, head-on pictures.



# OUTREACH & EQUITY



# TRANSFORMING SCIENCE WITH A NEW HIGH SCHOOL CURRICULUM

The *Science News* in High Schools program ensures that teachers can help their students link what they are learning in their textbooks and labs to the latest discoveries, making topics more current, relevant and understandable to inspire more young people to pursue science careers. More than four million high school students have access to the 2016–2017 *Science News* in High Schools program. In just its second year, the *Science News* in High Schools program includes more than 4,200 schools in all 50 states, the District of Columbia, Australia and the United Kingdom.

Participating high schools receive ten copies of the biweekly *Science News* magazine and digital access to online content and archives going back to 1924. In addition to award-winning scientific journalism, participating high schools receive an interdisciplinary educator guide with each issue, aligned with Common Core and Next Generation Science Standards. This offers teachers ways to incorporate the science content into their classrooms. Teachers also gain access to an

online educator community, where they are able to share ideas and best practices.

The program is positively impacting participating schools, many of which are reaching underserved rural and Title 1 students. Science textbooks are almost immediately out-of-date, whereas *Science News* in High Schools provides award-winning real-time scientific information. A survey of 1,180 subscribing teachers in 2016 found that 90 percent of educators used the program to supplement topics covered in their curricula, and 87 percent discussed current science research using the materials provided.

The Society appreciates the support of Regeneron, Arconic Foundation and Burton Family Foundation, along with the generosity of individuals, school booster clubs and even the Society's staff Annual Giving Fund, which have all sponsored schools.

4,230  
schools

in 50 states as well as Washington, D.C., Australia and the United Kingdom, participated in *Science News* in High Schools during the 2016–2017 school year

4.1  
million

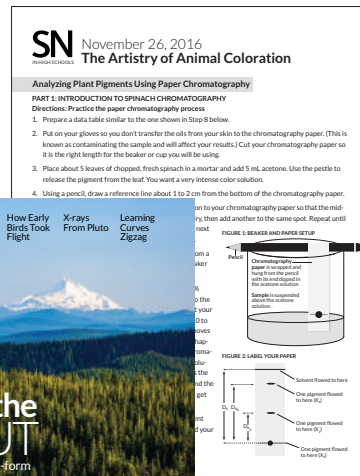
students gained access to *Science News* in High Schools program content during the 2016–2017 school year

5,390  
high school teachers

directly received the program's content during the 2016–2017 school year

**"This program has had a significant influence on my students' learning and love of science! I teach in a rural area, and *SN* has been a very important link to the real science that is occurring in the world."**

AMY KOCHENSPARGER, HIGH SCHOOL OF SCIENCE & TECHNOLOGY, OHIO



# MENTORS EXPANDING STEM PIPELINE TO UNDERSERVED STUDENTS

In 2016, the Society continued its commitment to expanding opportunities for underserved students to compete and succeed in science research competitions through the Advocate Grant Program. Advocates serve as mentors for a group of students, helping them navigate the processes involved in entering science research competitions.

In 2015, the Society piloted the program by selecting nine individuals to serve in an initial class of Advocates. With the generous support of Regeneron, Arconic Foundation and Jack Kent Cooke Foundation, the Advocate Grant Program was able to increase the number of Advocates to 31 in 2016.

In addition to a \$3,000 stipend, Advocates received an all-expenses-paid trip to Washington, D.C., for a convening event where they received additional training and support from Society staff. Throughout their term, the Advocates continued to connect with one another and with Society staff through regular conference calls as well as through an online community.

In the pilot year, Advocates recruited more than 85 students to participate in the program. Of those students, 40 completed applications for competitions. In 2016, that number grew to 500 students, with most students entering competitions, including the Regeneron Science Talent Search.

With renewed support in 2017 from Regeneron, Jack Kent Cooke Foundation and Arconic Foundation, the number of Advocates will grow, enabling the Society to reach and engage even more underserved students and help them enter science research competitions.

**“Many of my students were never encouraged to participate in science fair and they were very surprised when some of them placed first in their category. One of my girls kept on saying that she had never been first in anything in her life. She carried her trophy in her backpack for a whole week and she would show it to anyone that agreed to listen to her story!”**

ADVOCATE PRISCILLA LUMBRERAS, MCALLEN, TEXAS



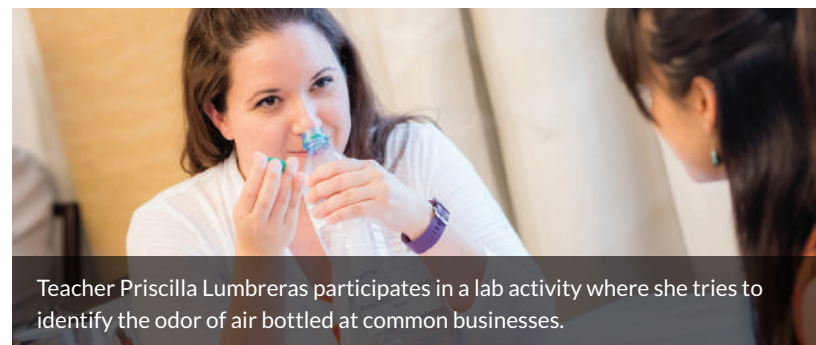
Advocate Alexa Dantzer's students compare samples while working on their research at Emory University.



Society Advocates Tom Schmedake and Sakinah Ellickson listen as a veteran research teacher shares ideas on how to keep students engaged in research.



Society Advocate Lynne Muhammed who works with underserved students in Chicago Public Schools, attends the convening event.



Teacher Priscilla Lumbreras participates in a lab activity where she tries to identify the odor of air bottled at common businesses.



Advocate Elizabeth Proctor helps her students set up an experiment for their research projects.

# COMMUNITY BUILDING AT THE RESEARCH TEACHERS CONFERENCE

“The conference itself was a spectacular experience... I brought back a ton of things for my students, which I utilized immediately.”

MITCH CHARKIEWICZ, SUFFIELD, CONNECTICUT



Michele Zielinski takes notes.



Horace Walcott and Lisa Ranney discuss the benefits of the new SNS website.

RESEARCH TEACHERS CONFERENCE



Peggy Veatch listens during a conference workshop.



Research Teacher Conference participants Paul Strode, Cheryl Kirby-Stokes, Lisa Fridman and Julio Rodriguez review the program.



Rebecca Grella, Barbi Frank and Jennifer Gordinier share insights.



Shaniece Mosley enjoys the conference.

The Society’s annual Research Teachers Conference, sponsored by Regeneron, doubled in size in 2016, bringing together 200 STEM research teachers from 45 states across the U.S. The Society brings these teachers to Washington, D.C., with all expenses paid, for a weekend of sharing best practices, troubleshooting challenges and connecting with other teachers for future collaboration. It has become clear that this conference is building a support system for research teachers that benefits them year-round.

Rebecca Nyquist, a member of Dr. Angela

Duckworth’s research lab at the University of Pennsylvania, spoke to attendees about the power of grit — passion and perseverance — and how it is both needed for, and learned from, the scientific research projects that students complete. Veteran research teachers presented on topics, such as Sustaining Research Programs on Limited Resources, Ethics in Student Science Research as well as Finding Mentors and Partnering with Universities.

Of those surveyed, 95 percent of attendees indicated that they would recommend this conference to their colleagues.

“I cannot even begin to express my full appreciation for what you do. Without Society for Science, we simply couldn’t have the positions that we have as dedicated research teachers.”

STEVE GORDON, GARDEN CITY, NEW JERSEY

“The Society’s funding of the pilot episode of *Ozone Park*, much like the theme of the show itself, helps transform our frame of reference — specifically by expanding our nonprofit’s work to include motivating the public to engage candidates for public office on key science and technology policy issues.”

NANCY HOLT, MANAGING DIRECTOR, SCIENCEDEBATE

*Science News* | AUGUST 6, 2016

#### DIRECT COLLAPSE

A remote galaxy called CR7 (illustrated) might harbor a type of black hole that arises directly from a massive cloud of gas rather than forming after the death of a star. This rare specimen could explain how some galaxies built gargantuan black holes in the first billion years or so after the Big Bang.

# NEW PROGRAM SUPPORTS STEM INNOVATORS AND TEACHERS

In 2016, the Society for Science & the Public was proud to launch a STEM Action & Research Grants program, awarding more than \$30,000 in STEM Action Grants in the first year. Through grants of up to \$5,000, the program seeks to fund community and school-based initiatives that support the Society’s mission to expand scientific literacy.

The STEM Action Grants program seeks to fund innovative, mission-driven organizations that support community-based STEM projects. Grantees should advocate for the public’s increased understanding of STEM fields; aim to spark life-long interest in STEM fields through unique programming, increased accessibility and exposure to science; and aim to increase participation of under-represented populations in STEM fields. The Society was proud to support eight innovative projects and organizations in 2016: BioBus; Georgetown Day School STEM Conference for students from D.C. public and independent schools; LITAS for Girls; ProjectCSGirls;

Sci-Inspire; ScienceDebate; Science from Scientists and a new Community Innovation Award given by the Society to students who are making a difference in their communities.

The STEM Research Grants, which will start being distributed in 2017, will support school-based science research programs by providing one-time grants to teachers who are leading students in authentic research projects. Grants may be used for equipment and travel that support students doing research. Preference is given to schools or teachers supporting multiple students in research, schools or teachers supporting low-income students or students of under-represented ethnicity, and/or programs proving sustainability beyond the current school year.

