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2018 ANNUAL REPORT

THE NATIONAL SCIENCE AND TECHNOLOGY MEDALS FOUNDATION is a D.C.-based 501c3 public charity working to champion the lives of America’s greatest scientists and technologists and connect these extraordinary individuals to the next generation. The NSTMF collaborates with the men and women who have received America’s highest honor in science and technology: the National Medal of Science (NMS) and the National Medal of Technology and Innovation (NMTI). Their passion for knowledge has taken us beyond our own planet, to the bottom of our seas and deep within the neural pathways of the human brain. The Foundation is committed to inspiring the leaders of tomorrow to pursue excellence by promoting the National Medal Laureates as role models. In short, the NSTMF is a convener and catalyst for the science and technology communities by creating opportunities for education and inspiration.

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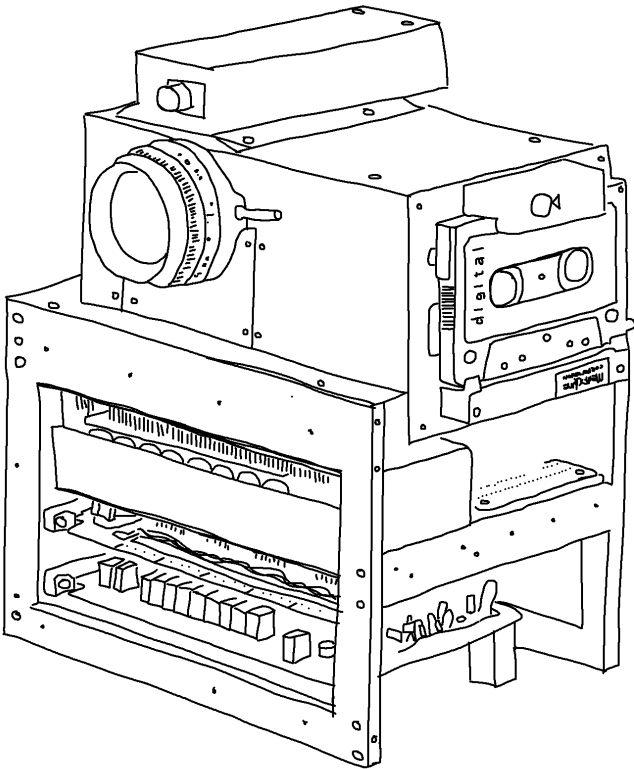
Two years of “An Evening With”

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The National Science and Technology Medals Foundation was created by my grandfather George Rathmann who believed that science and technology were two of the most important forces in the world. Whether it’s saving time or saving lives, discoveries in science and technology effect us daily. We are familiar with the breakthroughs and inventions - vaccines, cancer treatments, digital photography, GPS, and on - but we don’t often know the names of the men and women behind the world-changing work. Is it the mission of the NSTMF to bring them into the light.

Since its inception, the NSTMF has honored the men and women who receive America’s highest honor in science and technology: the National Medal of Science and the National Medal of Technology and Innovation. Today we are working to make the Laureates of the National Medals and other STEM experts more accessible to students and young STEM professionals around the country.

Our “An Evening With” program is an integral part of making these connections. Two years in and we are already seeing the impact of putting students in rooms with Laureates and sparking candid conversations. We are pulling back the curtain on the process of scientific discovery and technological innovation and showing our audiences that success is neither preordained nor is it only available for a privileged few.

In the coming, years we will continue to build bridges between Laureates and students especially those who wouldn’t otherwise have access. We believe that sharing these stories with students and the public is essential to build stronger STEM communities. As we grow we rely on the support of our generous partners and sponsors to help keep our programming free for all.

Sincerely,

ANDY RATHMANN-NOONAN
Executive Director

At the NSTMF, we believe that economic strength, competitiveness and a high standard of living depend on our nation’s ability to lead the world in scientific discovery and technological development. Global competition, a global workforce and increasingly sophisticated job skill requirements are widely recognized forces shaping the world today. Against these headwinds, the United States faces a significant challenge in developing the future scientists and technologists it needs to maintain a global leadership position. These forces, combined with deficiencies in science and technology education, have profound effects on young people and their career choices. In light of these challenges, the NSTMF pursues three major objectives:

