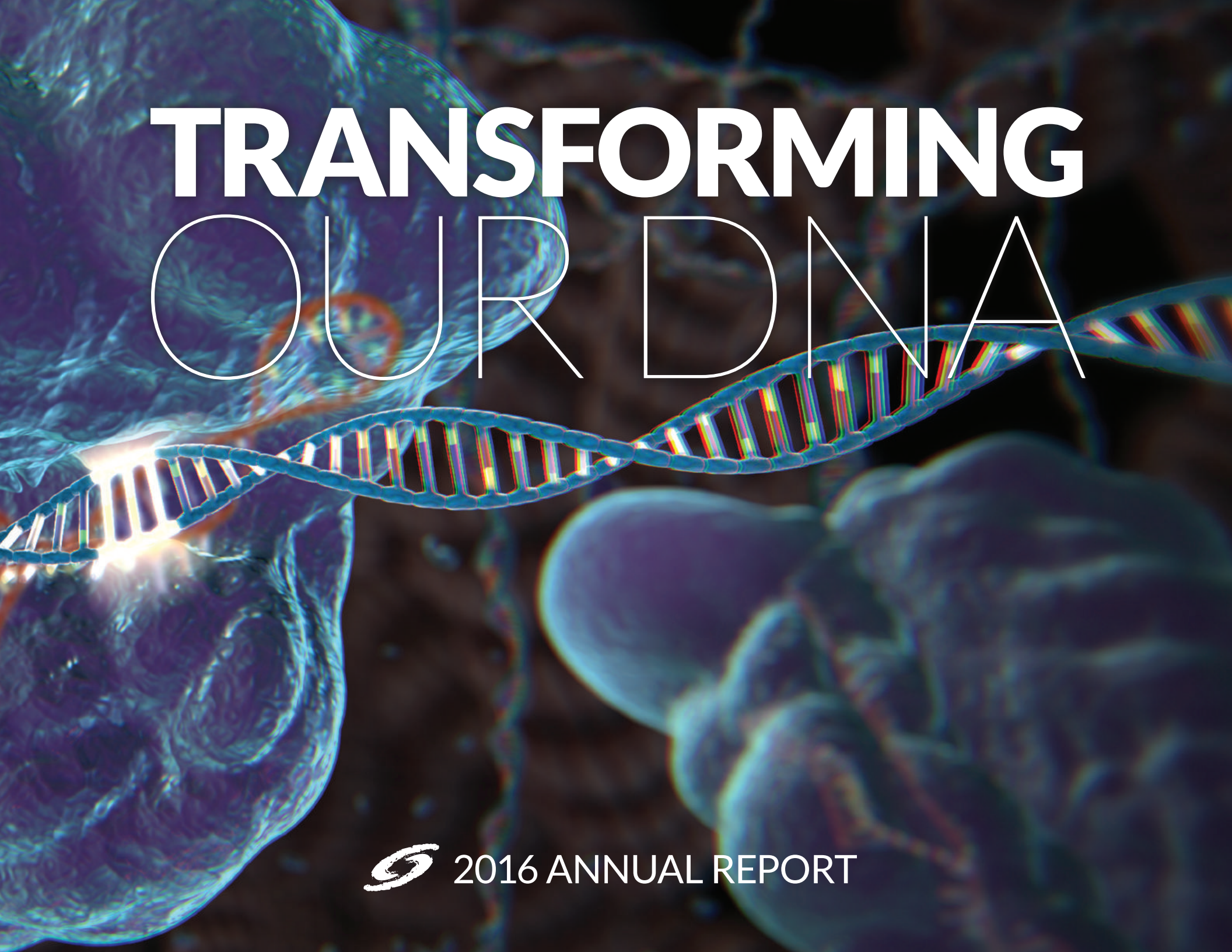
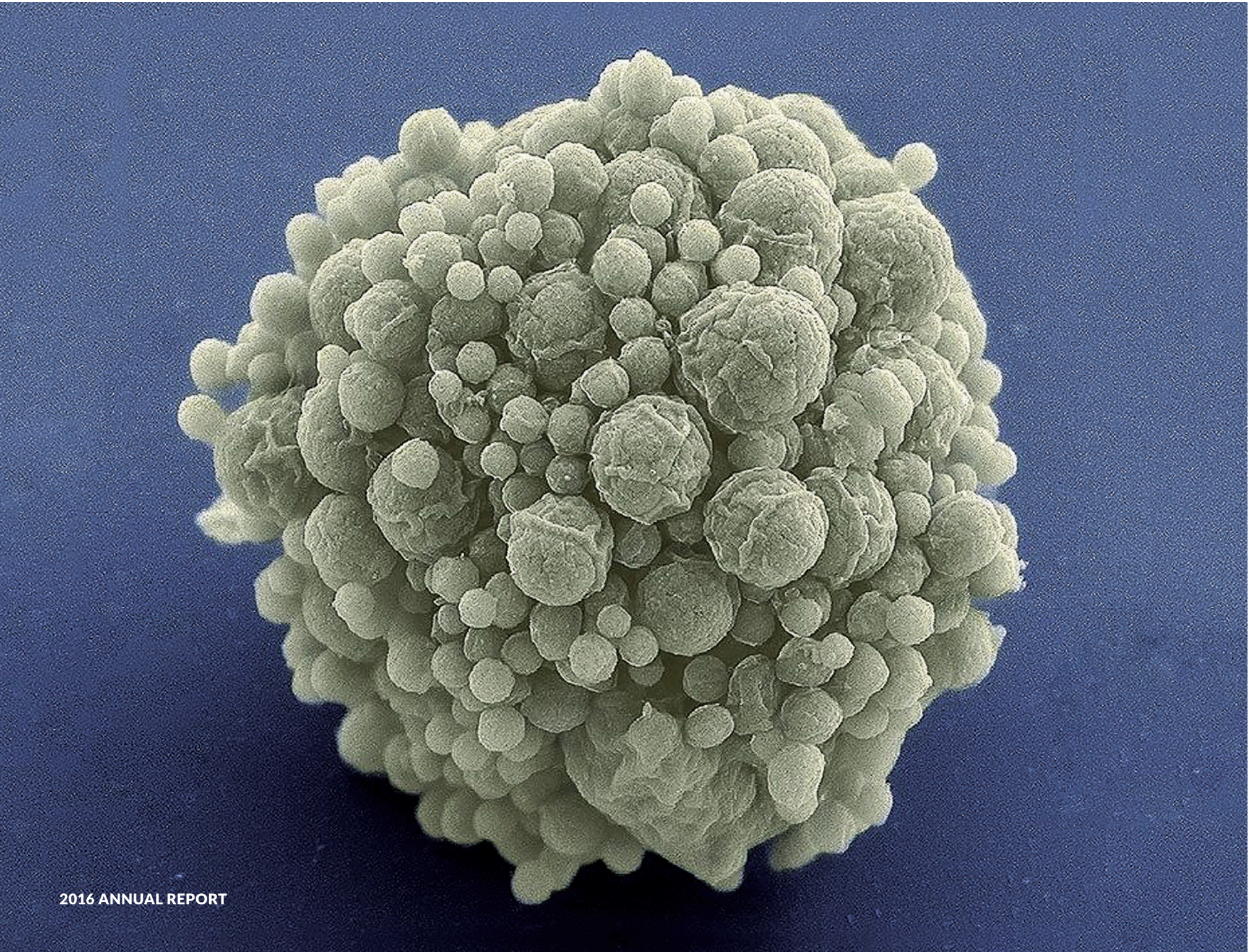

TRANSFORMING
OUR DNA
2016 ANNUAL REPORT



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

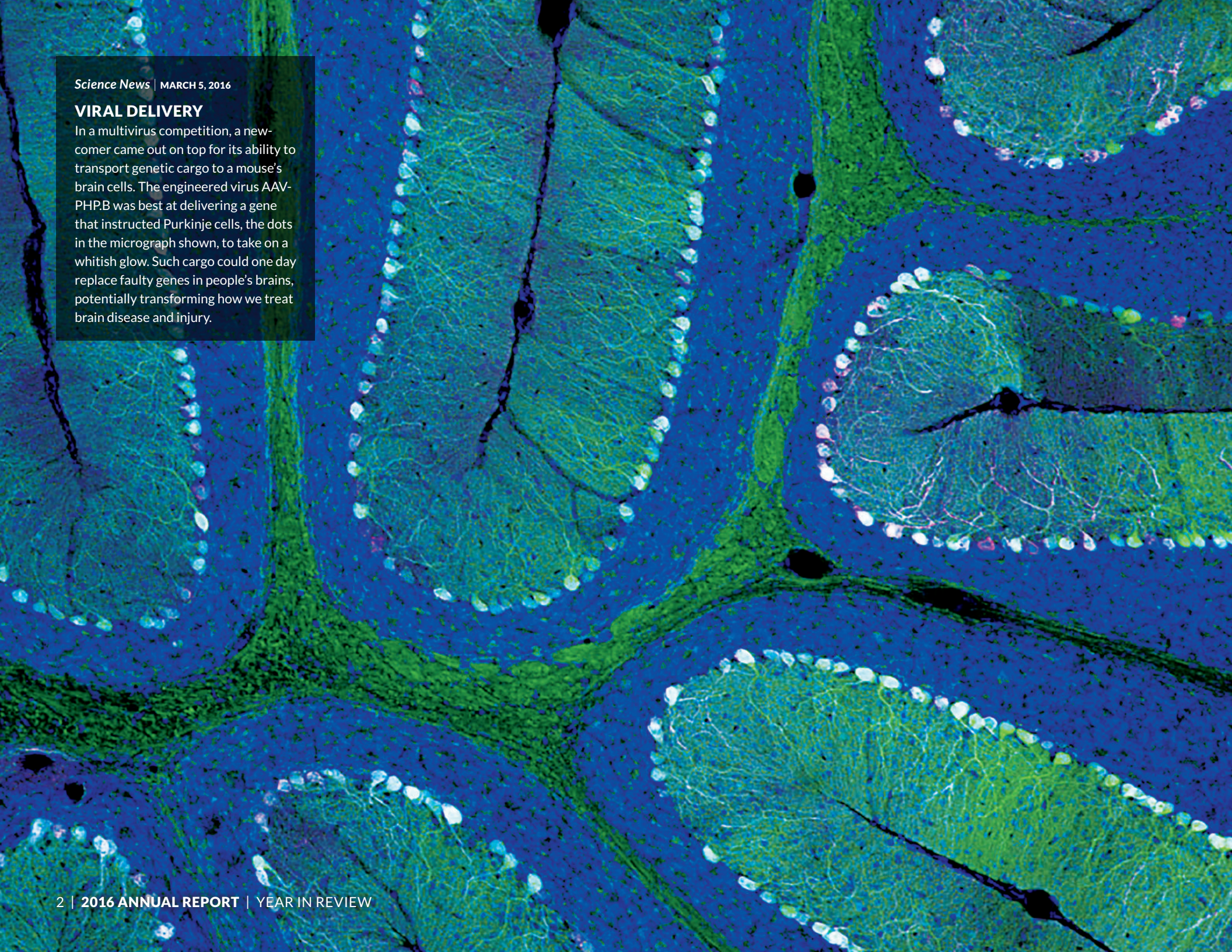
2016 Year in Review 2
Letter from H. Robert Horvitz, Chair 4
Letter from Maya Ajmera, President & CEO 6
Overview and Top Ten 8
Regeneron Sponsorship Announcement 10