#### 2016 STEM Action Grant Recipients:

BIOBUS



LITAS For Girls

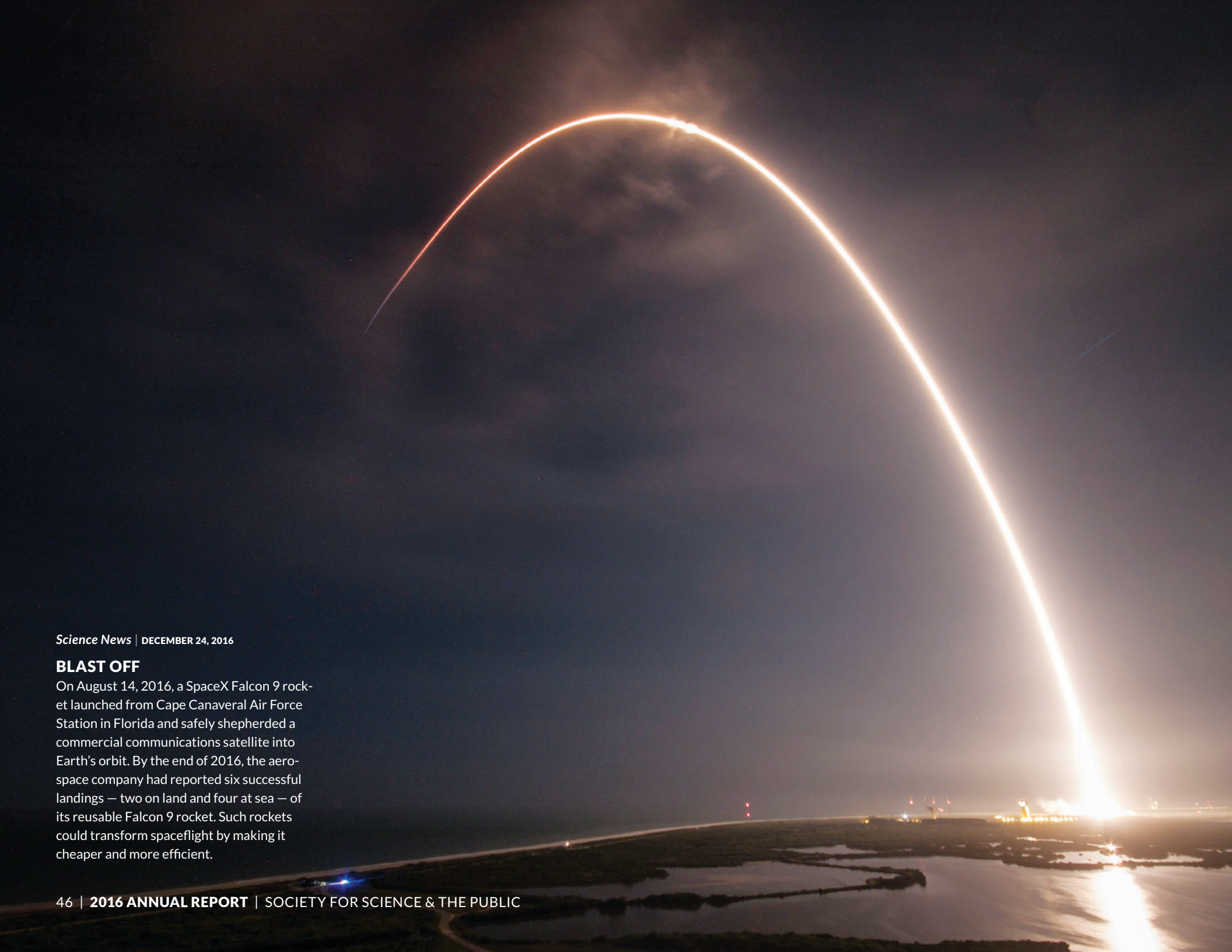
ProjectCSGIRLS

sciinspire

Science Debate







Science News | DECEMBER 24, 2016

#### **BLAST OFF**

On August 14, 2016, a SpaceX Falcon 9 rocket launched from Cape Canaveral Air Force Station in Florida and safely shepherded a commercial communications satellite into Earth's orbit. By the end of 2016, the aerospace company had reported six successful landings — two on land and four at sea — of its reusable Falcon 9 rocket. Such rockets could transform spaceflight by making it cheaper and more efficient.

# SOCIETY FOR SCIENCE & THE PUBLIC



Science News | SEPTEMBER 17, 2016

### WORLD NEXT DOOR

A world at least 1.3 times as massive as Earth appears to orbit the closest star to the sun: Proxima Centauri, a dim red orb about 4.2 light-years away. Dubbed Proxima b, the planet (illustrated) is cozied up to its star, needing just 11.2 days to complete one orbit, and has temperatures just right for liquid water, researchers report.

# FINANCIALS

The Society for Science & the Public operates within two broad areas of program work: science journalism and world-class science competitions for high school and middle school students. Ninety-one cents of every dollar spent by the Society goes to support program work. General and Administrative costs are six cents of every expense dollar, and fundraising costs are three cents of every expense dollar.

Science competitions remain a vibrant and important segment of program work, accounting for 64 percent of all program spending. The audience for the Society's science journalism continued to expand in 2016 as the digital audience grew by 14 percent. The *Science News*

website averaged 2.4 million page views per month, and social media readers have increased to more than 2.2 million Twitter followers and more than 2.7 million Facebook fans.

The print component of *Science News* magazine increased by 33 percent in 2016 due to the Society's new *Science News* in High Schools program. The program is funded through individual and corporate grants that sponsor more than 4,200 high schools with 42,000 print magazines and unlimited digital access for each sponsored school. The program serves more than 4.1 million students.

The Society's balance sheet is very healthy,

with unrestricted current assets exceeding current liabilities by \$23.2 million, yielding a current ratio of 4.6 (ratio of current assets to current liabilities). The Society carries no long-term debt and owns its primary office real estate.

The Society's investment portfolio makes up 90 percent of current assets. The investment portfolio is conservatively invested to preserve capital and minimize any downside risk.

Restricted assets (grants receivable) make up the largest asset class, which represent future funding commitments from Regeneron, Intel, Broadcom and other funders for science competitions and other program work.

## Current Year Operating Revenue and Expense

	2016	2015
<b>Revenue</b>		
Science News magazine	\$ 5,648,941	\$ 4,897,950
Science education programs	17,762,816	15,970,314
In-kind and other revenue	1,181,930	770,732
<b>Total operating revenue</b>	<b>24,593,687</b>	<b>21,638,996</b>
<b>Expense</b>		
Program services	22,558,091	20,495,020
General and management	1,471,265	1,419,375
Fundraising	814,721	645,108
<b>Total operating expense</b>	<b>24,844,077</b>	<b>22,559,503</b>

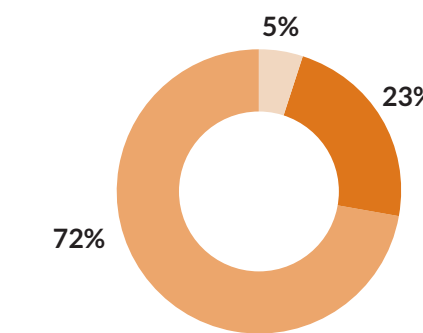
## Non Operating Activities and Pledges

	2016	2015
<b>Non Operating Activity</b>		
Investment income	1,627,399	(216,677)
Change in post retirement benefit liability	(104,149)	386,000
<b>Pledges and Contributions Designated for Future Years</b>		
Pledges and contributions received in 2016	52,742,378	12,954,080
Prior years' pledges used in current year	(18,923,015)	(15,964,261)
Change in permanently restricted net assets	25,480	(9,167)
<b>Non Operating Activity</b>	<b>35,368,093</b>	<b>(2,850,025)</b>
<b>Change in Net Assets</b>		
Net assets at the beginning of the year	65,004,368	68,774,900
Net assets at the end of the year	\$ 100,122,071	\$ 65,004,368

## Balance Sheet

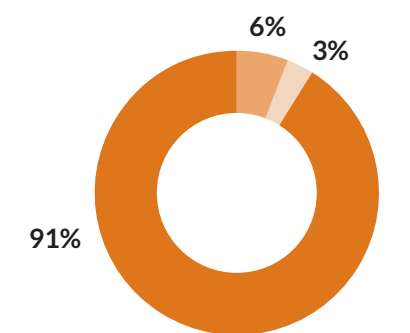
	2016	2015
<b>Assets</b>		
Cash and short term receivables	\$ 3,016,104	\$ 2,822,011
Investments	26,543,262	24,785,480
Grants receivable	78,442,518	45,532,129
Property and equipment	286,247	249,053
<b>Total Assets</b>	<b>108,288,131</b>	<b>73,388,673</b>
<b>Liabilities</b>		
Accounts payable	515,015	673,828
Awards payable	2,594,490	2,221,864
Deferred subscription revenue	3,267,555	3,880,613
Post retirement benefit liability	1,789,000	1,608,000
<b>Total Liabilities</b>	<b>8,166,060</b>	<b>8,384,305</b>
<b>Net Assets</b>	<b>\$100,122,071</b>	<b>\$ 65,004,368</b>

FY 2016 Operating Revenue

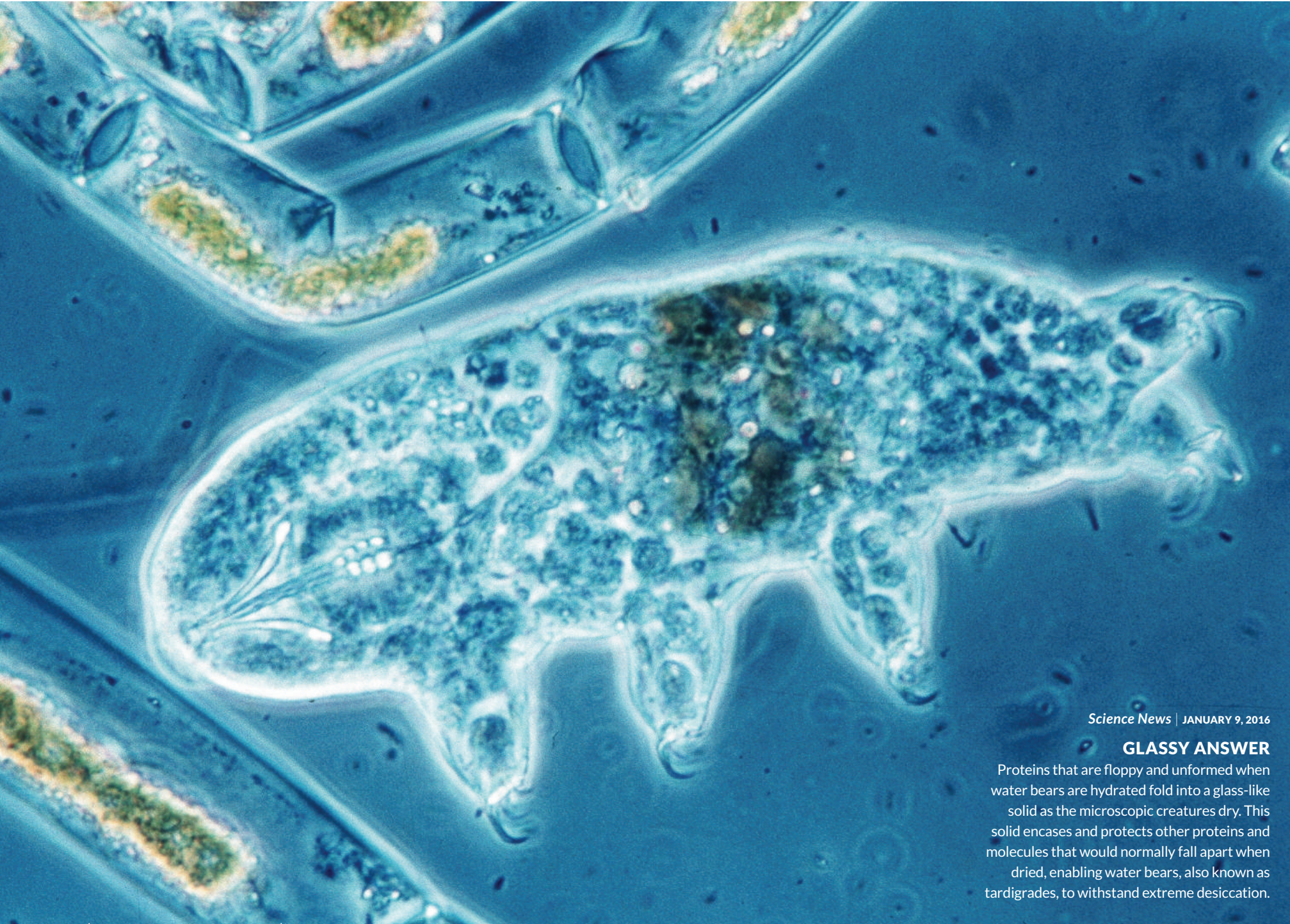


■ Science News magazine  
■ Science education programs  
■ In-kind and other revenue

FY 2016 Operating Expense



■ Program services  
■ General and management  
■ Fundraising



Science News | JANUARY 9, 2016

### GLASSY ANSWER

Proteins that are floppy and unformed when water bears are hydrated fold into a glass-like solid as the microscopic creatures dry. This solid encases and protects other proteins and molecules that would normally fall apart when dried, enabling water bears, also known as tardigrades, to withstand extreme desiccation.