Inspiring a new generation

Now in its second year, the “An Evening With” program has become the Foundation’s flagship program in service of our mission. The AEW program is designed to create personal connections between students and STEM professionals so that students may look to the Laureates as role models, examples of resilience for their future STEM careers. The hallmark of these events is the intimate atmosphere in which STEM experts share stories about notable accomplishments as well as the failure and false starts that defined their journey to success. These events pull back the curtain on world-changing scientific accomplishments. The audience is encouraged to ask questions and engage with the speakers outside the structure of a typical student-teacher interaction. By attending one of these programs or watching online, students gain access to a set of individuals they wouldn’t otherwise be able to engage in a substantive discussion. In 2018, we more than doubled the number of events and tripled the number of attendees. To date the program has reached over 1,000 audience members and over 46,000 online viewers. The NSTMF is committed to sharing a diverse set of perspectives through our programming; 50 percent of all AEW participants were women or people of color.

Promote public understanding and appreciation for the role of science and technology in society

In 2015, the NSTMF launched an online lab (lab.nstmf.org), which provides an interactive and experimental experience for anyone with internet access. The lab currently has three modules where visitors can explore the dynamic properties of gravity, sound, and image processing.

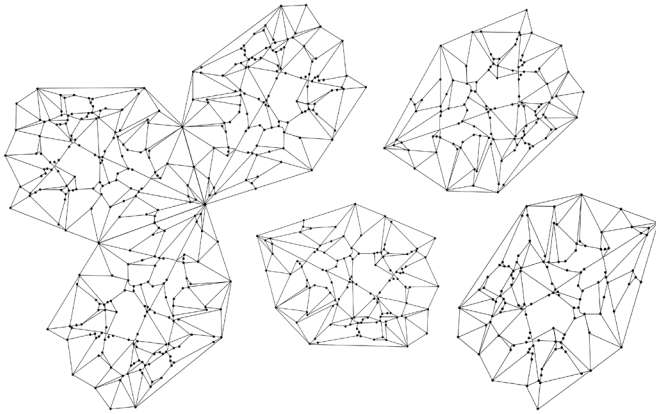
The Lab is a space where play can lead to discovery. Each module encourages users to peel back layers of the experience and interact with specific scientific principles. In 2018, the Lab was used in several middle and high school classrooms across the country as a teaching tool. The Lab was also featured on Microsoft Schoology and Google Classroom.

The NSTMF also hosts an e-museum for the Laureates of the National Medal of Science and the National Medal of Technology. The site nationalmedals.org is the most comprehensive collection of information about these Laureates, featuring audio interviews, videos, images, and profiles of the extraordinary men women and companies who have won the medal. All content on the website is written for a general non-science audience so that everyone can appreciate the impact science and technology has on their everyday lives.

Celebrating American Ingenuity

Since its inception, the NSTMF has honored the men and women who receive America’s highest honors in science and technology: the National Medal of Science and the National Medal of Technology and Innovation. These medals, bestowed by the President of the United States, recognize those who lead our country and the world in scientific and technological advancement.

The NSTMF honors these accomplishments by hosting the National Medals Celebration, a full day of celebration beginning at the White House and ending with a gala for Laureates, family, friends, and colleagues. The NSTMF last hosted the National Medals Celebration on May 19, 2016.



TWO
YEARS OF
"AN EVENING WITH"

Meet the greatest minds in science and technology

In 2017, we launched the “An Evening With” program in service of mission to connect students with the greatest minds in science and technology. The program features National Medal Laureates and other prominent STEM experts in intimate, discussion-centric events. Since its inception, the program has featured more than 20 experts, reached an audience of more than 3,000 students, professors, and members of the public, and created relationships with nine universities and institutions.

A unique opportunity

The hallmark of these events is the intimate atmosphere in which STEM experts share stories about notable accomplishments as well as the failure and false starts that defined their journey to success. Geared towards students and young STEM professionals, these events pull back the curtain on world-changing scientific accomplishments. The audience is encouraged to ask questions and engage with the speakers outside the structure of a typical student-teacher interaction. By attending one of these programs or watching online, students gain access to a set of individuals they wouldn’t otherwise be able to engage in a substantive discussion.

Highlights from the 2018 AEW line up include candid discussions about failure, the importance of finding mentors and role models, and building a STEM communities representative of our diverse society.



“Geri’s talk came at a perfect time when I needed some real inspiration. I have been having so many problems with my male advisor and coworkers throughout my PhD experience. I have talked to several students within the department, staff, and other faculty, but her advice was the best I have received so far. Her one seminar sparked a whole day of discussion the next day in our department.”