2016 Society Competitions 14
Intel Science Talent Search 16
STS 75th Anniversary Gala 18
Intel International Science and Engineering Fair 20
Broadcom MASTERS 22
Alumni 24
STS 75th Anniversary Alumni Conference 26

Science News Media Group 28
Science News 30
Science News for Students 34

Outreach & Equity 36
Science News in High Schools 38
Advocate Grant Program 40
Research Teachers Conference 42
STEM Action & Research Grants 44

Society for Science & the Public 46
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 newcomer 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 75th 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.

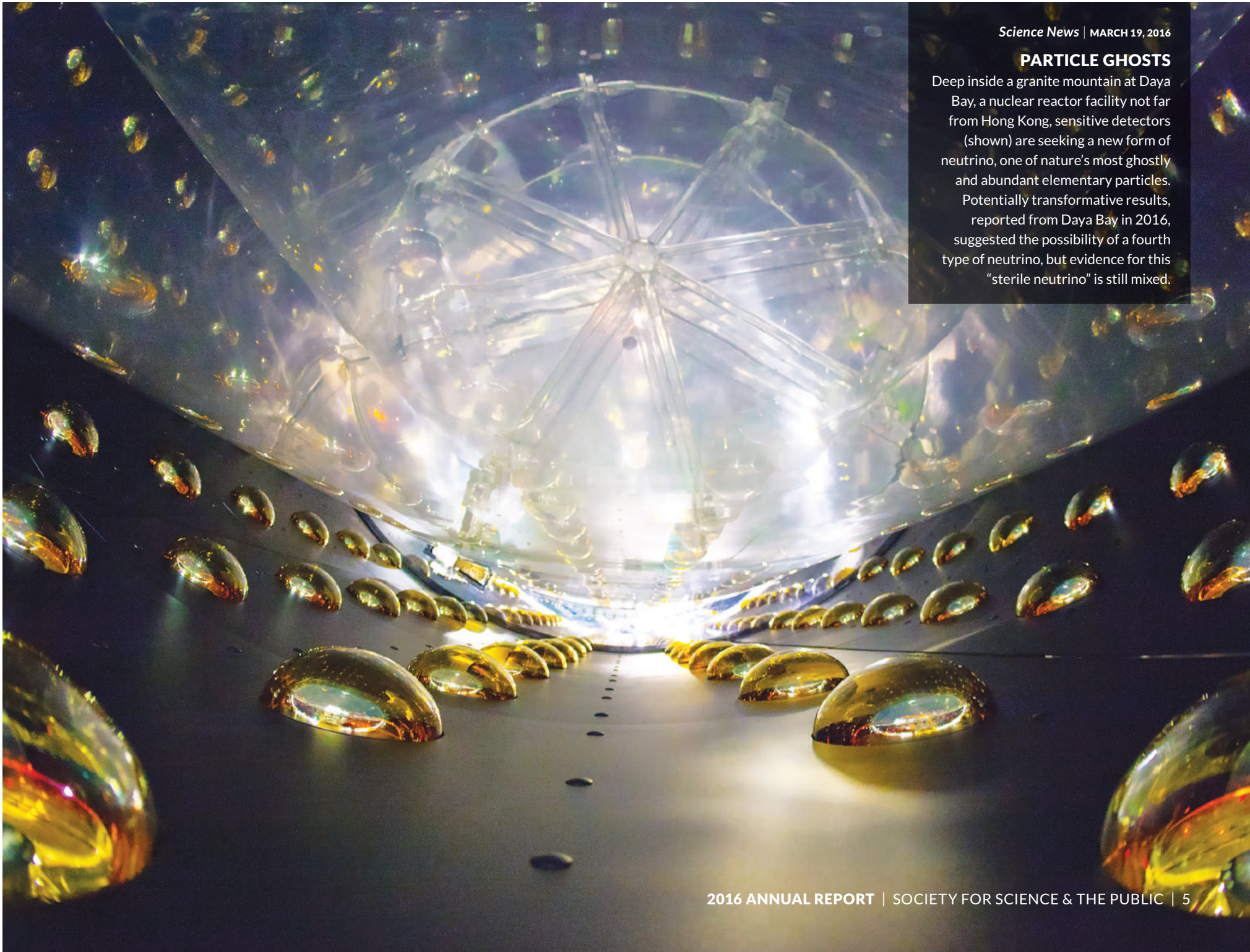
The Society welcomed three new members to our Board of Trustees in 2016: Hayley Bay Barna, Tessa M. Hill and Scott A. McGregor. Hayley is a Venture Partner at First Round Capital and Co-Founder and former Co-CEO of Birchbox. She is also an alumna of the 2001 Science Talent Search. Tessa is Associate 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 21st century.

In March, we celebrated the 75th 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.

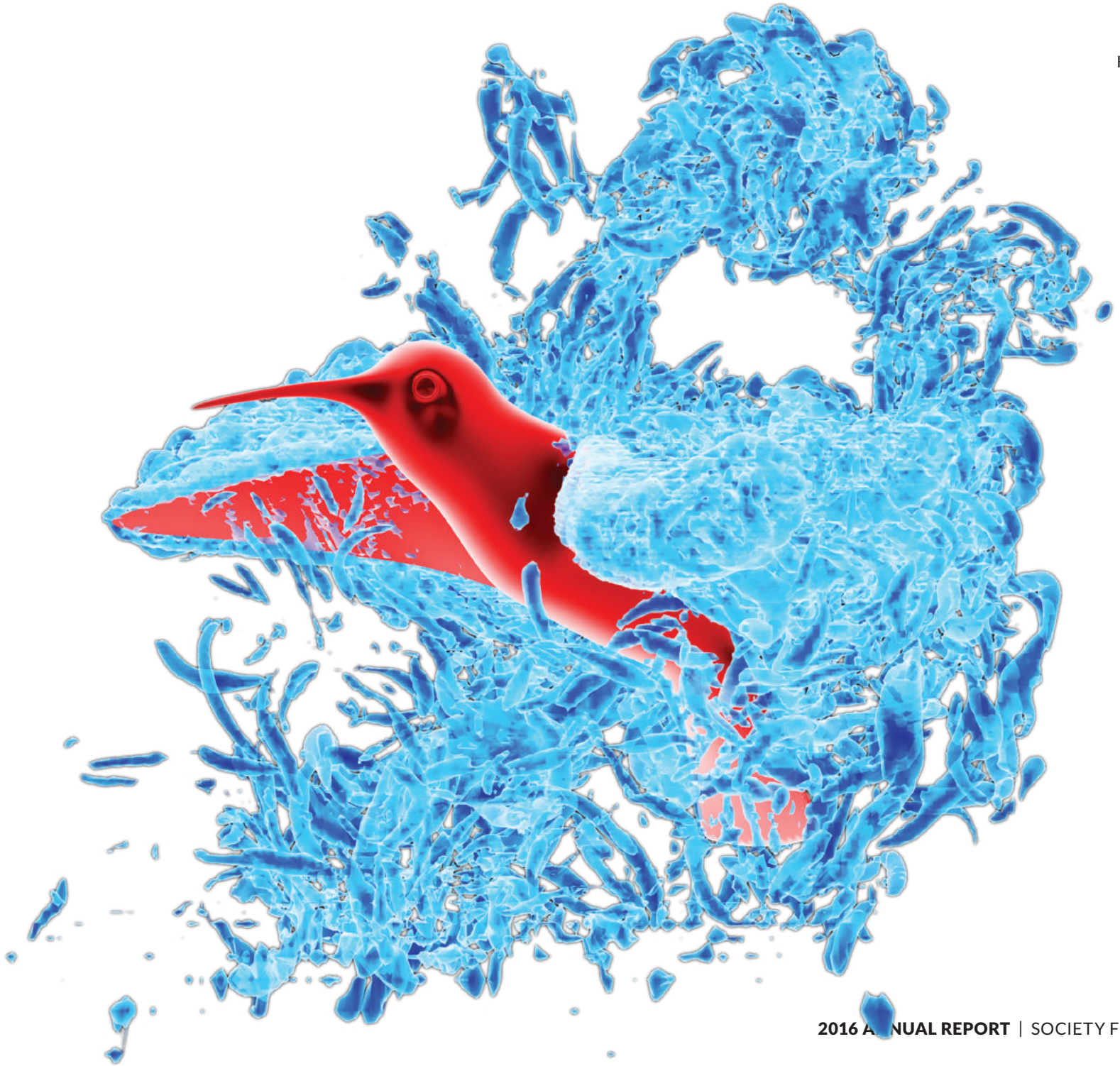
The Society's high-caliber programming can only take place thanks to the Society's exceptional team. In particular, I would like to thank our executive team for securing the Regeneron sponsorship. I am also grateful for the expansive network of thousands of judges and volunteers who ensure the success 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 Barna (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,