# DONORS

Thank you to our generous supporters. You are champions for strong science.

## Institutional donors

### Title Sponsors

Broadcom Foundation  
Intel Foundation and  
Intel Corporation  
Regeneron

### Inventor (\$250,000 – \$999,999)

Arconic Foundation (successor  
to Legacy Alcoa Foundation)

### Developer (\$100,000 – \$249,999)

Jack Kent Cooke Foundation  
The Lemelson Foundation

### Explorer (\$50,000 – \$99,999)

Burton Family Foundation  
John S. and James L. Knight  
Foundation  
Robert Wood Johnson  
Foundation

### Maker (\$20,000 – \$49,999)

Arizona Community Foundation  
Burrroughs Wellcome Fund  
GoDaddy  
Howard Hughes Medical Institute  
Samueli Foundation  
Anonymous

### Collaborator (\$10,000 – \$19,999)

Allergan Foundation  
Ashtavadhani Vidwan Ambati  
Subbaraya Chetty Foundation  
Experience Matters  
Consortium, Inc.

### Ambassador (\$5,000 – \$9,999)

Helios Education Foundation  
KPMG  
Regeneron Matching Gift  
Program  
Southern California Edison  
The Riordan Foundation

### Associate (Up to \$4,999)

AmazonSmile  
Areté Associates  
Audrey and David Egger  
Charitable Fund at the Jewish  
Community Foundation of  
Greater Mercer  
Avnet

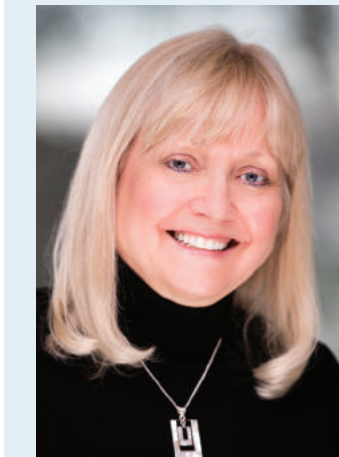
Basha Science is Fun  
Beta Squared Lithography, Inc.  
Bluestone Productions  
Breathe Utah  
California University of  
Pennsylvania Global Online  
City University of New York  
Conceptual Analytics, LLC  
CopperPoint  
Davidson Institute for  
Talent Development  
Deloitte  
Department of Natural Resources  
and Environmental Sciences -  
University of Nevada  
DigiPen Institute of Technology  
Dryden Instrumentation  
First Giving  
Freeport-McMoRan  
Glendale Unified Schools  
Grace Jones Richardson Trust  
Grand Canyon University  
Great Neck North High School  
Science Boosters  
Harvey & Leslie Wagner  
Foundation  
Healdsburg Education  
Foundation  
Hickrell Foundation  
Howat Family Foundation  
Imperial College London  
Jacksonville Science Festival  
James P. Mitchell, P.E., LLC  
Jeffries Technology Solutions  
Local Independent Charities  
Louisville Regional Science &  
Engineering Fair  
miniPCR  
Missouri University of Science  
and Technology  
New Mexico Tech  
Philomath High School  
Right Stuff Marketplace  
Rockwell Collins  
Rockwell Collins Matching  
Gifts Program  
Sacred Heart School  
Smith Family Fund  
Smith Richardson Foundation  
SRP  
Sumner High School  
Suring High School  
Technical Innovation Center  
Tellabs Foundation  
The Boeing Company Gift  
Match/BPAC Program  
The Chicago Community  
Foundation  
The Moody's Foundation  
The Richard H. Yearick  
Foundation  
The Stern Investor Relations  
Foundation

TIAA Charitable, Inc.  
Tonto Creek Camp  
U.S. Intelligence Community  
United States Patent and  
Trademark Office  
University of Toronto  
Utah Charter Academies  
Vanguard Charitable  
Verizon Foundation  
West Forsyth High School PTSA  
Yetadel Foundation  
YourCause, LLC Trustee for  
AOL, Inc.

### Intel ISEF Special Awards Organizations

Acoustical Society of America  
ADA Foundation  
American Association of  
Pharmaceutical Scientists  
American Chemical Society  
American Committee for the  
Weizmann Institute of  
Science  
American Geosciences Institute  
American Intellectual Property  
Law Association  
American Mathematical Society  
American Meteorological  
Society  
American Physiological Society  
American Psychological  
Association  
American Society for  
Horticultural Science  
American Statistical Association  
Arconic Foundation (successor  
to Legacy Alcoa Foundation)  
Arizona State University  
Association for Computing  
Machinery  
Association for the Advancement  
of Artificial Intelligence  
Astronomical Society of the  
Pacific and the American  
Astronomical Society  
ASU Rob and Melani Walton  
Sustainability Solutions  
Initiatives  
China Association for Science  
and Technology (CAST)  
Coalition for Plasma Science (CPS)  
Drexel University  
European Organization for  
Nuclear Research – CERN  
Florida Institute of Technology  
Fondazione Bruno Kessler  
GoDaddy  
Google  
IEEE Foundation  
International Council on Systems  
Engineering – INCOSE

K. Soumyanath Memorial Award  
K. T. Li Foundation Special Award  
King Abdul-Aziz and His  
Companions Foundation for  
Giftedness and Creativity  
Monsanto Company  
Mu Alpha Theta, National High  
School and Two-Year College  
Mathematics Honor Society  
National Aeronautics and Space  
Administration  
National Anti-Vivisection Society  
National Institute on Drug  
Abuse, National Institutes of  
Health & the Friends of NIDA  
NSA Research Directorate  
Office of Naval Research on  
behalf of the United States  
Navy and Marine Corps  
Oracle Academy  
Patent and Trademark Office  
Society  
Psi Chi, The International Honor  
Society in Psychology  
Qatar Foundation Research &  
Development  
Ricoh USA, Inc.  
Sigma Xi, The Scientific Research  
Society  
Society for Experimental  
Mechanics  
Society of Experimental  
Test Pilots  
SPIE, the international society  
for optics and photonics  
Synaptics, Inc.  
U.S. Agency for International  
Development  
U.S. Environmental Protection  
Agency  
United Technologies Corporation  
University of Arizona  
University of the Sciences in  
Philadelphia  
West Virginia University  
Wolfram Research, Inc.



Carol Dahl  
Executive Director  
The Lemelson Foundation

### Why we give...

“Our mission is to inspire and empower today’s students to become the inventors and problem solvers of tomorrow. The Society provides a wealth of programs that enable middle and high schoolers to explore ideas that address the challenges they see in the world and their communities.”



## Individual donors

### Champion Circle Visionary (\$100,000+)

Tom Leighton

### Innovator (\$50,000 – \$99,999)

Craig Barrett

### Medalist (\$10,000 – \$24,999)

Scott McGregor and Laurie Girard  
Feng Zhang

### Scholar Circle

#### Chair (\$5,000 – \$9,999)

Marcian Hoff

#### Professor (\$2,500 – \$4,999)

Maya Ajmera and David Hollander  
William Bencze  
Rob Chang  
Jim and Laurie Clark  
Mary Sue Coleman  
Leroy Hood  
Alan and Agnes Leshner  
Stephanie Pace Marshall  
Nancy J. Peltzer

Hal Schmitorst  
Robert W. Shaw, Jr.  
Thomas Washburn  
Frank Wilczek  
Anonymous

#### Candidate (\$1,000 – \$2,499)

Nick Adelmeyer  
Travis Bartholomew  
Hayley Bay Barna  
Reinier Beeuwkes  
Sue Blough  
George Patrick Brady, Jr.  
William Calvin  
John F. Cassidy  
William Clendenen  
Ernest Condon  
James Cooper  
Robert Cowen  
Thatte Dayte  
Sara Driver  
Gordon Freeman  
Bruce Gould  
John Grabbe  
Robert Hagge  
E. A. Higgins  
H. Robert Horvitz  
Erica Ide  
Samuel P. Kafoury  
Frank R. Kerr, Jr.  
James T. Kirk  
Thomas Knight  
David J. Krupp  
George Landau  
Gordon Large

Judith Lee  
Thomas Luken  
Bruce Makous  
George P. Markin  
Chris McDonald  
Mary Meagher  
Dianne Newman  
Adele Richardson Ray  
Dave Rigsby  
Beth and Russ Siegelman  
Marian and Abraham Sofaer  
Christopher Sonnack  
Priscilla Spears  
Lisa Steiner  
Matthew A. Stewart  
Lawrence Stifler  
Mary Stroh-Twichell  
John Turtle  
William Wallace  
William and Sandra Warburton  
Linden H. Welch  
Gayle Wilson  
Nelson Ying  
Anonymous (3)

#### Fellow (\$500 – \$999)

Laura and Paul Atwood  
Allan and Merry Avery  
Andrew and Linda Banta  
Richard Barnes  
Mona Baumgartel and John Debeer  
Michael Beursken  
James Biggs  
C. John Blankley  
Ernest Brooner  
Linda Brown  
Ron and Michelle Burch  
Bryan Cashion  
Park Chamberlain  
Martha Clatterbaugh  
David Cox  
Dorothy K. Dean  
Erik and Beverly DeBenedictis  
Michael DeRosa  
Thomas Detman  
Penelope Drawbridge  
Reginald Dufour  
James and Anita Dulak  
Gene Eldridge  
Marlin Eller  
Michela English  
Julia Espel and Ken Chang  
David Finfrock  
Cynthia French  
Peter Furia  
Bill Galcher  
Phil George  
Dean Gerber  
Michele Glidden  
Robin Halford  
Harlan Halma  
Jon and Belva Hauxwell  
Lenwood Heath  
Brian Hennessey  
Tessa Hill  
Charles Hoffman  
Donald Holly and Lorraine Gardner  
Margaret Hudson  
Judith and Brian Hunderfund  
Robert J. Janes  
Thomas Jemison  
Richard Jenkins