– Student at An Evening With Geri Richmond

2018 EVENTS

An Evening With Steve Sasson
University of South Florida

An Evening With Biotech’s Best
University of Southern California

An Evening With Vinton Cerf
Georgetown University School of Continuing Studies

An Evening With Geraldine Richmond
Wisconsin Institutes for Discovery

Are We Going to Mars? An Evening With Trailblazers
Rensselaer Polytechnic Institute

An Evening With Titans of Nanotechnology
Northwestern University, International Institute for Nanotechnology



“My plea to this generation is to begin the process of knitting society back together, to believe that the American dream is available to everybody.”

– Dr. Sylvester James Gates

“In the process of inventing, the first thing you have to convince people of is you.”

– Steven Sasson



A LOOK FORWARD

Science Unscripted

The NSTMF is pleased to continue extending the reach of the AEW program in the coming year. Now called “Science Unscripted,” the program continues to grow, reaching new audiences around the country. The 2019 schedule will include the following events:

An Evening With Stephen Lippard

Haverford College

An Evening With Richard Tapia

University of Texas at Arlington

An Evening With Geri Richmond

Portland State University

An Evening With Shirley Ann Jackson

Howard University

Screens Behind the Scenes with Industrial Light & Magic

Spelman College

Origins of the Internet ft. Vint Cerf, Steve Crocker, and Radia Perlman

George Washington University

Decoding Bias in AI

University of Maryland Baltimore County

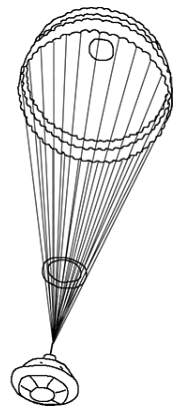
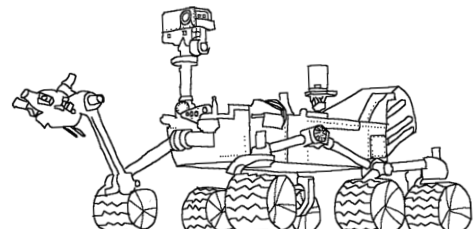


Goals for Science Unscripted

The men and women featured at Science Unscripted events embody the spirit of American innovation in all its forms. From DNA synthesis to digital photography, their many and varied accomplishments have shaped our understand of the world and what lies beyond. In the upcoming year, we are doing more to ensure the Science Unscripted program has a lasting impact on the students and young STEM professionals.

We are committed to extending the reach of our programming to build a diverse STEM community that is inclusive, and truly representative of our society. Too often, college students drop out or are held back in STEM because of circumstances beyond their control. Too often students are unable to establish an identity, gain confidence, or create productive relationships because they are overlooked. Studies show that less than 40 percent of college students who intend to earn a STEM degree actually graduate with that degree. And of the students that leave STEM majors, most are women and people of color. We are steering the Science Unscripted program to better suit the needs of these students.

In 2019, we are committed to an even higher percentage of speaking roles for women and people of color; from 50 percent last year, we are now aiming for 75 percent. We will continue to work with host institutions and partner organizations to ensure that our in-person and webcast audiences are as diverse and engaged as possible. We will be adding closed-captioning to all of our webcasts to lower the barriers for access on all platforms. We are also striving from greater geographic diversity by hosting events in every region of the country and campus-type diversity by partnering with tier-one research institutions, minority-serving institutions, HBCUs, small liberal arts colleges, and more.



THANK YOU TO OUR DONORS

The NSTMF would like to thank all of our donors who supported our mission and programming in 2018. Their generous contributions helped us pursue our core objectives: inspiring new generations of STEM students, raising public awareness and appreciation for science and technology in our everyday lives, and celebrating American ingenuity.

PIONEER \$50,000 AND ABOVE

National Science Foundation
Rathmann Family Foundation
United States Patent and Trademark Office

EXPLORER \$30,000-\$49,999

Google
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DREAMER \$10,000-\$29,999

Amgen
Biogen
Catherine and Franklin Johnson Family Foundation
The Florida High Tech Corridor

CATALYST \$5,000-\$9,999

American Chemical Society

Among the many generous donations the NSTMF received in 2018, the Foundation is grateful for support from all board members.