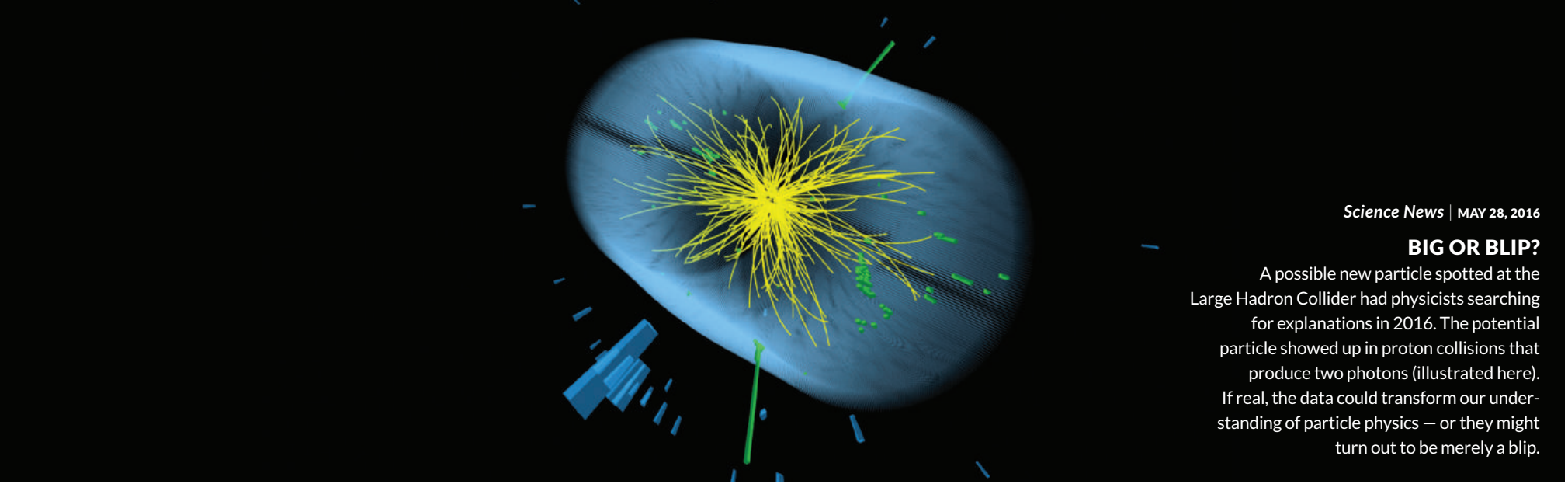
Maya Ajmera

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



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 celebrated the 75th 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.

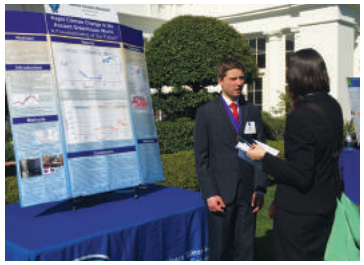
2016 Society Top Ten

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.

JAN

FEB

With the support of Intel, the Society celebrated the 75th anniversary of the Science Talent Search during a formal gala keynoted 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.



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.

MAR

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.

APR

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.

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.

MAY

JUN

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.

JUL

AUG

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.

SEP

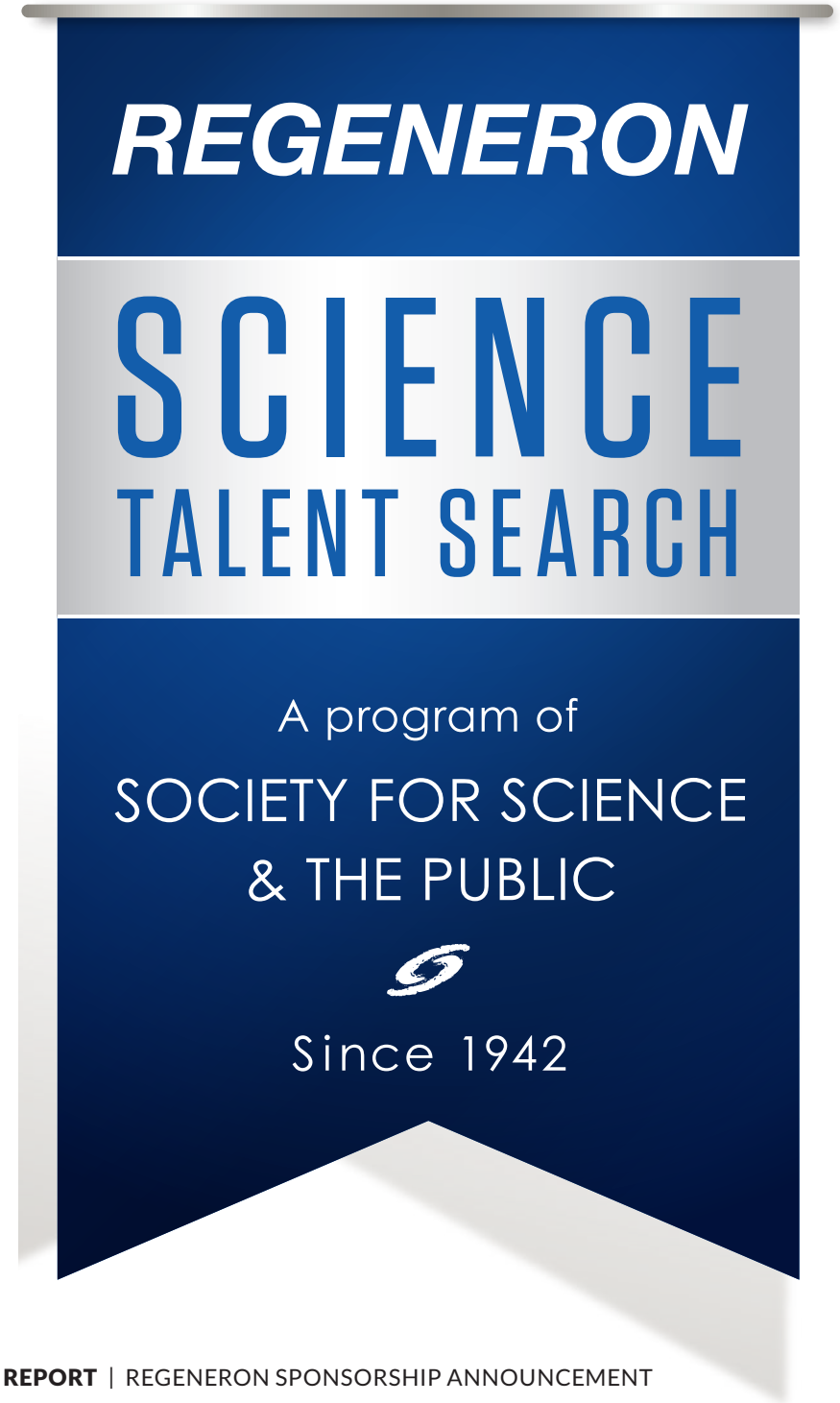
For the first time, Broadcom MASTERS included four top awards: Nathan Deng won the new $7,500 Lemelson Award for Invention, Eleanor Sigrest won the $25,000 Samueli Foundation Prize, Aria Eppinger won the new $20,000 Robert Wood Johnson Foundation Award for Health Advancement and Kaien Yang won the $10,000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