Barry E. Jones  
Brian Joseph  
Jerry Kickenson  
Dean Kopesky  
Terrence Kramer  
David Leckey  
Dennis Lehman  
Patricia Litton  
George and Roseann Lorefice  
Robin Lorenz  
Michael and Mary Lubin  
Linda Mar  
David March  
Christopher and Catherine Mathews  
Robert McFarland  
Robert Messerschmidt  
Mary Stroh-Twichell  
Slavko Milovancevic  
Cynthia Minar  
Paul Misener  
Robert Mong  
Nikolai Ortiz  
Terrence Pegula  
John Petersen III  
Robert Potthoff  
Professor Linda S. Powers  
Lon Radin  
John Roach  
George Rodormer  
Leonard Rosi  
Susan Scott  
Joel and Janine Shaw  
Ross Simons  
Pete Skeggs  
Alfred Spector  
Susan Staugaitis  
Daniel Sullivan  
Dan Sulzbach  
Carol Swartz  
Bernard Tagholm  
Anthony R. and Young Tepedino  
Trudie Thompson  
Jane Turner  
Roy Underhill  
William Underwood  
Jearl Walker  
David Wdowiak  
Jean Weigert and Dan Millstein  
Virginia Wight  
Bennet Yee  
Jonathan Zinsmeyer  
Marian Zlotkiewicz  
Anonymous (6)

#### Discoverer (\$250 – \$499)

Allan Abrahamse  
H. M. Addikison  
Nancy Aiello  
Rachel and Elijah Alper  
Zayed Al-Thani  
Erika Angle  
Janet Asimov  
Maya Bailoor  
Patricia Baird  
Paul Heermans  
Alex Bantz  
Alan Barak  
Tom Baruch  
Paul Bayless  
Brad Berg and Ramona Rolle-Berg  
Jeff Berwick  
Erik Bilello  
Andras and Elena Bodoni  
Donald Boos

Fred Borcherding  
Katherine Borgen  
Amy Bouska  
Arlene Brandwein  
David Brookshire  
Ray A. Bucklin  
Charles Burger  
Jeff Kodosky  
Thomas Casten  
John Chatham  
Andrew Chong  
Gilbert and Swainia Cochran  
James Cockrum  
Kathlene Collins and David Lowenstein  
Janice Conaway  
Tom and Stephanie Conroy  
Crawford Cooley  
C. K. Crawford  
Carline Crevecoeur  
Starrett Dalton  
Andrew Daubenspeck  
Judy DeLoache  
John Delodder  
Sonce Devries  
George Diamantis  
Lori Dostal  
George F. Drake  
Leonard Duda  
Adriana Elefante  
Richard Elick  
Jeffrey Eppinger and Francesmary Modungo  
Erick Erickson  
Matthew Evans  
Arthur Falk  
Donna Farley  
Charles Feeney  
Russell Fernald  
Roger Fitzharris  
Harold Folley and Jennie Negin  
Sandra Fonville  
William F. Pickard  
Gerry Pocock  
Alexander Power  
Doug Redelman  
Barbara Renshaw  
Henry Roe  
Krista Roney  
David Ruppert  
Sean Rynne  
D. Sammataro  
Fred Sauter  
Hollis Scarborough  
Walter Schreiner  
Ben Schwieger  
Nicholas Seachord  
Robert See  
Peter Shawhan  
Terry Shuman  
Vincent Siravo  
Grazia Smith  
Leslie Smith  
McLaurin Smith  
Rachael Solem  
Frederick and Mary Ann Stewart  
Ann J. Strawn  
Robert Struble  
Kent Stuiber  
Blake Thalacker  
Drew Titone  
Richard Treitel  
Dean Trester

Julia Kalmus  
Nolan Kamitaki  
Esther Kepplinger  
Michael Klein  
Michael Klobucar  
Peter Klose  
Steven Knapp  
Jeff Kodosky  
Daniel Kovarik  
Martin and Susan Kozak  
Julie and Marc Kummel  
Milton Lackey  
Alexander Lane  
Marke Lane  
Richard Larson  
E. P. Lee  
Kevin Li  
Peter R. Limburg  
Peter Lin  
Rudolf Loeser  
Thomas L. Logan  
Robert Lynch  
Barbara Magnuson  
Tyler Mahy  
Anita Marlowe  
Duncan Maru  
Aaron Massey  
Brent McCown  
Thomas McGivern  
Dennis W. Monson  
Dick Moore  
Annie Murray  
Lex Nakashima  
Stephen Nelson  
Gregory Norton  
Russell Noyes  
Thomas Ognibene  
Diane Ostojic  
Joe Palca  
William Parker  
Harry Partridge  
Wayne Pfeiffer  
William F. Pickard  
Gerry Pocock  
Alexander Power  
Doug Redelman  
Barbara Renshaw  
Henry Roe  
Krista Roney  
David Ruppert  
Sean Rynne  
D. Sammataro  
Fred Sauter  
Hollis Scarborough  
Walter Schreiner  
Ben Schwieger  
Nicholas Seachord  
Robert See  
Peter Shawhan  
Terry Shuman  
Vincent Siravo  
Grazia Smith  
Leslie Smith  
McLaurin Smith  
Rachael Solem  
Frederick and Mary Ann Stewart  
Ann J. Strawn  
Robert Struble  
Kent Stuiber  
Blake Thalacker  
Drew Titone  
Richard Treitel  
Dean Trester



Feng Zhang  
Poitras Professor  
in Neuroscience, MIT  
(1998 and 1999 ISEF; 2000 STS)

### Why I give...

“By looking into and harnessing life’s diversity, we can develop technologies that have the potential to profoundly improve our lives. The scientific curiosity nurtured by my participation in the Society’s Science Talent Search and International Science and Engineering Fair have been instrumental for my work.”

J. and C. Truebe  
William Unertl  
Pete and Gina Van Opens  
Lydia Villa-Komaroff  
Robert Walker  
Bradford Walters  
Robert Watson  
Karen and Richard Watts  
Larry Wehr  
Charles Weiss  
John Wetzel  
Robert Williams  
John J. Wilt  
Kenneth Witherly  
George J. Young  
Chia Yun Yang  
Patricia Zalo  
Glenn Zwanzig  
Anonymous (11)

### Researcher Circle Investigator (\$100 – \$249)

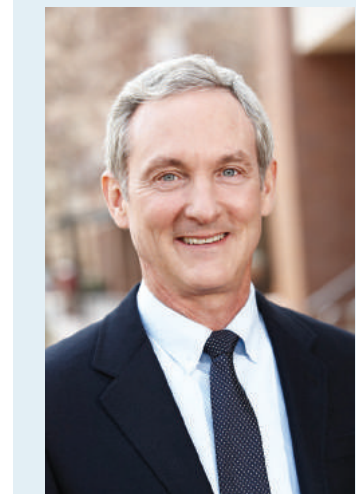
Martyn Abbott  
Helen Acland  
John Adams  
William Barker  
Elwood Barnes  
William Barnes  
Samuel Butcher  
Laurentiu Buzdugan  
Joseph Byers  
Robert R. Caddel  
Howard Barton  
Paul and Lavonne Batalden  
Marion Bauman  
James R. Beacham  
Larry W. Allen  
William C. Allen  
Elizabeth Allison  
Susan Almy  
Marie Aloia

Ellis K. Bennett  
W. Bennett  
M. A. Benning  
Jolene and Ron Berg  
John Bergin  
Geoffrey Berresford  
Donald K. Berry  
Richard Berry  
Reid Bicknell  
Andrew Bicos  
Ted Biggerstaff  
Bruce Bilodeau  
Richard Birkebak  
Kenneth Blair  
Robert Bloomer  
Stephen Blumenkranz  
Charles Boardman  
Brian Bock  
James Boddy  
Benett Bolek  
William Bolhofer  
Robert D. Bond  
Joan K. Bonner  
David J. Borchert  
Teodoro Bordador  
Sidney “Buddy” Bounds  
Marian Boutet  
Cindy Bowers  
Barbara Bowman  
Sandra Bowman  
Thomas and Catherine Boxleiter  
Donald Boyd  
Norman Boyd  
K. Z. Bradford  
L. B. Brainerd  
David A. Brashear  
Greg Breen  
John Bretney  
Orlie Brewer  
Robert Ellis  
Bill Brideson  
Joel Brind  
Billy Britton  
J. Broadhead  
Robert Brobst  
Martin Broeske  
Shari Brooks  
Carl Brown  
Alec Arshavsky  
Jack D. Arters, Ed.D.  
Parker Ashurst  
Hawkin Au  
Daniel Babitch  
Diana and Charles Bain  
Charles D. Baker  
John Baker  
William Baker  
Marian Baldy  
Matthew Ballard  
Bibhuti Banerjee  
John Barbis  
Jack D. Barchas, M.D., and Rosemary A. Stevens, Ph.D.  
William Barker  
Elwood Barnes  
William Barnes  
Samuel Butcher  
Laurentiu Buzdugan  
Joseph Byers  
Robert R. Caddel  
Howard Barton  
Paul and Lavonne Batalden  
Marion Bauman  
James R. Beacham  
Larry W. Allen  
William C. Allen  
Elizabeth Allison  
Susan Almy  
Marie Aloia

Ross B. Carlson  
Marilyn Carpenter  
Quentin Carpenter  
Douglas L. Carroll  
Michael Carstensen  
John Case  
Bill and Ian Cash  
Peter Castro  
Dr. F. M. Caudie  
Wayne Cedidla  
Santanu Chakraborty  
Jason Chamberlain  
Barbara Charebak  
Mark Chatinsky  
Scott Cheney  
Jin Cheng  
T. N. Chin  
Richard Churchill  
Alan Citron  
David Clair  
Boyd Clampitt  
Kathryn Clancy  
John E. Clarke  
Malcolm Cleaveland  
Jack Clemons  
Peter Cline  
Christopher Clouse  
L. S. Cobb  
Charles Cockerell  
Rebecca Cole  
David and Margaret Conover  
Jana L. Cook  
Kilian Cooley  
Leon Cooper  
Roger Cooper  
Leisa Corbett  
Craig Corbitt  
John Correia  
Gary Cortright  
John Costopoulos  
Pamela L. Coville  
T. S. Cowles  
Peter H. Coy  
Matt Craig  
R. Criswell  
James and Audrey Crockett  
Richard Croley  
David Crooks  
William Cruce  
Mike Cuchna  
Fred Cunningham  
Madeleine Cunningham  
Everett Dade  
Carina Dalton-Sorrell  
Peter Brownscombe  
Donald Brundirks  
Nolan Danchik and Hynda Kleinman  
Jerry A. Darsey  
Thomas F. Davis, Jr.  
Philip De Barros  
Jack DeBaun  
John DeBorde  
Martin DeGeorge  
Beth Delaney  
P. M. Delaubenfels  
Joseph Demer  
Barbu Demian  
Steve Deng  
Rolf and Judy Dercum  
Florence Derosé  
Don Derthick  
Susan Derus  
Robert Desiderato  
Tamar di Franco  
John Dickerson