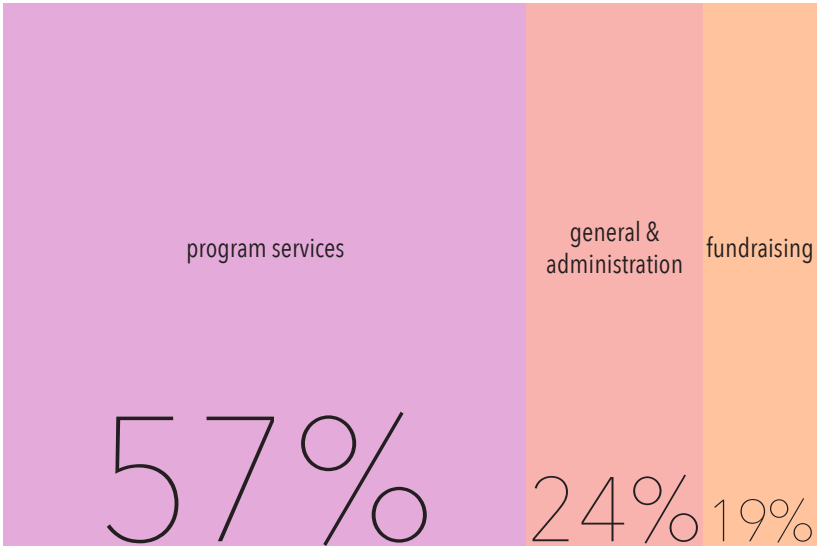
2018 FINANCIALS

For many years the Foundation's primary responsibility was to host the newest Laureates of the National Medal of Science and National Medal of Technology and Innovation at the NSTMF's National Medals Celebration. This program not only served as the visible manifestation of the NSTMF's mission but also as the NSTMF's most successful fundraising vehicle.

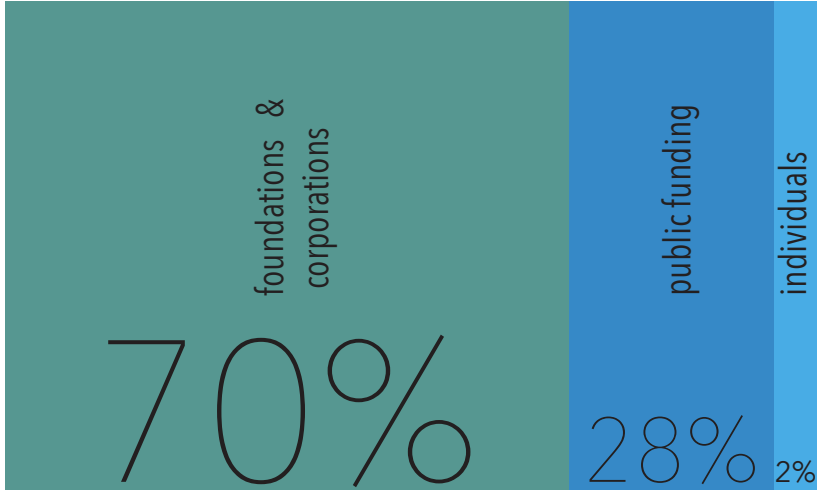
2018 ushered in a new stage of the NSTMF's evolution and a significant shift in how the Foundation funded its operations. By building off the successful pilot effort of the An Evening With program in 2017, the NSTMF hosted numerous AEWs all over the country, garnering sponsorships from companies like Google, Amgen, and the elite scientific research organization Howard Hughes Medical Institute. The Foundation also saw continued support from their agency partners, the National Science Foundation and the United States Patent and Trademark Office.

The close to \$600,000 raised in 2018 proved that the Foundation was able to grow during a time of general uncertainty around when the next class of Laureates would be announced. 2018 was a year in which the Foundation redefined itself as an organization that can reach thousands of students, promote scientific and technological excellence, and become a convener and catalyst for substantive discussions about science and technology.

