National Inventors Hall of Fame®

2016 Annual Report

Letter from the CEO

Our role as a Hall of Fame is to honor those exceptional individuals whose inventions have made significant contributions to modern life. Our purpose is to assure that American ingenuity continues to thrive in the hands of coming generations. With a focus on the future and sustainability, we continue to evolve as the country's foremost nonprofit, inspiring innovation and 21st-century skills in a generation of students who will lead our country's workforce.

We celebrate inventors who have changed the world through the acclaimed National Inventors Hall of Fame Museum and Induction Ceremony—the country's Greatest Celebration of American Innovation™. We also devote a great deal of our resources to providing a comprehensive portfolio of innovation-oriented programs designed to promote innovative thinking and creative problem-solving at every age—from preschool through high school and even among the most prolific college inventors in the United States. These programs are creatively designed to cultivate rising stars and, perhaps, help them along their own path to be enshrined in the National Inventors Hall of Fame Museum, the National Monument to Innovation®.

In the past year, we have expanded our offices and warehouse to accommodate an expanding staff and growing customer needs; launched a new teacher professional development program that integrates into the classroom; opened an expanded National Inventors Hall of Fame at the United States Patent and Trademark Office; and grown our education programs to serve over 130,000 K-12 participants.

To all of you who generously give your inspiration, time, and financial gifts to make our growing national impact possible, thank you. Together, we are building a more innovative and creative country by investing in new programs and ideas to impact even more children, teachers, collegiate students, and inventors.

We are grateful for your partnership, which enables and inspires us, and look forward to what the future holds.

Michael J. Oister
Chief Executive Officer

National Inventors Hall of Fame Mission

We inspire innovation in America.

Founded in 1973, the National Inventors Hall of Fame (NIHF) honors inventors and invention, inspires creativity, and challenges the next generation to embrace the spirit of innovation and entrepreneurship.

United States Patent and Trademark Office Partnership

The United States Patent and Trademark Office (USPTO) is a founding partner of NIHF and continues to support us in our mission to inspire innovation in America.

Our programs are uniquely inspired by stories of our NIHF Inductees, the foremost invention experts in the world, and backed by the USPTO. Through decades of collaboration, the USPTO's investment has helped to make Camp Invention, Club Invention, Invention Project, and Invention Playground the largest preschool-12 nonprofit programs that encourage the spirit of invention and imagination in children nationwide.

The USPTO also supports our Collegiate Inventors Competition (CIC), which recognizes innovative research, entrepreneurship, and creativity in undergraduate and graduate students in America. CIC is the only competition in the country where student finalists are judged by a panel of NIHF Inductees and USPTO officials. Additionally, these experts provide feedback, engage in brainstorming sessions, and share their words of wisdom to advance students' cutting-edge inventions and strengthen their intellectual property protection.

Finally, the National Inventors Hall of Fame is located on the USPTO headquarters campus in Alexandria, Virginia, and serves as our country's National Monument to Innovation. The NIHF Gallery of Icons™ and exhibits share the inspiration of men and women who have significantly impacted our world. The first National Inventors Hall of Fame Induction Ceremony was held at the USPTO in 1973, and 44 years later, we proudly continue our partnership to recognize the world's greatest innovators and inspire future generations through their inventions.

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2016 By the Numbers

Impacted over 130,000 children and 15,900 educators through education outreach

Impacted over 10,500 middle and high school youth as Camp Invention Leadership Interns™ and Counselors-in-Training™

5,710 Twitter followers

Reached over 2,100 Collegiate Inventors Competition participants

Expanded to 532 Inductees in the National Inventors Hall of Fame

Over 5,500 Camp Invention volunteers

Over 1,900 philanthropic partners

27 years as a leader in STEM programming

Over 5.3 billion media impressions

51,178 Facebook fans

Impacted over 41,000 underserved children

Over 4.9 million website visitors

Over 1,400 school partners in 50 states

Inspiring future innovators™

2016 Educational Programs

Inspired by the Inductees of the National Inventors Hall of Fame, our educational programs are designed to impact young minds through fun, hands-on activities infused with the spirit of innovation. Hosted annually by over 1,400 schools and districts nationwide, these immersive enrichment programs are led by local, certified educators and promote STEM concepts, Intellectual Property Literacy®, and 21st-century skills such as critical thinking and creative problem-solving.

Each program we offer embraces its own unique characteristics, but what ties them all together is an exciting environment with no wrong answers, a chance to brainstorm with peers, and an opportunity to build confidence in the natural ability to dream and create.