David Dinger  
John Dishion  
Matthew M. Dismer  
Dana Ditmore  
Casiano Fontanez  
Russell Forbess  
Gianmarc Formichella  
James Forrest  
Ned and J. R. Forrester  
Jeff Fortwengler  
Wayne Foster  
Dale A. Fournier  
Bob Fox  
Charles H. Fox  
Robert Fox  
Anthony Frank  
C. E. Frasch  
John C. Fraser  
Leif Fredin  
Carl Freeman  
John Edward Freeman  
Quida Freeman  
Danny Freitas  
Alan French  
Cary Frumess  
Delmer H. Fuchs  
Lorraine Furjanick  
Glen Gaddy  
Linda Gallagher  
M. Gaman  
Tony Gambacurta  
Steven Gardell  
Allan Garfield  
Srinivas Garimella  
Larry Garmezy  
Mary Garnett  
David Garrett  
Donald L. Gasho  
Gregory Gbur  
Judy Geer and Richard A. Dreissigacker  
David Gentry  
Samuel George  
William Gerber  
Robert Gerzoff  
Steven Gestrich  
Lawrence Gettleman  
A. J. and Jessica Garrett  
David Giandomenico  
Charles Gibbs  
Jeffrey Gibbs  
Tom and Judith Gielow  
Sue Gier  
Antonia Gilligan  
Jean Gillmer  
Gerald Ginsburg  
Allen Ginzburg  
William and Lorna Glausinger  
Fred Glover  
Ruth L. Gokel  
Arthur Goldberger  
Mary Helen Goldsmith  
Paul K. Goldsmith  
Mark Goldstein  
Mari Golub  
Chris Gondeck  
Jan Gong  
Frederick Goodfellow  
Tom Goodwin  
Michelle Gooze-Miller  
Felice Gordis  
Leonard H. and Judith M. Gordy  
Karen Gottmann  
David Grade  
Thomas Gray  
Michael A. Grayson

J. Flaherty  
Theresa Fleming  
Maribeth Fletcher  
Casiano Fontanez  
Russell Forbess  
Gianmarc Formichella  
James Forrest  
Ned and J. R. Forrester  
Jeff Fortwengler  
Wayne Foster  
Dale A. Fournier  
Bob Fox  
Charles H. Fox  
Robert Fox  
Anthony Frank  
C. E. Frasch  
John C. Fraser  
Leif Fredin  
Carl Freeman  
John Edward Freeman  
Quida Freeman  
Danny Freitas  
Alan French  
Cary Frumess  
Delmer H. Fuchs  
Lorraine Furjanick  
Glen Gaddy  
Linda Gallagher  
M. Gaman  
Tony Gambacurta  
Steven Gardell  
Allan Garfield  
Srinivas Garimella  
Larry Garmezy  
Mary Garnett  
David Garrett  
Donald L. Gasho  
Gregory Gbur  
Judy Geer and Richard A. Dreissigacker  
David Gentry  
Samuel George  
William Gerber  
Robert Gerzoff  
Steven Gestrich  
Lawrence Gettleman  
A. J. and Jessica Garrett  
David Giandomenico  
Charles Gibbs  
Jeffrey Gibbs  
Tom and Judith Gielow  
Sue Gier  
Antonia Gilligan  
Jean Gillmer  
Gerald Ginsburg  
Allen Ginzburg  
William and Lorna Glausinger  
Fred Glover  
Ruth L. Gokel  
Arthur Goldberger  
Mary Helen Goldsmith  
Paul K. Goldsmith  
Mark Goldstein  
Mari Golub  
Chris Gondeck  
Jan Gong  
Frederick Goodfellow  
Tom Goodwin  
Michelle Gooze-Miller  
Felice Gordis  
Leonard H. and Judith M. Gordy  
Karen Gottmann  
David Grade  
Thomas Gray  
Michael A. Grayson



Tom Leighton (1974 STS)  
Co-Founder and CEO, Akamai

and provided an environment of innovation and invention which ultimately inspired the creation of Akamai.”

### Why I give...

“Solving the world’s biggest problems starts with inspiring the next generation through the appreciation of science and the vital role it plays in human advancement. The Society provides the ideal environment for students to tackle these challenges. The Science Talent Search was a big part of my growth as a student,

George Green  
 Jerry Green  
 Moulton Green  
 Paul Greeney  
 John Grefenstette  
 Joyce E. Griffith  
 Eric Gritzmacher  
 Susan Grobman  
 David Gross  
 Stephen Gross  
 Robert T. Grossman  
 James P. Grover  
 James R. Guerino  
 Anvita Gupta  
 Jim Haber  
 Michael G. Hadfield  
 F. D. Haldane  
 Ellis H. Hall  
 Tanya Hall  
 Bertrand Halperin  
 Kimball Halsey  
 Stan Halvorson  
 Robert Hamilton  
 Dale Hammerschmidt  
 H. G. Hammon III  
 Glenn Hammons  
 Barbara Hampton  
 James Hanko  
 Beverly Hansberry  
 Gordon Hanson  
 Jon Harbaugh  
 Danille Harder  
 Lawrence Hardy  
 Yasser Hareb  
 Agnes Harp  
 Jeremy Harris

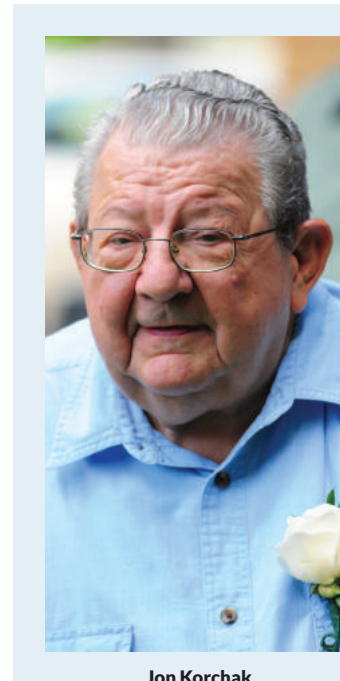
B. Hart  
 Daniel K. Hartine  
 A. Hartkopf  
 R. A. Harvey  
 Mack Hassler  
 Elizabeth R. Hatcher, M.D., Ph.D.  
 Daniel A. Hauptman  
 Gary Heaney  
 Daniel Heintz  
 Cary Hellman  
 Ed Helmer  
 Charles Helmick  
 Rich Hencke  
 Leon Hendee  
 Brian Henkel  
 Vincent Hennessy  
 Richard Hennings  
 James Herman  
 Band S. Herrick  
 Dudley Herschbach  
 Brad Hershey  
 A. C. Heston  
 Art Hicks  
 Nancy Higbee  
 Thomas Higgins  
 Douglas Hill  
 Norris D. Hill  
 Robert A. Hill  
 Richard Hillman  
 Linda and Steven Hipsman  
 Bryan Hodgson  
 Ted Hoff  
 Walter Hoge  
 Jeff Holden  
 Edson P. and Mary E. Holland  
 J. Hollstein

Pat Holman  
 Charles Holst  
 Diane Honeysett  
 Ellen Honsa  
 Brian Hooker  
 Elizabeth R. Hatcher, M.D., Ph.D.  
 Laura Hope  
 M. Hopkins  
 Paul Horn  
 William Hoskinson  
 Ed Helmer  
 Philip Houck  
 Jim Houghton  
 F. W. Houston  
 Peter and Charlotte Howell  
 George Hrycelak  
 John Huehnergard  
 Patrick Hui  
 R. W. Hungate  
 Rosalyn R. Hurley  
 Kathleen Hurrle  
 John Hussey  
 David Inverso  
 Gordon Irving  
 Eriko Isaac  
 Geoff Iverson  
 Marguerite Iverson  
 John G. Iwachiw  
 B. Scott Jackson  
 Richard Hillman  
 Linda and Steven Hipsman  
 Bryan Hodgson  
 Ted Hoff  
 Walter Hoge  
 Jeff Holden  
 Edson P. and Mary E. Holland  
 J. Hollstein

R. Kern  
 Thomas Kerwin  
 Larry Kessler  
 Mark Ketterer  
 Robert Kieckhefer  
 Isaac Kikawada  
 Tim Killen  
 Yoon Soo Kim  
 Michael Kimps  
 Charles King  
 Kenneth King  
 Louis Kirby  
 Andrew Kitchen  
 Mary J. Klay  
 Mr. Klumb  
 Ronald Knecht  
 Frank Knight  
 Robert Knoll  
 Ralph Koldinger  
 Gregory Konesky  
 Kenneth G. Konz  
 Stanley Korenman  
 R. Kosinski  
 Matt Kowitt  
 Ludwig Krchmak  
 Robin Krivanek  
 John Kronholm  
 Eric Krupka  
 Thomas C. Kuchenberg  
 Francis Kuhlen  
 Karl Kuhn  
 M. Kuppusami  
 T. W. Kurczynski  
 Andrew Kurtz  
 Carl Kurz  
 Marc Kusinitz  
 Sally Kutzner  
 William Kwinn  
 Christina Lacey  
 Mae-Deil Lacy  
 Alvin Lamarre  
 Joan D. Lambert  
 Ralph Lambert  
 Barbara Lambird  
 Esther Landhuis  
 Larry Langenberg  
 Nancy Lanning  
 Earl E. Lanter  
 Caryla J. Larsen  
 William Lascurettes  
 Kim Laselle  
 Dr. Jose R. Latimer  
 Charles L. Lawless  
 Richard Leblanc  
 Michael Leboffe  
 Paul Lee  
 Rachel and Ferrol J. Lee  
 Scott A. Lee  
 Bob Leet  
 Roger Lefco  
 Evan Leland  
 Will Leland  
 Carl Lemp  
 John Leone  
 Andrew Lerner  
 Chris Leslie  
 David Lesnini  
 Thomas Meadows  
 William Meadows  
 Gerrit Meddeler  
 Richard Meetz  
 Murray Meisels  
 Carol Meligan  
 Marli Melton  
 E. A. Meng  
 Ram Menon  
 Jon C. Merkle

Thomas A. Linkhart  
 David Lipnick  
 Arni Litt  
 James Little  
 Ron Little  
 John Livingood  
 Martha Lockhart  
 James Loddengaard  
 D. E. Lofstrom  
 Ernie and Santana Lopez  
 Alfonso López  
 Robert Losada  
 Lynn Lozier  
 Stephanie Mills  
 Bradley B. Milner  
 Carroll Missimer  
 Gordon Mitchard  
 Robert Moates  
 R. and G. Moehrke  
 James Mohr  
 Wenda Monger  
 Patricia Monteith  
 James Moore  
 R. A. Moore  
 Tom M. Moran  
 Patricia W. Moriatry  
 Kjirste and John Morrell  
 Alfred D. Morris  
 Drew Morris  
 J. Morris  
 Daniel Morrison  
 Duane Morse  
 Robert K. Moses  
 Richard Moss  
 Scot Moss  
 Jim Mossor  
 Teri Motley  
 Dan Moulding  
 Nancy Moulding  
 Ernest Moy  
 George Mueller  
 Susan Mulrone  
 Carolyn Murphy  
 Denise Murphy  
 Philip Myers  
 Daniel Mytelka  
 Derick Naef  
 T. R. Neet  
 David Nelson  
 Nanette M. Nelson  
 Robert M. Nelson  
 William Nelson  
 Robert Nevin  
 Jack Newman  
 Robert Newton  
 James N. Neyman  
 Ray J. Nichols  
 Heidi Nicholson  
 John M. Nicholson  
 Elena Nightingale  
 Richard H. Nimitz  
 Wanita Norgard  
 Mike Normandin  
 Phyllis S. Norris  
 Victor Norton  
 Thomas Nowak  
 Stomas Nowak  
 R. G. Peterson  
 Bryan and Sarah O'Donnell  
 Mark Oldenburg  
 John Oliver  
 Jean L. Olson  
 Yoshiaki Omura  
 Jesse Oppenheimer  
 Jennie Orr