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

OCT

NOV

DEC

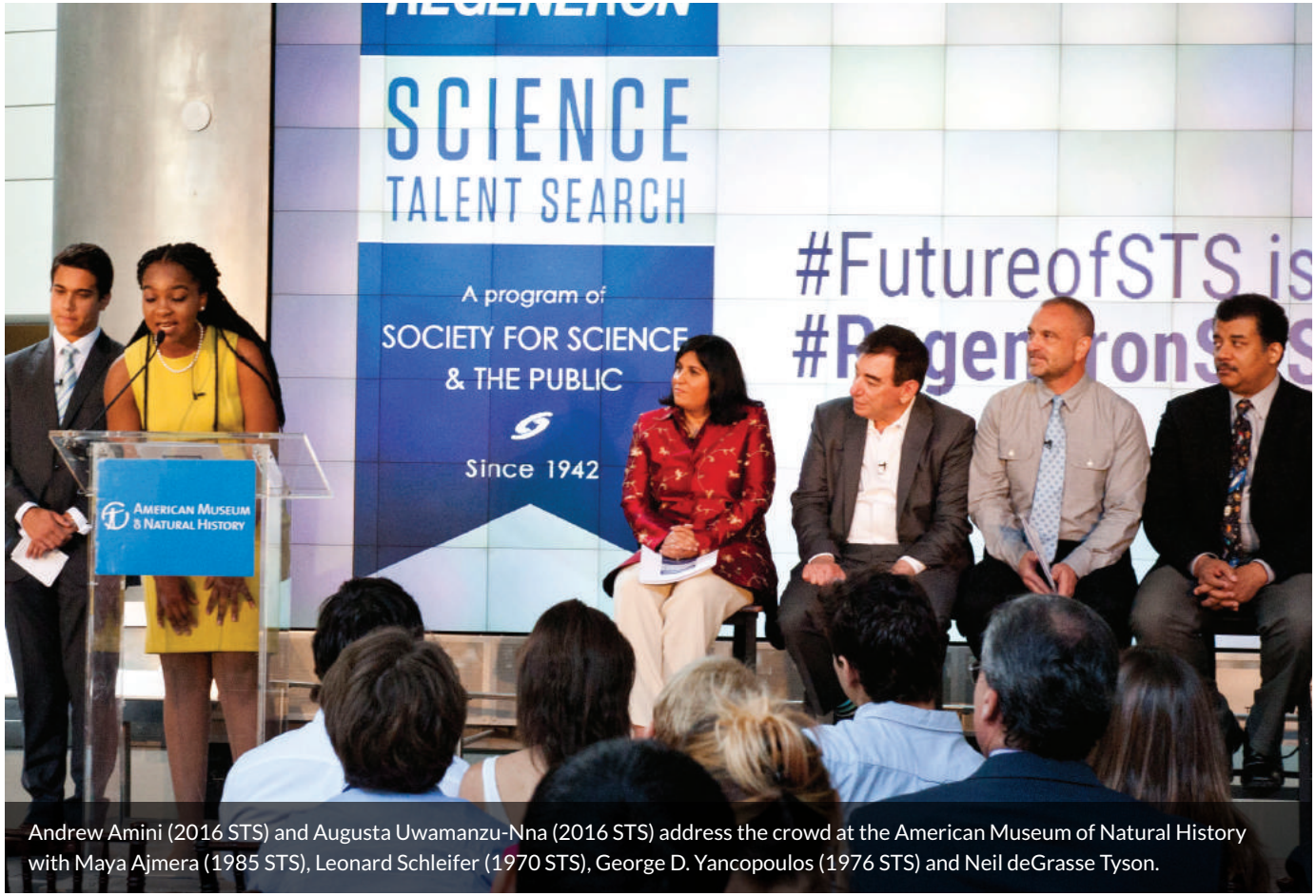


"We are honored to be the new sponsor of the Science Talent Search, a national treasure that showcases the critical role science plays in advancing society."

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

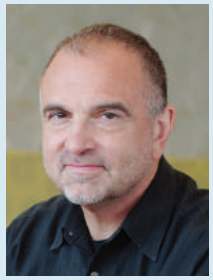
Top left: George D. Yancopoulos (1976 STS) announces the $100 million partnership at the Bronx High School of Science; Bottom left: The crowd listens to the announcement; Opposite: George and Neil deGrasse Tyson are celebrated by students at their alma mater.

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

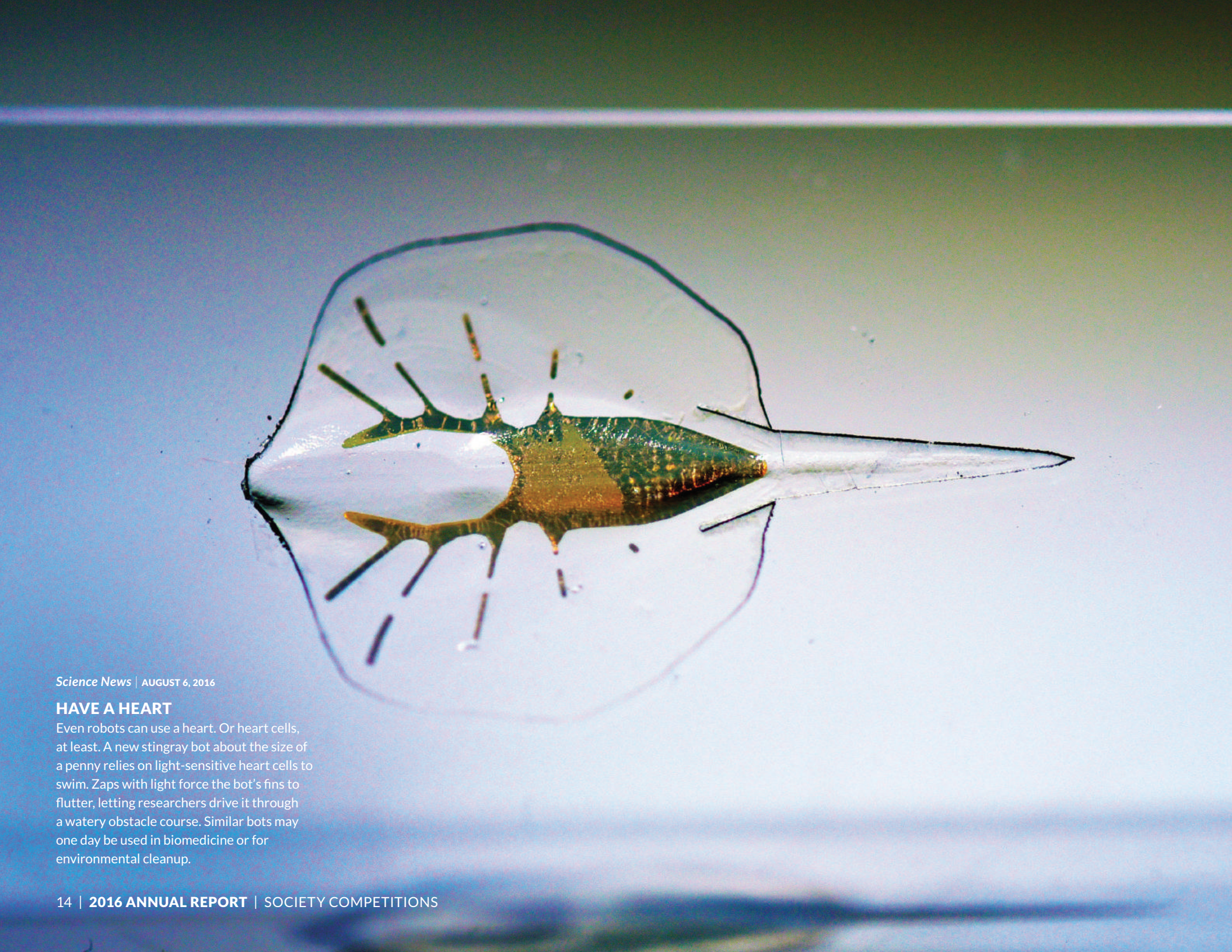
$70
million
for STS

$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

INTEL SCIENCE TALENT SEARCH

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.

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 6th grade students from E.L. Haynes Public Charter School in Washington, D.C.

75TH ANNIVERSARY SCIENCE TALENT SEARCH GALA

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.

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 75th 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

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

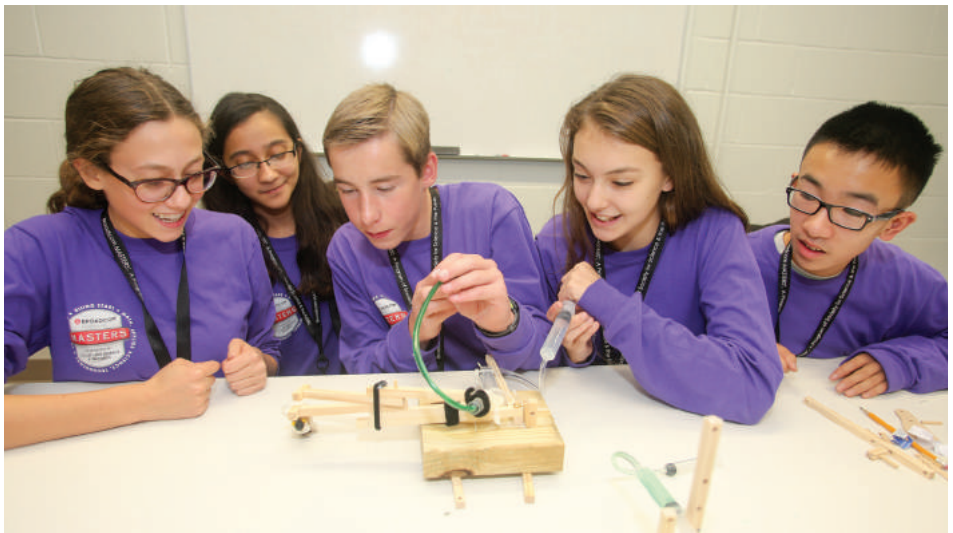
175,000

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 numberof ISEF finalists


MASTERS
Samueli Foundation
Prize
2016



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 Lazorik, 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.

ALUMNI

ENGAGING ALUMNI
THROUGH COMPELLING PROGRAMMING

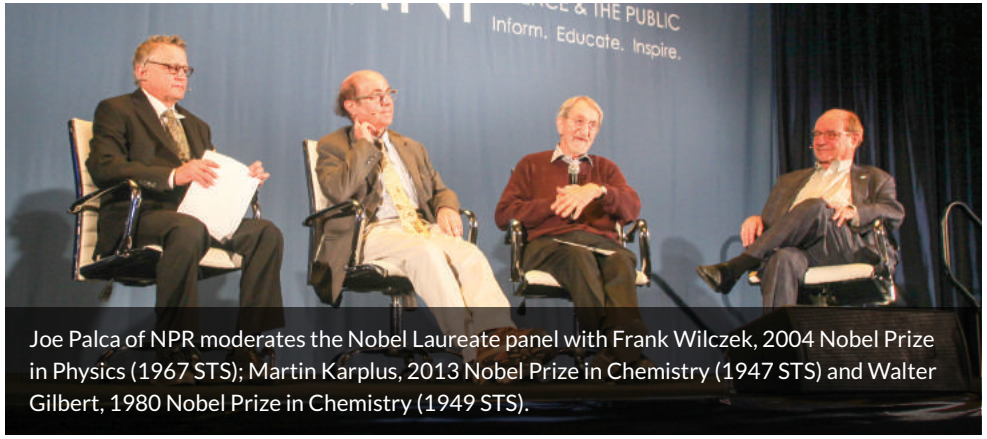
The Society's alumni community is composed of more than 60,000 alumni of its science education competitions who are thought leaders and innovators of all ages and from all industries. Through events, professional development activities and volunteer opportunities, the Society engages alumni with each 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 75th 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*.