MOVE,
MAKE,
CREATE!™

Invention Playground®

Invention Playground

Preschool

After ample research and testing, **Invention Playground** was created. This newly developed program puts preschool students on the road to creativity with fun, engaging educational programs. It's never too early to start ideating. Visit invent.org/inspire/invention-playground-pre-k for more information.

Where big ideas become the next BIG thing.®

Camp Invention®

Club Invention®

Camp Invention

Grades K-6

Camp Invention, the cornerstone of our preschool-12 educational programs, gives children entering kindergarten through sixth grade the opportunity to prototype, create, and explore new innovations. This summer program nurtures a child's curiosity into big ideas through immersive curricula that encourage creativity and innovation through Science, Technology, Engineering, and Math (STEM) content. With new programming every year, boys and girls new to camp or returning to camp are guaranteed to have a unique and exciting experience. Our 2016 program enabled children to brainstorm product ideas and build original prototypes using real tools and components found in everyday devices; explore the lives of giant insects, colorful animals, and their environments; construct and personalize a DIY solar-powered cricket with a unique habitat; and discover the science of slime, demolition, electronic sound, a giant squid, and coding. It also impacted over 1,400 schools and served more than 102,000 kindergartners through sixth graders nationwide. The goals for 2017 are even higher, and with new curriculum that features inventors from the National Inventors Hall of Fame posing video challenges and elevating children's knowledge of STEM and inventing, we are confident they will be achieved. Visit campinvention.org to see our curriculum in action.

Club Invention

Grades 1-6

Club Invention takes the same principles as our nationally recognized Camp Invention summer program and turns it into an engaging afterschool program for children in first through sixth grade. Children are immersed in STEM throughout the school year with new challenges to test their imaginations.

Victor Lawrence, NIHF Inductee, at Camp Invention

Inductees who went to Camp Invention Summer 2016

JD Albert
Electronic Ink

George Alcorn
X-Ray Spectrometer

B. Jayant Baliga
Insulated Gate Bipolar Transistor

Federico Faggin
Microprocessor

Edith Flanigen
Molecular Sieves

Leonard Flom
Iris Recognition Systems

Eric R. Fossum
CMOS Active Pixel Image Sensor

Art Fry
Post-it® Notes

Ashok Gadgil
Water Disinfecting Device

Robert Kahn
Transmission Control Protocol/ Internet Protocol

Victor Lawrence
Signal Processing in Telecommunications

Radia Perlman
Robust Network Routing and Bridging

Gary Sharp
Polarization-Control Technology

Spencer Silver
Post-it® Notes

James West
Electret Microphone

Robert Willson
Plasma Display

James Wynne
Excimer Laser Surgery

Designing an effective experience

2016 Evaluation

Through a major third-party evaluation, we have discovered that Learning Outcomes are on the forefront of parents' minds when it comes to their children's education. This is exciting news, because we've thoughtfully developed programming that is engaging as well as effective. Our programs are statistically shown to increase creative fluency and flexibility, originality, and the ability to elaborate—all of which have been shown to increase academic achievement.

Parents reported seeing a change in their children after camp in the following constructs:

Creative and critical thinking
Inventiveness
Willingness to try new things
Communication and collaboration with others
Problem-solving
Reengineering/repurposing objects (upcycling)
Positive attitude toward STEM
Interest in STEM careers

Camp Invention has a 92 percent parent satisfaction approval rating! Here's what some of our parents are saying about their child's experience:

"Our son struggles with math/science confidence. I am so excited to see how camp has helped with his learning confidence this year!"

"My twin girls learned so much at camp. It literally changed how they play with their toys at home and even their perception of the world has changed. Thank you!"

"My son had a wonderful experience. He was very nervous when I dropped him off and when I picked him up the first day he said, 'That rocked! I can't wait for tomorrow!' At the conclusion of camp, he was already planning to go again next year."

"The core learning experience (my girls) received and the inspiration to look at items innovatively, pushing the boundaries of their imagination, and bringing it to life was awe-inspiring. They have benefited tremendously, learning they can make a difference in creating for the world they live in. Thank you for the experience!"

"Great programs, great organization, and great communication with families. We love the focus on STEM and science and the location works great for us. The instructors are amazing and know how to engage the kids in learning while keeping it fun and hands on."

Bridging the Gap/Title I

We are pleased to report that our Invention Playground programs are building a strong and positive reputation among the country's preschool community. All of our educational programs qualify for Title I, Title II, Title III, 21st CCLC, Migrant Education, Early Learning Challenge, and Head Start funding as well as state and local district resources.