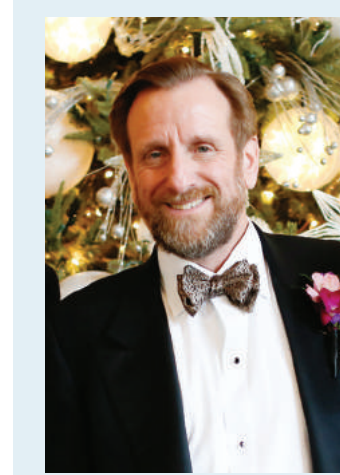
E. Merrick  
 Janice and George Merrick  
 Omez Mesina  
 James Meyers  
 Claire Meyners  
 Peter J. Meza  
 John Miaullis  
 Michael Milbouer  
 Jeffrey Miller  
 Jerry Miller  
 Louis Miller  
 Frederick Mills  
 Stephanie Mills  
 Bradley B. Milner  
 Carroll Missimer  
 Gordon Mitchard  
 Robert Moates  
 R. and G. Moehrke  
 James Mohr  
 Wenda Monger  
 Patricia Monteith  
 James Moore  
 R. A. Moore  
 Tom M. Moran  
 Patricia W. Moriatry  
 Kjirste and John Morrell  
 Alfred D. Morris  
 Drew Morris  
 J. Morris  
 Daniel Morrison  
 Duane Morse  
 Robert K. Moses  
 Richard Moss  
 Scot Moss  
 Jim Mossor  
 Teri Motley  
 Dan Moulding  
 Nancy Moulding  
 Ernest Moy  
 George Mueller  
 Susan Mulrone  
 Carolyn Murphy  
 Denise Murphy  
 Philip Myers  
 Daniel Mytelka  
 Derick Naef  
 T. R. Neet  
 David Nelson  
 Nanette M. Nelson  
 Robert M. Nelson  
 William Nelson  
 Robert Nevin  
 Jack Newman  
 Robert Newton  
 James N. Neyman  
 Ray J. Nichols  
 Heidi Nicholson  
 John M. Nicholson  
 Elena Nightingale  
 Richard H. Nimitz  
 Wanita Norgard  
 Mike Normandin  
 Phyllis S. Norris  
 Victor Norton  
 Thomas Nowak  
 Stomas Nowak  
 R. G. Peterson  
 Bryan and Sarah O'Donnell  
 Mark Oldenburg  
 John Oliver  
 Jean L. Olson  
 Yoshiaki Omura  
 Jesse Oppenheimer  
 Jennie Orr



Jon Korchak

**Why I give...**

“I sponsor a school for the *Science News* in High Schools program in memory of my father, Jon Korchak. He was an avid *Science News* reader and used this magazine as a tool to inspire his special education classes to work through their reading disabilities. Because the content of this magazine is current and interesting, the students eagerly read them.”  
 — Judi Hunderfund



Robert Haines  
 President, Insaco, Inc.

**Why I give...**

“The International Science and Engineering Fair (ISEF) provides a great opportunity for our young people to learn how to explore the world through scientific research and inquiry. It builds a love of science and engineering in them and prepares them to take their place in the world and change it for the better. I have

been pleased to play my part for the past 20 years by serving as a leader in an affiliated science fair and as a volunteer at ISEF. It's a terrific experience.”

Howard Resnikoff  
 Robert Rew  
 Karen Reynolds  
 Robert Rhein  
 E. Rhoads  
 Mary Rich  
 P. T. Richardson  
 Gregory Richterich  
 Charles Riedesel  
 Linda Riles  
 Philip Ritchie  
 Jason Ritenour  
 Nuria Rivera  
 Ted Rivers  
 Charles Rivette  
 David Roach  
 Doug and Wendy Robbins  
 Roland Roberts  
 Daniel Robey  
 Phillip H. Robidoux  
 Michael P. Roca  
 Joan Silver  
 Chuck Rodert  
 Barbara Saylor Rodgers  
 Gerald Roeder  
 Joseph Rogers  
 Robert K. Rohwer  
 Lynn Roosevelt  
 Daniel Rose  
 Michelle Rose-Fuller  
 Mark Rosenberg  
 Margaret Rosenberg  
 David Rosenfeld  
 Arthur D. Ross  
 David Ross  
 Terry Rossow  
 Michael Rowan  
 William Rowan  
 Arnold Roy  
 Jim Roy  
 Norah Rudin  
 Dennis Ruppert  
 Marvin Russell  
 Diana Ryan  
 Richard Ryan  
 Barry Sachs  
 David Sachs  
 Carmen Salgueiro  
 Gerhard L. Salinger  
 Ronald Saltz  
 James Samis  
 Sandra D. Sandell  
 Franklin Prosser  
 Kay Purcell  
 Jill Parker  
 Kevin Parker  
 Robert Parson  
 Dave Parsons  
 Will Pastron  
 Ajay Pathania  
 Gretchen Paupore  
 Steven Pearl  
 John E. Pearson  
 Heather Peirce  
 Gregory Pepin  
 Victor Perdue  
 Lee Read  
 Cecil Reaves  
 John H. Rediske  
 Aaron Reed  
 Dan Reed  
 Douglas Rees  
 David and Krystin Reider  
 Frank Reilly  
 Tony Rein  
 Kurt Reisler

Ralph Pifer  
 Noreen Pillitteri  
 Richard E. Pillmore  
 James Pintar  
 Walter Pirie  
 Kate and Ira Pohl  
 Christopher Poje  
 John Porter  
 William Porter  
 Larry Potthoff  
 Stephen Prata  
 Franklin Prosser  
 Kay Purcell  
 Jill Parker  
 Kevin Parker  
 Robert Parson  
 Dave Parsons  
 Will Pastron  
 Ajay Pathania  
 Gretchen Paupore  
 Steven Pearl  
 John E. Pearson  
 Heather Peirce  
 Gregory Pepin  
 Victor Perdue  
 Lee Read  
 Cecil Reaves  
 John H. Rediske  
 Aaron Reed  
 Dan Reed  
 Douglas Rees  
 David and Krystin Reider  
 Frank Reilly  
 Tony Rein  
 Kurt Reisler

Gerry Seck  
 Salvador Sedita  
 C. and H. Seibert  
 Terrence J. Sejnowski  
 Mary Severinghaus  
 Temmie Shade  
 Tony Shallin  
 Caroline Shamu  
 Narendra Shankar  
 Sadasivan Shankar  
 John Shannon  
 Michael Shaw  
 Jian Shen  
 Chuck Sherman  
 Claire Sherwood  
 Rajen Sheth  
 Glen Shipley  
 H. Shookhoff  
 Harry Short  
 Scott Shumack  
 Edward Sichterman  
 Joan Silver  
 Carl Silvrants  
 Katrina Wynkoop Simmons  
 Diana Simoni  
 Kimberly Simpson  
 Om Singla  
 Michael Sitko  
 Linda Skory  
 Arthur Slater  
 Barrett Slenning  
 David Small  
 Sari Small  
 Bill Smith  
 Jennifer Smith  
 Julie Smith  
 K. A. Smith  
 Karl Smith  
 M. W. Smith  
 Patrick Smith  
 Sherri Smith  
 Stephen L. Smith  
 Kristi Snell  
 Allen G. Snyder  
 Sharon Snyder  
 Rachael Solem  
 Linda Sowray  
 Lynn Sparling  
 Robert Spencer  
 Russ Spickelmier  
 Nick Spitzer  
 Steven Squires  
 Michael Stambaugh  
 A. W. Stanson  
 Michael Stebel  
 Jack A. Stecher  
 Eric Steel  
 Darrell Stein  
 William Stein  
 Alan Steinberg  
 Susan Stephenson  
 Peirce Stern  
 Saul Sternberg  
 David Schey  
 John Stevenson  
 Rodney Stock  
 Michael Stoddard  
 Beth Stoedckly  
 Edward C. Stone  
 R. L. Stone  
 Tim Storey  
 Susan Streufert  
 Stephen Strommen  
 Paul Strull  
 Thomas Struzik

Thomas Sturges  
 Barb Stutting-Sattler  
 Lewis Suber  
 Frances M. Sullican  
 Nevin Summers  
 G. V. Swan  
 Roy Sykes  
 Cuiyan Tan  
 Wade Tarzia  
 Barbara Taylor  
 Paul A. Taylor  
 Tony Taylor  
 Bruce Thayer  
 David M. Thomas  
 John Thomas  
 Keith E. Thomas  
 Mathew Thomas  
 Tom Thomas  
 James Thompson  
 Mac and Elsie Thompson  
 Edward Thorp  
 Gary Tickel  
 Peter Todd  
 Michael Tomayko  
 Lisa Toombs  
 Anne Townsend  
 Margaret Tracy  
 Steven Tracy  
 Kate Travis  
 Charles Treinen  
 John Troan  
 David Trulock  
 Robert J. Twiss  
 J. A. Tyson and P. C. Boeshaar  
 Emil Unanve  
 Ron Unger  
 Lois Urban  
 Neal Van Fossan  
 M. Van Rennes  
 Eve Van Rennes  
 Phillip Vango  
 Jerrold Vannocker  
 Nina Vasan  
 David Vaughn  
 Melissa Vaught  
 Alicia Vande Ven  
 Jim Versteeg  
 Marysue Vidro  
 Carol Vines  
 Samuel Visner  
 Jane Voichick  
 Joseph A. Vrba  
 Tynan Wait  
 Leslie I. Wake  
 William and Marjorie Waldrop  
 Chalma Walker  
 Christopher L. and  
 Beth Poppe Walker  
 Gene Walker  
 Ron Wallace  
 Mark Wallach  
 Claire Walsh  
 Marion Walsh  
 Douglas Walty  
 Donna Wanless  
 Michael Warring  
 Greg Waters  
 Larry Watters  
 Josef Watts  
 Karen Wcislo  
 David F. Webb  
 Chris Wegener  
 William Weigand  
 N. Weil  
 Jeff Weiner  
 Brian Weiss

Lawrence Weiss  
 Julie Welch  
 Daniel Wellner  
 Kay Werk  
 Glenn Westin  
 David Wheatley  
 John Wheeler  
 Franklin White  
 Wesley White  
 George M. Whitesides  
 Zerman Whitley  
 George Wiggers  
 Marla Wigton  
 Susan Wiley  
 David Williams  
 Forrest Williams  
 John Williams  
 Mary Ann Williams  
 K. Willig  
 Alan Willner  
 Thomas Willis  
 William Wilner  
 Thomas Wilson  
 Victor Wilson  
 James Wink  
 Douglas Winsand  
 Rodney Winters  
 Robert E. Winton  
 Allen Wise  
 Donald V. Wise  
 Tracy G. Witt  
 Sylvia Wittels  
 Christine Wolak  
 S. Wolen  
 James L. Wolfe  
 Marion Wollmeringer  
 Richard H. Womack  
 Barbara Wood  
 Janice Wood  
 Scott Wood-Prince  
 John Woods  
 T. K. Worde  
 C. R. B. Wright  
 Shannon Wright  
 Elizabeth Wyide  
 Scott Wynn  
 John and Lavinia Ycas  
 Fancy Younglove  
 Robert Youngs  
 Jennifer Yruegas  
 Grace Ze Wang  
 Leticia G. Zertuche  
 Wei-Jing Zhu  
 Uta Ziegler  
 David Zuccaro  
 Robert Zucker  
 Anonymous (47)