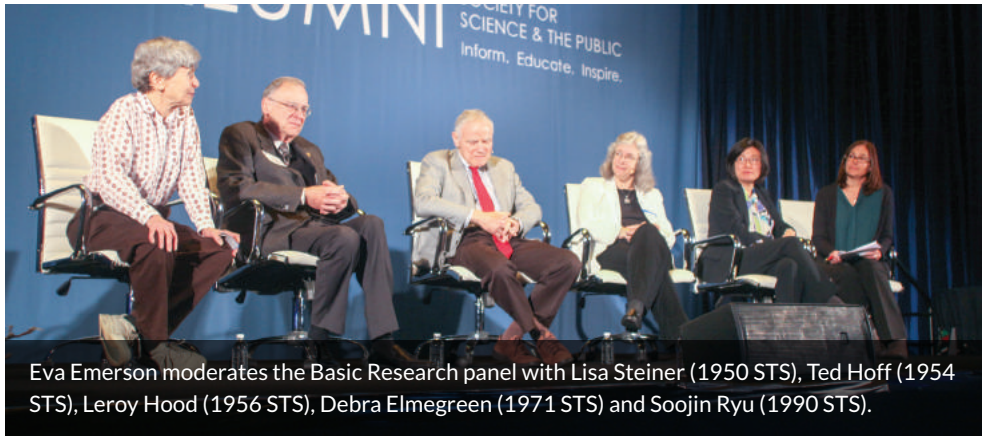
Clockwise from top right: Maya Ajmera moderates a panel with Nina Vasan, Rajen Sheth (1994 STS and 1992–1994 ISEF), Meredith Lee (2000 ISEF), Benjamin Jun (1992 STS) and William Bencze (1985 STS and 1984 ISEF); alumni attend event; Nina Vasan signs her book.



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 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).

ALUMNI

SOCIETY ALUMNI
SHARE THEIR STORIES

The Society continued its celebration of the 75th 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 Patricia 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 1st 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 75th Anniversary celebration."

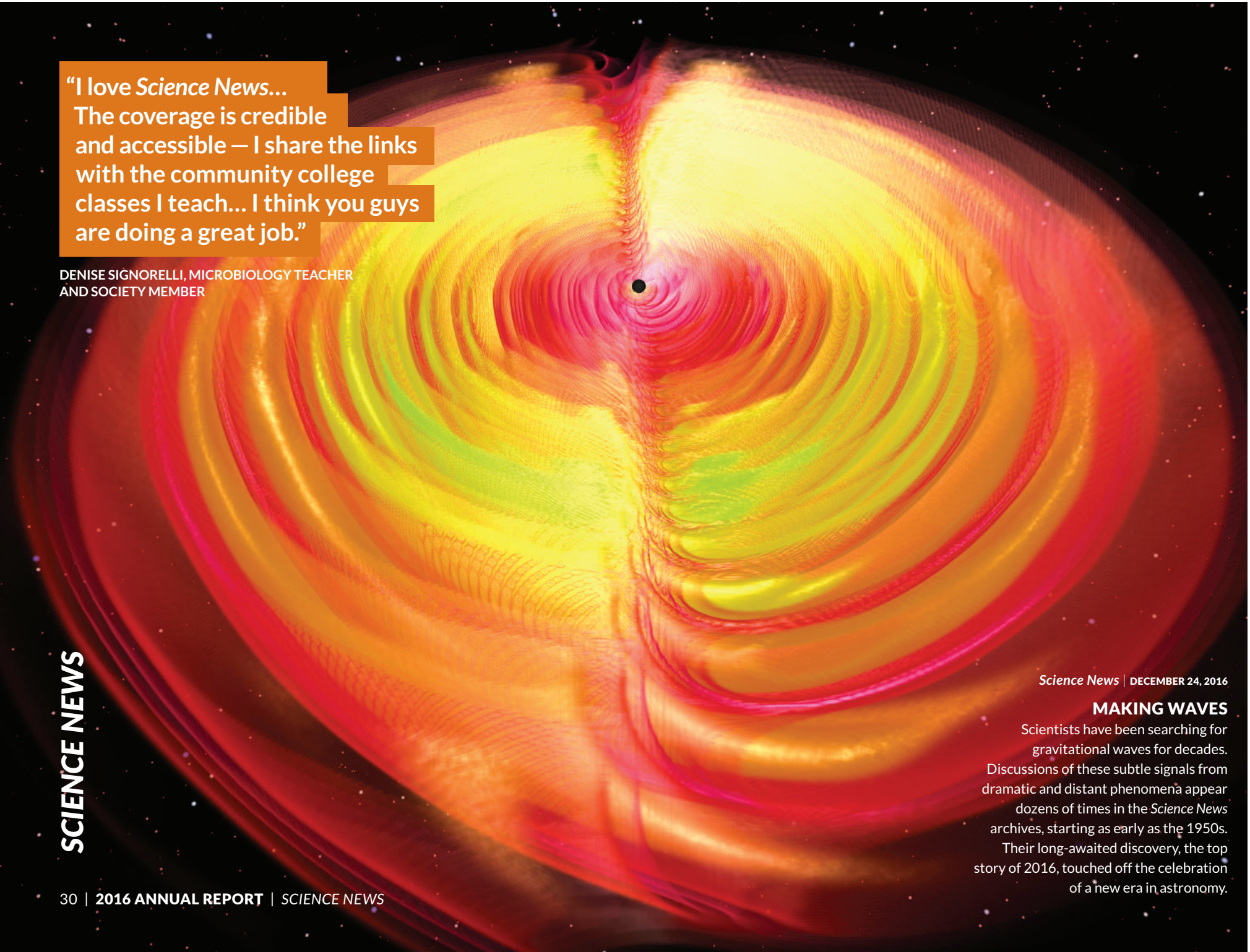
GAYLE EDLUND WILSON (1960 STS)

Science News | SEPTEMBER 17, 2016

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.

SCIENCE NEWS

ScienceNews

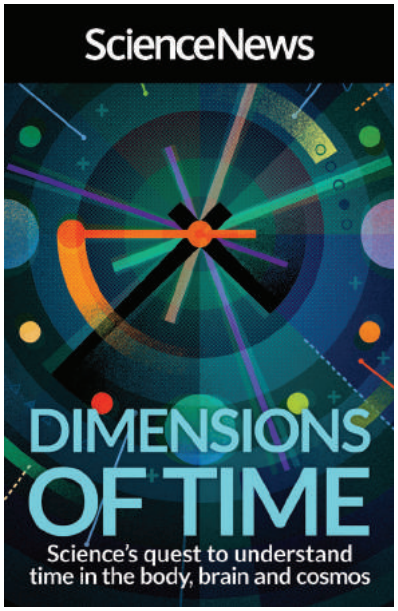
MAKING WAVES
WITH COMPELLING STORIES

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*).

SCICURIOUS | 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."

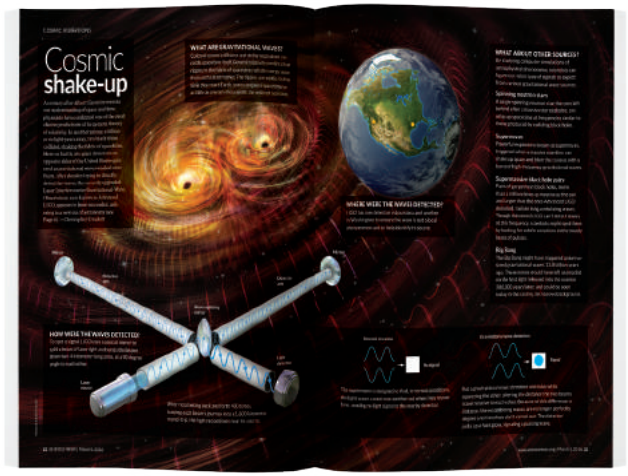
2016 Eddie and Ozzie Awards

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 it's 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.