Ford

Go Further

"Ford Motor Company was born in the imagination of a young man with a big vision. Henry Ford changed the way the world moved. A century later we're still all about innovation, and we are proud to partner with the National Inventors Hall of Fame to provide undeserved children with the Camp Invention STEM experience. As the world leaps forward, we're preparing students to step up to the challenges ahead. That's why Ford supports Camp Invention, an exciting program to help achieve our goal of inspiring the next generation of thinkers and makers."

-**Mike Schmidt**
Director, Education and Global Community Development
Ford Motor Company Fund

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aeop ARMY EDUCATIONAL OUTREACH PROGRAM

Nordson

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Community Foundation LORAIN COUNTY

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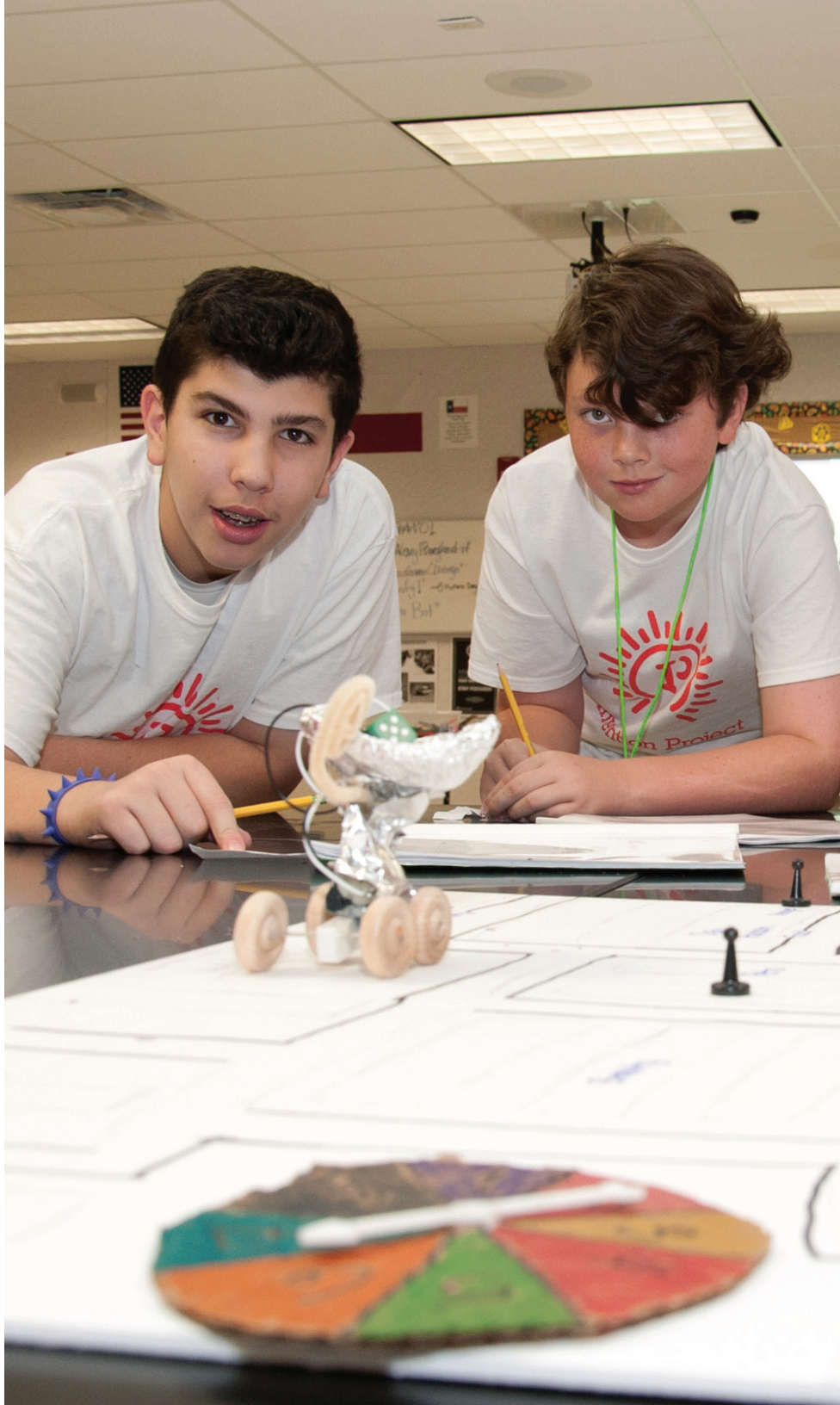
The Amos E. Joel Young Inventors Endowment