**Friend (\$1 - \$99)**

J. H. Abernathy  
 Phillip Abramowitz  
 Dale Adams  
 David Adams  
 Dorothea K. Adams  
 W. Adams  
 R. H. Adamson  
 Stayton Addison  
 Linda Adkison  
 Dale Agger  
 Mercedes M. Agogino  
 Neale N. Ainsfield  
 Alfred C. Airone  
 Gordon Aitken  
 Diane Akers





James D. Robertson  
Krystal Robinson  
R. A. Robinson  
Billand Sherilyn Robison  
Michael T. Roche  
Ken Rochocki  
Roger Rock  
Mamie Rockafellar  
George and Tania Rodgers  
Alfonso Rodriguez  
Paul Roger  
Ailene Rogers  
Joseph Rogers  
Kenneth Rogers  
W. J. Rogozinski  
Abhinav Rohatgi  
Robin Rokisky  
Richard M. Romberg  
Frances P. Romeo  
Robert Romero  
Jonathan Romney  
Page S. Ronning  
Andrew Roric  
Manuel Rosario  
Mike C. Rose  
Barry K. Rosen  
Meghan Rosen  
Zach Rosen  
Jonathan Rosenberg  
Robert Rosenberg  
Martin Rosenblatt  
Michael Rosenfeld  
Stephen Rosenfeld  
David Rosenkrantz  
Elliott Rosenstein  
George Rosevear  
Jonathan Rosner  
John Ross  
Robert Rost  
Donald M. Rote  
Margaret H. Roth  
Susan Roth  
Ken Rothman  
Shannon Roushey  
Weston Rowan  
Gail Rubman  
Thomas Rudy  
James Rumbaugh  
Peter Russel  
David R. Russell  
Malcolm Russell  
Patricia Russell  
Patricia C. Russell  
Joseph Russo

Courtney Ruthven  
M. Rutkowski  
Ivy Rutzky  
Rickey Ryals  
Diana Ryan  
Meagan Ryan  
Philip Ryan  
Delfina Sabogal-Tori  
Peter Sacchetti  
Tina Saey  
Donald Saff  
W. R. Salafia, Ph.D.  
Samantha Saldana  
Marcel L. Salive  
Warren Sampson  
Robert Sanabria  
E. Sanders  
Laura Sanders  
Thomas Sanders  
Joseph Sandri  
Thomas Santangelo  
Victor Sapienza  
April Sapsford  
Jeffrey Sargent  
Elizabeth Sarkisian  
C. B. Sarmiento  
Shelley Sarvey  
Laszlo Saska  
Albert Sattin  
Jacqueline Sauls  
Paul Savage  
Sharon Sawallis  
Virginia Sawin  
Eleanor Saxon  
Frank Sayre  
W. W. Scales  
Brian Scanlon  
Heather Scanlon  
Robert Schachner  
D. M. Schaefers  
Francis Schaeffer  
Susan Roth  
Leonard Schakel  
William Scharf  
Kathryn Schaub  
Mark Schauss  
Gregory Scheckler  
Jim Scheld  
Jeff Schenck  
John Schenkel  
Penny Schenker  
John Schineller  
Steven Schlosser  
R. Schmehl

Lucy Schmeidler  
Cary Schmelzer  
Dennis Schmidt  
Marilyn Schmidt  
David Schmieder  
Dianna Schmitt  
Joseph Schneider  
Kathleen Schneider  
Rob Schneyer  
Peter Schnur  
Nicole Schober  
Robert Schoenberger  
Paul Schollmeier  
Madelyn Schorr  
Charles E. Schram  
Kelly Schrank  
Christine Schrauth  
David Schreck  
Stephen Schroder  
John Schroeder  
Ann Schubert  
Robert Schulte  
Thomas Schultes  
Richard Schultz  
Patricia Schuster  
Arah Schuur  
Ann Schwabecher  
Peter Schwandt  
D. and N. Schwartz  
Jordan Schwartzbach  
Russell Schweickart  
Scott Schwinge  
Bernard Scott  
Bruce L. Scott  
Charlie Scott  
Charlotte Scott  
David Scott  
James Scott  
Robert Scott  
Vicki Scott  
Tim Scully  
Kimberly Seagraves  
Paul Searles  
Arnold Seastrand  
Robert Seaton  
Richard Seavey  
Mohammad Sedigh  
Richard Seely  
William F. Seghy  
Jon E. Seidel  
Brian Seiler  
James Seltzer  
Tatiana Seltzman  
Julie Semp

Stephen P. Senft  
Richard E. Serota  
Jerry Sershen  
Jean-Luc Servat  
A. Frank Servello  
Michael Shannon  
Judith Shardo  
Robert Sharick  
David Sharp  
Roger W. Shaw  
William Shaw  
Way Shen and Chris George  
D. and L. Shenton  
William Shepherd  
Peter Smoyer  
Dan Snead  
David Snead  
Hayley Sneddon  
Thomas Snell  
Bryan Snyder  
Donna Sobieski  
Rodney Sobin  
Keri Sobolik  
Nancy Sodano  
Alan Solberg  
Lee Solomon  
Maureen Solomon  
Jeffrey Solow  
Eugene Sommerfeld  
Donna Sorci  
Arne Sorenson  
Ronald Soroka  
Greg Sorrells  
Eileen Southgate  
John Speed  
Craig Spencer  
Peter Sperling  
Ronald Spinner  
Robert Spivack  
Brian Springett  
Edward N. Squire  
Vijaya Sridharan  
William Stafford  
Brian Stagner  
Patrick Stair  
Robert Stalker  
Barbara B. Stalzer  
B. R. Stanton  
W. Stanton  
Fred Starheim  
F. B. Stark  
Gary Starker  
Susan Starr  
Marilyn Starrett  
William Startup

M. Stauffer  
Nancy W. Stauffer  
Joseph Stayner  
Rebecca Stearns  
Craig Steele  
Diane Steendahl  
Jim Steffen  
Barry Stein  
Ben Stein  
Mark Stein  
Richard S. Steinbach  
George Stephans  
Jackie Stephens  
M. Jane Stephenson  
Dan Sterner  
William C. Sterr  
Carl Stevens  
Gary Stevens  
Lee Stevens  
Donna Sobieski  
Darrell Stevenson  
J. S. Stewart  
John Stewart  
Kathleen Stewart  
Eric Stietzel  
Allie Stifel  
Lynn Stiglich  
Matthew Stiles  
Gary Stilwell  
David Stodola  
Brian Taylor  
Chelsea Taylor  
Martha Taylor  
Maura Taylor  
Robert Taylor  
Stan Stone  
David Storer  
Thomas Stork  
Charles Stover  
Russell Stowe  
Ron Strasser  
Ralph Straubs  
Milton Strauss  
Sarah Street  
L. Strieb  
Robert Stringer  
Tania Strishak  
Joseph Strong  
Andrew Struble  
David Stuart  
Harry Stuckey  
A. and F. Styles  
William Suhler  
Frank D. Sullivan

Thomas Sumner  
Evelyn Sun  
Michael Sundberg  
Gary Suoja  
Michael Sussna  
Susan Suter  
J. L. Sutherland  
Carolyn Suwyn  
Joe O. Swain  
Thomas Swangin  
Maria Swarts  
Gary Swergold  
Daniel Swinnerton  
Ruth Sylvester  
Richard Sylwester  
Betty Tabor  
Tucker Taft  
William Talbot  
Barbara Taller  
Stephen Talley  
Takashi Tamagawa  
Song Tan  
Wayne Tanaka  
Cheryl Tanasovich  
Joanne Taraskiewicz  
E. Taraszka  
Jeffrey Tatsumi  
Anne Tattersall  
Aubrey Tauer  
Barbara Taylor  
Brian Taylor  
Chelsea Taylor  
Martha Taylor  
Maura Taylor  
Robert Taylor  
William Taylor  
James C. Teapole  
Monica Teisberg  
Mary Teitelbaum  
Elton TeKolste  
Roger Temple  
Nancy Tennent  
Andrew Vidor  
Laura Tenorio  
Dave Thayer  
William J. Thayer III  
Ashleigh Theberge  
Jerry Thein  
Gregory Theobald  
Diana Therialt  
Lorraine Theroux  
Janet M. Thomas  
Keith E Thomas  
Marcia Thomas  
Susan D. Thomas

W. A. Thomasson  
Robert Thompson  
J. and J. Thoms  
Allen R. Thornhill  
Christopher Thorpe  
Michael Thuot  
Tracee Tibbitts  
Ronnie Tienda  
Carol W. Tierney  
James C. Tilton  
Byrre Tinney  
William S. Tjader  
Frederic L. Tolleson  
Michael Tomayko  
Kathryn Tominey  
Emilie Tomkinson  
Andrea Tompkins  
Lisa Toombs  
Eleanor and Imre Toth  
Jerald Towle  
Richard Tracey  
Jerome Tracy  
Mary Beth Train  
John Travis  
Katherine Travis  
Robert Trawick  
Arthur Treisback  
Marianne Trelogan-Shaw  
Barry Trent  
Carla Treuting  
George Trever  
Steve Trew  
John Tribuna  
Kamala Tribus  
Kim Trinklein  
Robert C. Tripp  
Paul Trudeau  
Helen Tsuda  
Igor Tsukerman  
Channing Tucker  
Diane Tully  
Andrew Vidor  
H. L. Turner  
Patricia Turner  
Roy Turner  
William Turner  
R-Laurraine Tutihasi  
R. Tweedy  
Robert J. Twiss  
Bill Tyler  
Robert Uhlmann  
Catherin L. Ullman  
Mark Underwood  
Herbert Unger

Ron Unger  
Ron and Petra Unger  
Charles A. Untulis  
Herman B. Urbach  
Benjamin Urcia  
J. A. Urik  
Michele Utterson  
Peter Valberg  
Roger Valentine  
Catherine Valentino  
James L. Van Beveren  
Richard A. Van Deusen  
Mike Van Horn  
Kevin Van Laeken  
Robert Van Voorhies  
Anthony van Westrum  
David Vanaman  
Corinne Vanchieri  
Ernest VanderKruik  
Edward VanSickle  
James Vanwyk  
Vincent Varsh  
Ashok Vaseashta  
William Vaughan  
David Vaughn  
Thomas Vaughn  
James Veale  
Margaret Velardo  
Charles Vella  
Cynthia Venn  
Madan Venugopal  
Mark Vernon  
Brenton Verploeg  
Jack Verrelli  
Jim Versteeg  
Demaris Verzulli  
Robert Veselis  
Joyce Vesper  
Sue Vicente  
Michael Victoroff  
Shari Videlock  
Andrew Vidor  
Janaki Vijayaraghavan  
Freda Vine  
Peeranut Visetsuth  
Paul Visscher  
Clarence Vogel  
Helen Vogel  
John Vogel  
Rudy Volkmann  
Louis Vontver  
Alison Voss  
Mark Vukotich  
Carl Vuosalo