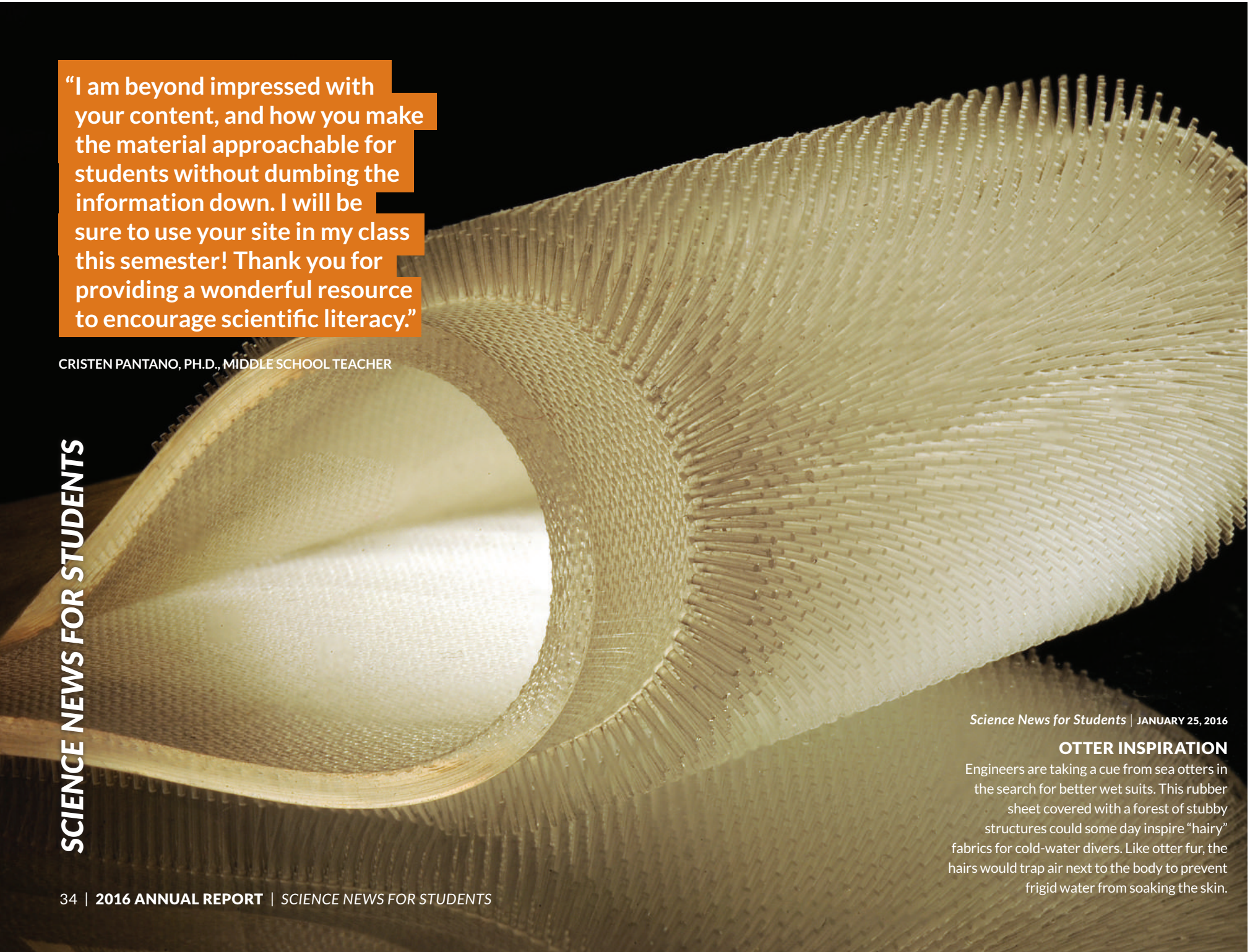
Science for the People podcast

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.

SCIENCE NEWS FOR STUDENTS

"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 | 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.

ScienceNews for Students

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 late July 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.

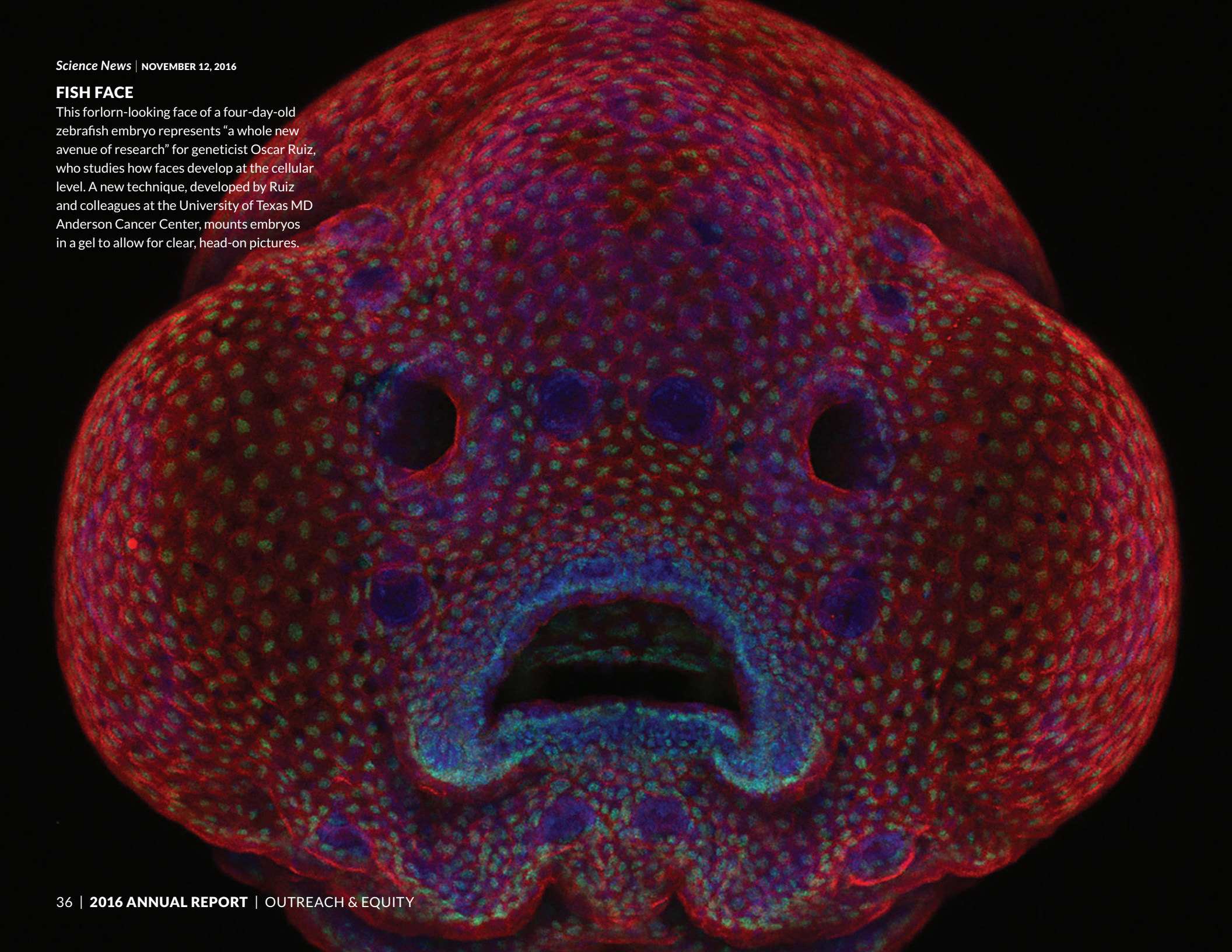
The site's more engaging stories and imagery helped increase the year's traffic to more than six million visitors, representing readers in more than 120 nations.

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.

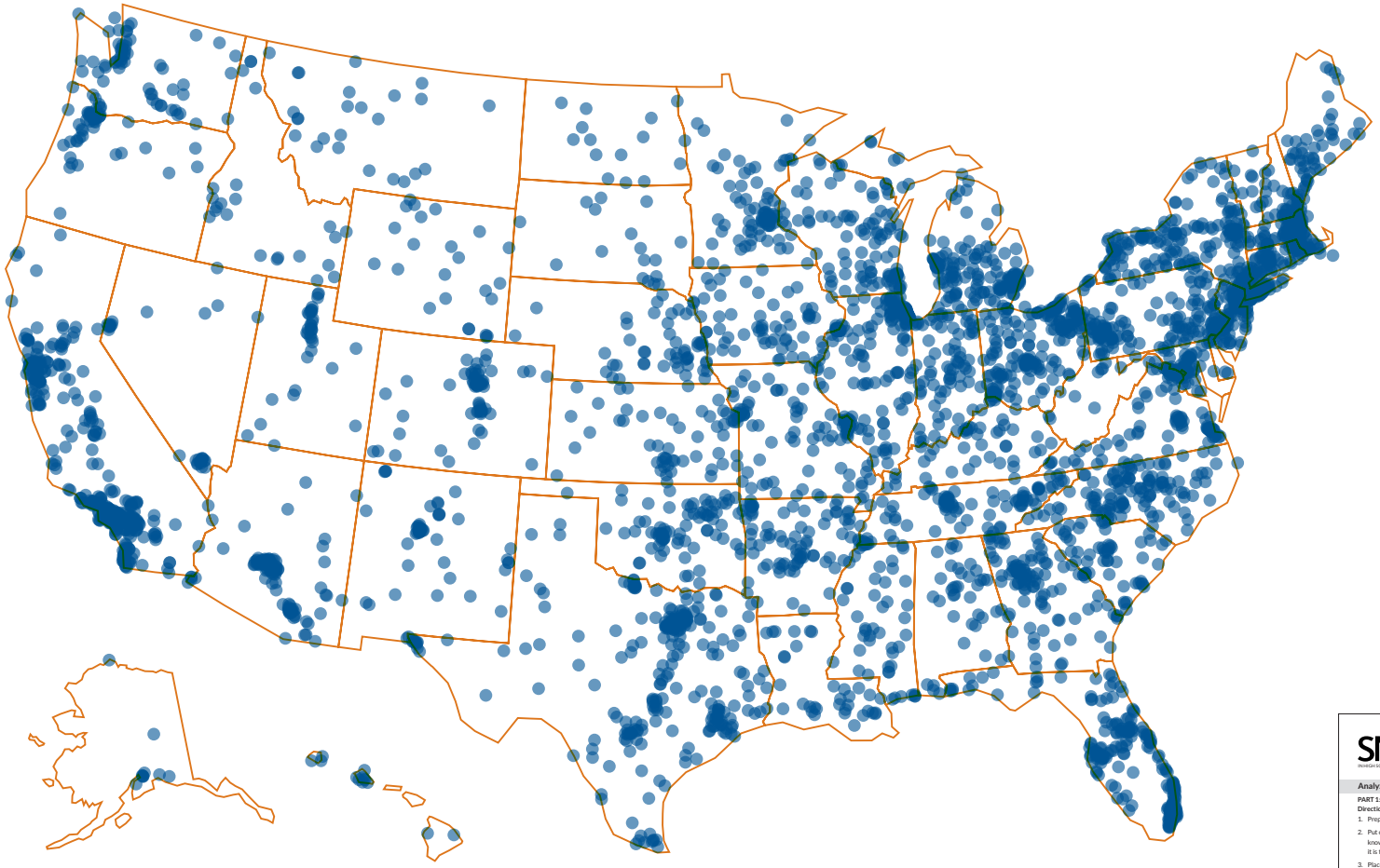
Launched in August 2016, this new website for *Science News for Students* better showcases our award-winning journalism. The new site features enhanced design elements with improved navigation, new media capability and an internal blog network.