Foundation Expenses // 2018



Fundraising Sources // 2018



2018 FINANCIALS

STATEMENT OF ACTIVITIES
for fiscal years ending on December 31, 2018 & 2017

	2018	2017
SUPPORT & REVENUE		
Contributions and grants	275,000	275,032
Sponsorship income	145,032	16,185
Federal contracts	175,016	20,000
Dividend & interest income	37	78
Miscellaneous income	821	2,006
Total support & revenue	595,906	313,301
EXPENSES		
National Medals Event	11,378	9,224
An Evening With	374,445	269,839
Laureate E-Museum	28,446	23,059
Total program expenses	414,269	302,122
General administration	178,645	60,188
Development	138,776	138,355
Total administration & development	317,420	198,543
Total expenses	731,689	500,665
Change in net assets	(135,783)	(187,364)
Net assets, beginning of year	1,703,176	1,890,539
Net assets, end of year	1,567,393	1,703,176

STATEMENT OF FINANCIAL POSITION
as of December 31, 2018 & 2017

ASSETS		
Cash and cash equivalents	91,706	186,788
Account receivables	16,500	35,000
Prepaid expenses	12,469	2,465
Refundable deposit	1,025	1,025
Total current assets	121,700	225,278
E-Museum	935,518	935,518
NSTMF Lab	542,380	542,380
Total intangible assets	1,477,898	1,477,898
Total assets	1,599,598	1,703,176
LIABILITIES		
Accounts payable	32,205	-
Total liabilities	32,205	-
Total net assets	1,567,393	1,703,176
TOTAL LIABILITIES & NET ASSETS	1,599,598	1,703,176

BOARD OF DIRECTORS
& MANAGEMENT

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Naples, Florida

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Vinton Cerf
Arlington, Virginia

Board Members

Richard Elkus Jr.
Atherton, California

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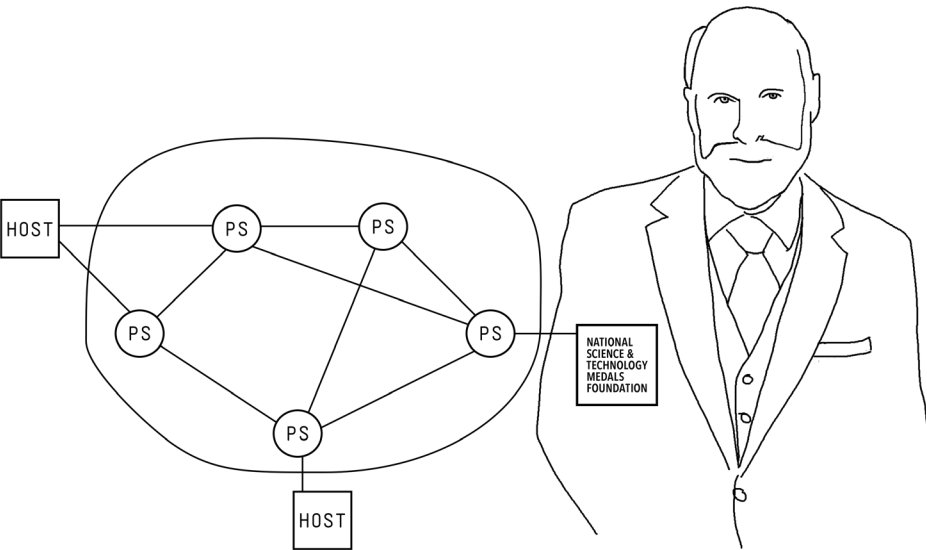
Ted Love
San Francisco, California

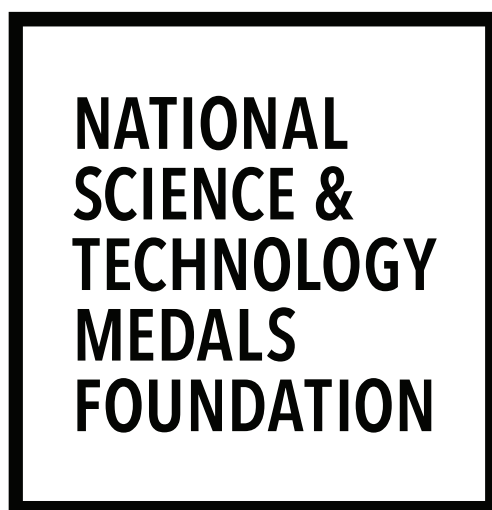
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Brooklyn, New York

Megan Roberts
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Executive Director

Andrew Rathmann-Noonan
Silver Spring, Maryland





Championing the work and lives of America's greatest scientists and technologists **and connecting these extraordinary individuals to the next generation**

To learn more about the NSTMF's work visit [www. nationalmedals.org](http://www.nationalmedals.org).