NATIONAL INVENTORS HALL OF FAME® ENDOWMENT CHILDREN'S EDUCATION FUND

THINK BIG BE BOLD AND NEVER GIVE UP

Invention Project®



Invention Project

Grades 6-9

In 2016, after months of pilot testing, we released **Invention Project** III, a new program for students in sixth through ninth grade. Invention Project picks up where Camp Invention leaves off and takes learning to the next level. Participants in the program, referred to as Innovators, make connections between innovation, invention, intellectual property, entrepreneurship, and design. Innovators work together in small groups throughout the week, overcoming challenges that range from STEM concepts to starting a business and inventing what could be the next big thing. Throughout the program, Innovators dive deep under the ocean with National Inventors Hall of Fame Inductee Jacques Cousteau and design and build their own Twilight Zone research vehicles; develop a rapid prototype of a new kind of sport that is played while hovering above the ground; perform lab analyses and design an innovative product to diagnose and save a pet; and launch a start-up wearable medical technology company. By the end of the week, Innovators walk away with a greater understanding of intellectual property, obtaining patents and branding a unique new product, and they experience it all through the lens of STEM.

Creativity, exploration, and self-expression are the driving forces behind Invention Project, and you can learn more by visiting our website inventionproject.org.


WARNING

Counselor-in-Training

Grades 7-9

The **Counselor-in-Training** program is an opportunity for seventh through ninth graders to gain real-world experience on how to be a positive mentor and coach. Counselors-in-Training guide Camp Invention participants through their day-to-day activities during the week of the local camp program.

Leadership Intern

Grades 10-12, College

For high school and college students, a **Leadership Internship** is the ultimate resume and college application builder. This is a chance to hone mentoring skills, obtain valuable leadership traits, and gain intellectual property knowledge. The Leadership Intern program is a valuable opportunity for these students and contributes to a greater overall experience for Camp Invention participants.

INVENT.
COMPETE.
ACHIEVE.®

Collegiate Inventors Competition®

Collegiate Inventors Competition

The **Collegiate Inventors Competition (CIC)** is the nation's foremost competition encouraging innovation, entrepreneurship, and creativity in students who are working on cutting-edge inventions at their colleges and universities.

CIC is the only competition that provides graduate and undergraduate students exclusive access to the world's foremost invention experts—National Inventors Hall of Fame Inductees, USPTO officials, and scientific experts—for feedback on optimizing the potential of their inventions. Since 1990, over $1 million has been awarded to 209 of the country's most innovative collegiate students.

CIC connects the inventive spirit with entrepreneurship by allowing students to see the value of their ideas to society. Finalists also receive encouragement to further develop their inventions, patent their work, seek investors, start businesses, and contribute to new economies.

The CIC Expo offered Finalists interaction with USPTO patent examiners and employees, National Inventors Hall of Fame Inductees, corporate sponsors, and leaders in the intellectual property community. Over 2,000 visitors attended the Expo to meet the Finalists and hear about their unique innovations. Visit invent.org/challenge for more information.

2016 CIC Finalists

Steve Sasson, NIHF Inductee and 2016 CIC Judge, with CIC Finalists

Inductee Judges

Eric R. Fossum
CMOS Active Pixel Image Sensor

Marcian (Ted) Hoff
Microprocessor

Don Keck
Optical Fiber

Alois Langer
Implantable Defibrillator

Victor Lawrence
Signal Processing in Telecommunications

Kumar Patel
Carbon Dioxide Laser

Radia Perlman
Robust Network Routing and Bridging

Steve Sasson
Digital Camera

Gary Sharp
Polarization-Control Technology

James West
Electret Microphone

United States Patent and Trademark Office Judges

Elizabeth Dougherty

George Elliott

AbbVie Judges

David Chang-Yen

Jeffrey Pan

Clarisse Hu, Sarah Lee, Bailey Surtees, and Serena Thomas, 2016 CIC Undergraduate Finalists

"I loved interacting with National Inventors Hall of Fame Inductees. I still cannot believe I had dinner with Dr. Jim West and Dr. Alfred Cho. I enjoyed talking to them about their revolutionary work at Bell Labs. Nor can I believe I took a photo with Steven Sasson using his very own invention—the digital camera. It was a weekend of inspiration and empowerment. To this date, CIC remains one of my best memories of graduate school."