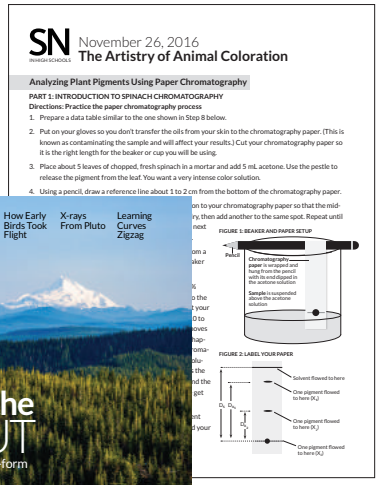


FISH FACE

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





"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

ScienceNews IN HIGH SCHOOLS

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

Advocate Alexa Dantzler'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.

ADVOCATES

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 400 students, with many students already 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

"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.

Peggy Veatch listens during a conference workshop.

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

RESEARCH TEACHERS CONFERENCE

COMMUNITY BUILDING
AT THE RESEARCH TEACHERS CONFERENCE

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

STEM ACTION & RESEARCH GRANTS

"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.

STEM ACTION & RESEARCH GRANTS

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 underrepresented 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 underrepresented ethnicity, and/or programs proving sustainability beyond the current school year.

2016 STEM Action Grant Recipients:

BIOBUS

FIFTH ANNUAL STEAM CONFERENCE

GDS GEORGETOWN DAY SCHOOL

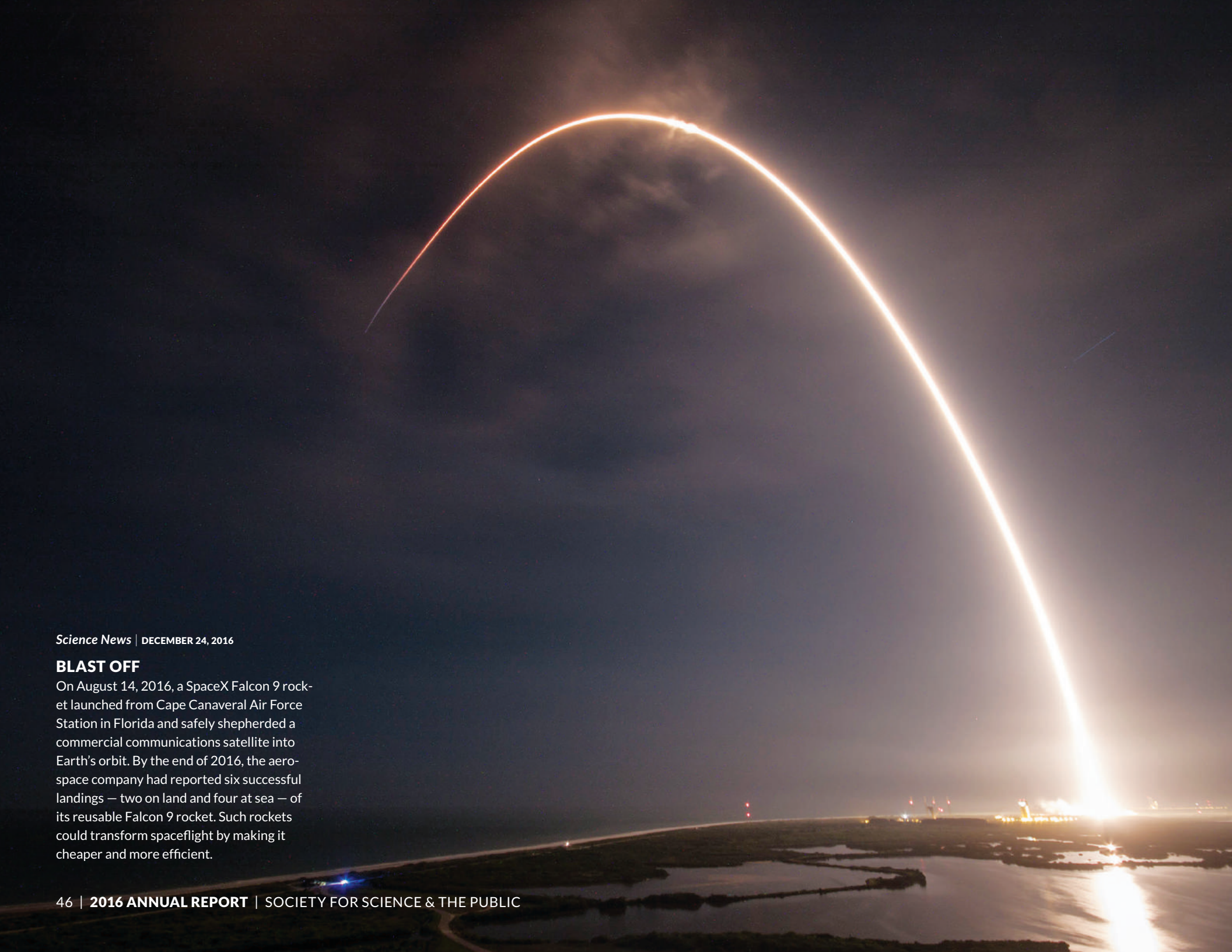
LITAS For Girls

ProjectCSGIRLS

sciinspire

Science Debate

SCIENCE FROM SCIENTISTS



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
Revenue		
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
Total operating revenue	**24,593,687**	21,638,996
Expense		
Program services	**$ 22,558,091**	$ 20,495,020
General and management	**1,471,265**	1,419,375
Fundraising	**814,721**	645,108
Total operating expense	**24,844,077**	22,559,503

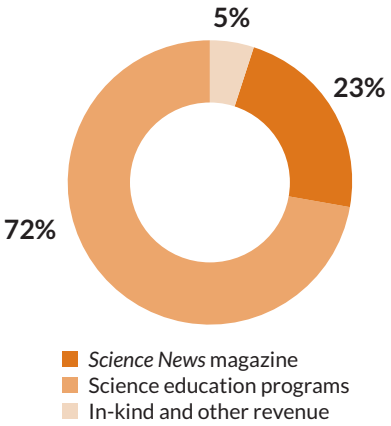
Non Operating Activities and Pledges

	2016	2015
Non Operating Activity		
Investment income	**1,627,399**	(216,677)
Change in post retirement benefit liability	**(104,149)**	386,000
Pledges and Contributions Designated for Future Years		
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)
Non Operating Activity	**35,368,093**	(2,850,025)
Change in Net Assets	**35,117,703**	(3,770,532)
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

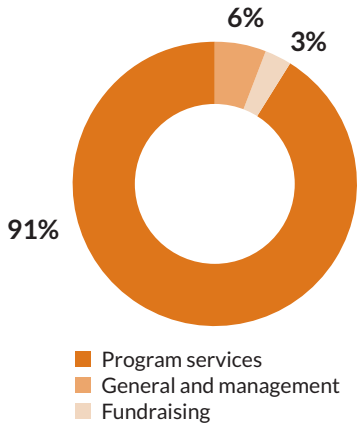
Balance Sheet

	2016	2015
Assets		
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
Total Assets	**108,288,131**	73,388,673
Liabilities		
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
Total Liabilities	**8,166,060**	8,384,305
Net Assets	**$100,122,071**	$ 65,004,368

FY 2016 Operating Revenue



FY 2016 Operating Expense



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
Burroughs 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."

CHARITY NAVIGATOR
★★★★
Four Star Charity

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 Girand
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

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

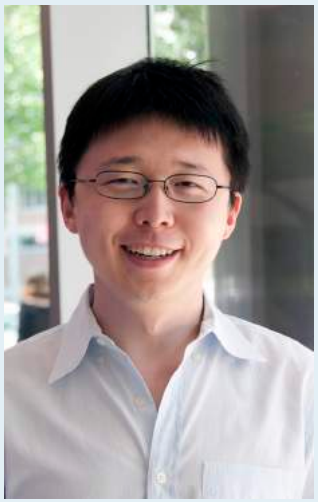
Why I give...

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

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
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 Swarts
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. Addkison
Nancy Aiello
Rachel and Elijah Alper
Erika Angle
Janet Asimov
Maya Bailoor
Patricia Baird
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
Nicholas Bush
Thomas Casten
John Chatham
Andrew Chong
Gilbert and Swainia Cochran
James Cockrum
Kathlene Collins and David Lowenstein
Janice Conavay
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 Elrick
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
Charles Forest
Ernest Fountain
Richard Fox
Lawrence Fritz
Paul A. Gade, Ph.D.
Linda Goldsworthy
Steven Golowich
David Good
Hallie Goodall
Karen J. Goodman
Herbert Gowen
Kenneth Graham
Jack Graver
John Green
David Griesinger
David Hagie
Keith Hall
Steve and Debbie Hankison
Rebecca Harvey
Antoine Hatoun and Andrea Levitt
Megan and Jeremy Healey
Paul Heermans
Michael Hess
William E. Himwich
Donna and Peter Hollinger
Wanda Horwege
Diane Huffman
Elizabeth Hugel and Manfred Egerer
Frankie Jackson
R. Bradley Jensen
Howard Jessen
Julia Kalmus
Nolan Kamitaki
Esther Kepplinger
Robert 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
Stephen Poweska
Doug Redelman
Barbara Renshaw
Henry Roe
Krista Roney
David Ruppert
Sean Rynne
D. Sammataro
Fred Sauter
Hollis Scarborough
Walter Schreiner
Ben Schwegler
Nicholas Seachord
Robert See
Peter Shawhan
Terry Shuman
Vincent Siravo
Grazina Smith
Leslie Smith
McLaurin Smith
Rachael Solem
Frederick and Mary Ann Steward
Ann J. Strawn
Robert Struble
Kent Stuiber
Blake Thalacker
Drew Titone
Richard Treitel
Dean Trester
J. and C. Truebe



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."