Kathleen Vyborny  
Frank Wadsworth  
John Walden  
George Waldenmaier  
Steven Walgrave  
Colin Walker  
Delores Walker  
Graham Walker  
James Walker  
Margaret Walker  
Martha Walker  
Paul Walker  
R. Walk  
John Wallbank  
Cathy and Ken Walsh  
Mike Walton  
Elaine Wang  
Glenn Ward  
Walter Ward  
James Warden  
Thomas Wash  
Vincent Waterbury  
Christal Waters  
George D. Watkins  
William Watkins  
Julie Anne Watko  
Bill Watson  
David Watson  
Ralph M. Watson  
Denise Watts  
Erin Wayman  
David Wdowiak  
A. Webb  
Donald Weber  
John Weed  
W. J. Weems  
George Weiler  
Andrew Weinel  
N. Weiss  
Clark Weissman  
N. and C. Weitzer  
Philip Welch  
Steven Wellborn  
Mr. Weller  
Martin A. Welt  
Stuart H. Wemple  
James Wenck  
Christine Wendt  
Heather Werckle  
Janet Westen  
Martha Wetherholt  
Michael D. Whalen  
Gerri Whaley  
Lennard Wharton

Richard Wheatley, Sr.  
Jeffrey Wheelley  
David E. White  
George Waldenmaier  
Steven Walgrave  
Colin Walker  
Delores Walker  
Graham Walker  
James Walker  
Margaret Walker  
Martha Walker  
Paul Walker  
R. Walk  
John Wallbank  
Cathy and Ken Walsh  
Mike Walton  
Elaine Wang  
Glenn Ward  
Walter Ward  
James Warden  
Thomas Wash  
Vincent Waterbury  
Christal Waters  
George D. Watkins  
William Watkins  
Julie Anne Watko  
Bill Watson  
David Watson  
Ralph M. Watson  
Denise Watts  
Erin Wayman  
David Wdowiak  
A. Webb  
Donald Weber  
John Weed  
W. J. Weems  
George Weiler  
Andrew Weinel  
N. Weiss  
Clark Weissman  
N. and C. Weitzer  
Philip Welch  
Steven Wellborn  
Mr. Weller  
Martin A. Welt  
Stuart H. Wemple  
James Wenck  
Christine Wendt  
Heather Werckle  
Janet Westen  
Martha Wetherholt  
Michael D. Whalen  
Gerri Whaley  
Lennard Wharton

Richard Wheatley, Sr.  
Jeffrey Wheelley  
David E. White  
George Waldenmaier  
Steven Walgrave  
Colin Walker  
Delores Walker  
Graham Walker  
James Walker  
Margaret Walker  
Martha Walker  
Paul Walker  
R. Walk  
John Wallbank  
Cathy and Ken Walsh  
Mike Walton  
Elaine Wang  
Glenn Ward  
Walter Ward  
James Warden  
Thomas Wash  
Vincent Waterbury  
Christal Waters  
George D. Watkins  
William Watkins  
Julie Anne Watko  
Bill Watson  
David Watson  
Ralph M. Watson  
Denise Watts  
Erin Wayman  
David Wdowiak  
A. Webb  
Donald Weber  
John Weed  
W. J. Weems  
George Weiler  
Andrew Weinel  
N. Weiss  
Clark Weissman  
N. and C. Weitzer  
Philip Welch  
Steven Wellborn  
Mr. Weller  
Martin A. Welt  
Stuart H. Wemple  
James Wenck  
Christine Wendt  
Heather Werckle  
Janet Westen  
Martha Wetherholt  
Michael D. Whalen  
Gerri Whaley  
Lennard Wharton

Jay Woodwick  
Alison Woodworth  
Melvin Woody  
Cameron Wookey  
David S. Wooley  
Chris Worwick  
Robert Wray  
E. Wright  
Frederick F. Wright  
Larry Wright  
Robin Wickett  
Teresa Wriston  
Chaoping Wu  
Rolf Wucherer  
Charles Wurrey  
Julia Wynn  
John Yakemovic  
Fern Yanagisawa  
George Yarr  
Sally Yates  
W. M. H. Yenke  
Lewis Yobs  
Jeffrey Yoder  
Sylvia Yoshioka  
Clyde Young  
L. Stephen Young  
Rex Young  
Sidney Young  
T. E. Young  
M. Zack  
Clyde Zaidins  
Jerrold Zar  
Simon and Teresa Zarrin  
Yanina Zatuchnaya  
Becky Zehr  
Darrel Zerger  
Haotian Zhang  
Sue Ziegler  
Cynthia Zima  
Robert P. Zimmerer  
Daniel Zimmerman  
Charles Zink  
David Zipoy  
Steven Zonis  
Thomas Zurfluh  
Kathryn Zyla  
Anonymous (38)



# SOCIETY BOARD OF TRUSTEES

## H. Robert Horvitz, Chair

Nobel Prize in Medicine or Physiology, 2002  
Professor of Biology, Massachusetts Institute of Technology  
Investigator, Howard Hughes Medical Institute  
Member, MIT McGovern Institute for Brain Research  
Member, MIT Koch Institute for Integrative Cancer Research

## Alan Leshner, Vice Chair

Chief Executive Officer Emeritus,  
American Association for the Advancement of Science

## Robert W. Shaw, Jr., Treasurer

Retired President and Founder, Areté Corporation

## Paul J. Maddon, Secretary

Founder and Vice Chairman, Progenics Pharmaceuticals, Inc.  
1977 Science Talent Search  
1977 International Science and Engineering Fair

## Mary Sue Coleman, Executive Committee, At-Large

President, Association of American Universities  
President Emerita, University of Michigan  
1961 Science Talent Search  
1959 and 1960 International Science and Engineering Fair

## Maya Ajmera, ex officio

President and CEO, Society for Science & the Public  
Publisher, *Science News*  
1985 Science Talent Search

## Hayley Bay Barna\*\*

Venture Partner, First Round Capital  
Co-Founder and former Co-CEO, Birchbox  
2001 Science Talent Search

## Craig R. Barrett

Retired Chief Executive Officer/Chairman of the Board, Intel Corporation

## Sean B. Carroll

Vice President for Science Education, Howard Hughes Medical Institute  
Allan Wilson Professor of Molecular Biology, Genetics and Medical Genetics,  
University of Wisconsin–Madison

## Tessa M. Hill\*\*

Professor and Chancellor's Fellow,  
Department of Earth & Planetary Sciences, University of California, Davis

## Tom Leighton

Chief Executive Officer and Co-Founder, Akamai Technologies  
1974 Science Talent Search

## Stephanie Pace Marshall

Founding President/President Emerita, Illinois Mathematics and Science Academy

## Scott A. McGregor\*

Retired President and Chief Executive Officer, Broadcom Corporation  
Retired Chairman, Broadcom Foundation  
1974 Science Talent Search

## Joe Palca

Science Correspondent, NPR

## Vivian Schiller\*\*\*

Executive Editor-in-Residence, Weber Shandwick  
Journalism, Media and Technology Advisor  
Former Global Chair of News, Twitter

## Frank Wilczek

Herman Feshbach Professor of Physics, Center for Theoretical Physics,  
Massachusetts Institute of Technology  
2004 Nobel Prize in Physics  
1967 Science Talent Search

\*Term started in March 2016  
\*\*Term started in October 2016  
\*\*\*Term ended in May 2016

# SOCIETY EXECUTIVE TEAM

## Maya Ajmera

President & CEO  
Publisher, *Science News*  
1985 Science Talent Search

## Rachel Goldman Alper

Chief of Staff

## Rick Bates

Senior Advisor

## Kathlene Collins

Chief Marketing Officer

## Stephen Egts

Chief Design Officer

## Charles Feeney

Chief Financial Officer

## Kumar Garg

Senior Fellow

## Michele Glidden

Chief Program Officer

## Cait Goldberg

Chief of Event Planning and Operations

## Gayle Kansagor

Chief Communications Officer

## Bruce Makous

Chief Advancement Officer

## James C. Moore

Chief Technology Officer

## Elizabeth Quill

Acting Editor in Chief

# SOCIETY STAFF

## Zain Abidin

Muaz Ahmed

Daryl Anderson

Parshva Bavishi

Bruce Bower

Nancy Boyd

Michele Brenner

Bethany Brookshire

Alison Buki

Federico Castaneda

Marlena Chertock

Sarah Conner

## Emily Conover

Erin Cummins

Aimee Cunningham

Ellen Cutler

Maxine David

Emily DeMarco

Mike Denison

Lauren E. Duffy

Maurice Dunn

Jinny Farrell

Janelle Germanos

Ricardo Gortaire

## Lisa Grossman

Victor Hall

Laurel Hamers

Justine Hirshfeld

Bridgette Hudson

Lillian Steenblik Hwang

Lisa Icenroad

Ashley Johnson

Tika Juneja

June Kee

Tracy Lee

Philip Lewis

## Kristen Looney

Cassie Martin

Ed Maxwell

Susan Milius

Macon Morehouse

Nancy Moulding

Eric Nguyen

Eric Olson

Erin Otwell

Pratham Patkar

John Pierce

Lisa Proctor

## Janet Raloff

Raevathi Ramadorai

Diane Rashid

Elizabeth Remy

Anna Rhymes

Krystal Robinson

Paul Roger

Carole Russo

Tina Hesman Saey

Jordan Schwartzbach

Sabrina Scull

Sharon Snyder

## Allison Hewlett Stifel

Caitlin Sullivan

Evora Swoopes

Molly Telfer

Helen Thompson

Tracee Tibbitts

Kate Travis

Cori Vanchieri

Erin Wayman

Randy Williams

Kerwin Wilson

Sarah Zielinski

Society Executive Team and Staff as of June 12, 2017

## EDITOR OF LIFE

All eyes are on the hot new genome-editing tool called CRISPR/Cas9. Scientists have reported using CRISPR to repaint the wings on butterflies and re-engineer immune cells, for example. Some labs are editing viable human embryos. Feng Zhang, an alumnus of the 2000 Science Talent Search and the 1998 and 1999 International Science and Engineering Fairs, and one of the first scientists to wield the molecular scissors, is seeking ways to further improve the system. "Our search is not done yet," Zhang told *Science News* in 2016. "The field is advancing so rapidly."

COVER IMAGE: MCGOVERN INSTITUTE FOR BRAIN RESEARCH AT MIT



For more information, please contact:

**Bruce Makous** Chief Advancement Officer

202-872-5138 | [bmakous@societyforscience.org](mailto:bmakous@societyforscience.org)

[www.societyforscience.org](http://www.societyforscience.org) | [www.sciencenews.org](http://www.sciencenews.org)