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
Margaret Adams
Sam H. Adams
Jerry Addington
William Ailor
Albert Allen
Carolyn S. Allen
John Allen
Larry W. Allen
William C. Allen
Elizabeth Allison
Susan Almy
Marie Aloia
Alex and Emily Althausen
Robert Altizer
Robert Anderson
Cynthia Anthony
Susan Appel
David Arneson
William Arnold
John Arnsparger
Chris Arrowood
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 Barns
John Barstow
Stephen E. Bartlett
Howard Barton
Paul and Lavonne Batalden
Marion Bauman
James R. Beacham
Timothy Beamer
Kevin Beardsley
Rachel Beech
Alvin Beilby
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
Bill Brideson
Joel Brind
Billy Britton
J. Broadhead
Robert Brobst
Martin Broeske
Shari Brooks
Carl Brown
David Brown
James Brown
Keith C. Brown
Nancy Brown
Norman Brown
Robert D. Brown
Roberta Brown
Peter Brownscombe
Donald Brundirks
Philip Bryan
Leslie Bullock
Marco Burenko
Douglas Burgess
Dale Burningham
Paul and Lois Burns
Anna Burton
Samuel Butcher
Laurentiu Buzdugan
Joseph Byers
Robert R. Caddel
Harry E. Cade
Thomas Cahill
William Caldwell
W. Callahan
John Calvert
Mark Caprio
Dennis Carey
Andrew Carleton
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 Charette
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
Jerome Danburg
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 Derose
Don Derthick
Susan Derus
Robert Desiderato
Tamar di Franco
John Dickerson
David Dinger
John Dishion
Matthew M. Dismer
Dana Ditmore
Melinda Dixon
Philip L. Dixon
John McGregor Dodds
V. Alton Dohner
R. E. Dole
Roland Dolle
James Doty
Marc Doty
Harold Douglass
Robert Dow
Steve Dow
Michael Doyen
Brian Doyle
Denis Drapeau
Herman Dress
C. J. Drury
Robert Druzinsky
Leigh Dudash
Casey Dunn
Jon Michael Dunn
William Durch
Loraine Durmann
Michael Durr
Gay Dybwad
James Dyer
J. R. Eagan
Richard Easterly
Douglas Easton
Dana Eckart
Ruth L. Eckert
Ranya Edupuganti
Arthur Ehlmann
A. Ehringer
L. Eiland
Randy Elliott
Robert Ellis
J. and D. Ellison
Jerry Emanuelson
Eva Emerson
Jeanette Eng
John Engel
Darell Engelhaupt
Emilio Englade
Kenneth Epstein
Ellen Erdelsky
Josiah Erickson, Jr.
David Evans
Monte R. Evans
Anita Everson
Phyllis M. Faber
C. M. Fair
Pail Fairbrother
Robert H. Fairclough
Margaret Faris
Peter B. Farquhar
Jay Farr
Stephen Farr
John Fay
Thomas Fenwick
Jane Ferguson
Richard Ferguson
Robert W. Fiefarek
C. T. Field
Marty Field
Robert Field
Jeremy H. Fields
Sam Fields
Alfred Filskov
David Fischer
George Fisler
Terry Fitzmorris
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
Ouida Freeman
Danny Freitas
Alan French
Cary Frumess
Delmer H. Fuchs
Nicolast 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 Gharrett
David Giandomenico
Charles Gibbs
Jeffrey Gibbs
Tom and Judith Gielow
Sue Gier
Antonia Gilligan
Jean Gillmer
Gerald Ginsburg
Allen Ginzburg
William and Lorna Glaunsinger
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
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

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."

Charles Holst
Diane Honeysett
Ellen Honsa
Brian Hooker
Douglas Hoon
Laura Hope
M. Hopkins
Paul Horn
William Hoskinson
Paul Hossler
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
Paul Jackson
Tom Jackson
Arnold Jacobson, M.D.
Jessica Jacobson
E. Jakary
Donald Jakes
Kenneth Janes
Ann Jasperson
Linda S. Jeffries
K. C. Jenner
John C. Jenson
Kim T. Jew
Andrew and Shu Jin
Jeanyoung Jo
David A. Johnson
H. M. Johnson
J. T. Johnson
Lynne Johnson
Scott D. Johnson
Richard Johnston
Chris Jones
Frank Jones
Mark Jones
Nikhil Joshi
Tika Juneja
Tom Jurewitz
Randy Jurgensen
Ann Kah
Brewster Kahle
Tom Kaminski
Joan Kammerer
Mary Kamprath
Van Kane
Gayle Kansagor
James K. Katen
Paul and Cheryl Katen
Marc Katz
Bonnie Kaufman
Francis Keeler
John Kelley
Debra Kelsh
Jim Kendall
Kevin Kenlan
Elizabeth Kennedy
Margaret Kennedy
Tom Kent
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 Krchma
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 Kutzer
William Kwinn
Christina Lacey
Mae-Dell 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 Lermer
Chris Leslie
David Lesnini
Alan Levine
Lisa Levis
Martin Lewis
Fengrong Li and Weiwen Yang
Noble and Carolyn Lieu
Paulett Liewer
Dawei Lin
John Lindley
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
Danielle Lucey
Ravi Lumpkin
Mo Luo
Shirley Lutz
David Lux
Patrick Lyons
Aileen Ma
William Macanka
Michael MacNeil
Michael Maddex
Edith Maffeo
John V. Magee
Julie Magilen
Vera V. Mainz
Jeannine A. Majde-Cottrell
Mark Majesky
Sigrid Maldonado
Roger L. Mansfield
A. S. Marchant
James Mardis
Harry Markert
T. J. Marlowe
Leonard A. Marowitz
Brent Marsh
Alan H. Marshak
Jack Marshall
Betsy Martin
Kreg Martin
Michael Martino
Matt Marty
Peter Mascwitz
James Mason
Sarah Masterman
Jane Mathews
William Matousek
Mary Jo Maydew
Robert McCabe
Jay McCandless
Margaret T. McCann
Ryan Mccue
Chad McDaniel
Walt McEnerney
Alice Mcfarland
Ann McGinley
Ann McIver McHoes
Janice McIntosh
Brookes Mckenzie
Mark McKinnon
Alfred McLaren
Bernard T. McNamara
William H. McNeil
Pearson McWane
Michael Meadows
William Meadows
Gerrit Meddeler
Richard Meetz
Murray Meisels
Carol Meligan
Marli Melton
E. A. Meng
Ram Menon
Jon C. Merkle
E. Merrick

Janice and George Merrill
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 Mulroney
Carolyn Murphy
Denise Murphy
Karyn Murphy
Michael 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. Nimtz
Wanita Norgard
Mike Normandin
Phyllis S. Norris
Victor Norton
Thomas Nowak
Steve O'Connor
Bryan and Sarah O'Donnell
Mark Oldenburg
John Oliver
Jean L. Olson
Yoshiaki Omura
Jesse Oppenheimer
Jennie Orr
Louise M. Osborn

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

Lawrence Y. Ota
Steven Overmyer
Mary Ann Padovani
Howard Page
Allison R. Palmer
Alan Palmiter
Paul Palmquist
Craig S. Palonen
Lu Pan
Himanshu Pandey
Hatsumi Park
Bruce Parker
Jill Parker
Kevin Parker
Robert Parson
Dave Parsons
Will Pastron
Ajay Pathania
Gretchen Paupore
Steven Pearl
John E. Pearson
Heather Peirce
Gregory Pepin
Carlos Perdue
Anthony Perry
R. G. Peterson
Richard Peterson
Michael Phillips
Shelley Phipps
Gordon Pickett
Dawn Piechocki
Andrew Pierce
Alburt Pifer
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
John Purdon
Rita M. Pyrdol
Dean Quick
Mourshed Rahman
Joshua Rai
P. S. Rao
Diane Rashid
Janeen Rastall
Gerald W. Rattley
Dewey Ravenscroft
Gregg Raymond
Lee Read
Cecil Reaves
John H. Rediske
Aaron Reed
Dan Reed
Douglas Rees
David and Krystin Reider
Frank Reilly
Tony Rein
Kurt Reisler
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
Donna Rodel
Chuck Rodert
Barbara Saylor Rodgers
Gerald Roeder
Joseph Rogers
Robert K. Rohwer
Lynn Roosevelt
Daniel Rose
Michelle Rose-Fuller
Mark Rosenberg
Margaret Rosenburg
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
Sholom Sanders
Paul Santos
Jean T. Sarg
Paul Sarvasy
Gerald Sauer
John B. Sauter
Patricia Sawvel
Martin Schachter
Edward Schaefer
Steven Schaefer
Thomas C. Schelling
David Schey
Steven Schlosser
Carl Schluter
Brian Schmidt
Christopher Schmidt
Weston Schmidt
Michael L. Schmitz
Lawrence Schmutz
Stephen Schneider
Martha Schumacher
Leanne Scott
John R. Sechena
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
Gil Stevens
John Stevenson
Rodney Stock
Michael Stoddard
Beth Stoeckly
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
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
Willian 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 Wills
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 Wylde
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)

This list includes $100 and above individual donors. For a complete list, please visit **www.societyforscience.org/2016annualreport**.

If we have left out or misspelled your name, please accept our sincerest apology and contact us so that we may correct our records.

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, Aretê 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**
Associate 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

2016 annual report editors: Rachel Goldman Alper and Gayle Kansagor; designer: Justine Hirshfeld

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