-Arlyne Simon
2013 Finalist, University of Michigan
Senior R&D Engineer, Becton Dickinson

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2016 Collegiate Inventors Competition Winners

GOLD MEDALISTS

Carl Schoellhammer
Massachusetts Institute of Technology - Graduate

SuonoCalm: Device for the At-Home Rapid Administration of Therapeutics

Over 1.4 million people in the United States suffer from inflammatory bowel disease. Rectal delivery of medication can be an effective treatment but must be retained for hours or even overnight for greatest efficacy, something that is often impossible for patients. SuonoCalm is a device designed to deliver a wide range of medications directly into tissue using low-frequency ultrasound. Tests have shown superior drug absorption, and it takes just one minute to apply treatment.

Payam Pourtaheri, Ameer Shakeel
University of Virginia - Undergraduate

AgroSpheres

Farmers need pesticides to protect growing crops. But at harvest time, pesticides are a problem. Regulations impose strict waiting periods between pesticide application and harvest, up to 66 days. AgroSpheres are engineered biological particles that degrade residual pesticides on the surface of plants, allowing crops to be safely harvested after just a few hours. This helps farmers avoid crop loss due to unforeseen weather events and at the same time saves the environment from additional pesticides.

SILVER MEDALISTS

Jonathan Perez de Alderete, Brendan Donoghue, Erin Keaney
University of Massachusetts Lowell - Graduate

Nonspec: Adjustable Prosthetics

Freedom from a disability—that's the power of a prosthetic. However, this freedom can be expensive as prosthetic are often specifically tailored and built for one patient at a time. Nonspec's adjustable prosthetic system uses standard, mass-producible components that are easily customized to each wearer, and can also "grow" with a child over time. These production innovations could make life-changing prosthetics available and affordable to people in developing nations.

Aonnicha Burapachaisri, Charles Pan, Aishwarya Raja, Chanond Sophonpanich
Columbia University - Undergraduate

Cathecare

Central line catheters provide a direct way to deliver medicines, fluids, or nutrients to patients over an extended period of time, often weeks or months. However, these catheters also make it easier for bacteria to enter the body and are responsible for 240,000 infections every year. Cathecare uses ultraviolet light to continually and automatically sterilize the hub, the most-handled portion of the catheter and the most susceptible to bacterial growth, stopping infections in their tracks.

BRONZE MEDALISTS

Aaron Blanchard, Kevin Yehl
Emory University - Graduate

Rolosense

Rolosense is an entirely new class of DNA machine that turns chemical energy into rolling motion. This molecular vehicle carries a bead just five microns in diameter at speeds 1,000 times faster than previous motors. The speed of the bead through a sample can indicate the presence of a single gene variation or detect a variety of molecules such as lead using a smartphone application. This could make advanced testing for disease and contaminants more efficient in remote areas where it's needed most.

Clarisse Hu, Sarah Lee, Bailey Surtees, Serena Thomas
Johns Hopkins University - Undergraduate

Cryoablation

Breast cancer rates are rising in low- and middle-income countries, but access to treatment is not. Procedures such as lumpectomies or mastectomies are impractical because they require general anesthesia, are expensive, and have lengthy recovery times. With cryoablation, carbon dioxide gas freezes a probe that kills tumor cells, and insertion of this probe requires only local anesthesia, greatly reducing the cost and time of recovery. This treatment is a promising option for women in desperate need.

CIC Interviews

CIC Expo

CIC Awards Ceremony

Honoring the Greatest Innovators™

National Inventors Hall of Fame®

Mo Rocca, Master of Ceremonies, 2016 NIHF Induction

Mo Rocca, Master of Ceremonies, with 2016 Mighty Minds winner Oyon Ganguli

Museum

To mark the 2016 Induction events, we installed new exhibits at the National Inventors Hall of Fame Museum that include displays of the 2015 and 2016 Inductees. The exhibits feature unique artifacts, like the first butyl rubber reactor used by William Sparks and Robert Thomas, and some of the first devices manufactured using electronic ink, which was invented by Joe Jacobson, Barrett Comiskey, and JD Albert.

At the same time, we debuted the new *Intellectual Property Power®* exhibit that showcases the compelling power of intellectual property and illustrates how patents and trademarks can shape a culture. The Museum was expanded to accommodate new displays, including a 1965 Ford Mustang merged with a 2015 Ford Mustang and a new Qualcomm exhibit on the incredible evolution of cell phone technology. It serves as a physical representation of the evolution of automotive design and technology over 50 years.

Additional exhibits introduced in 2016 include a Women's History display in March showcasing women Inductees, and the *Visionary Veterans®* display in November honoring the contributions of those inventors who served in the United States Navy.

Throughout the year, the Museum serves not only as a destination for those interested in innovation, patents, and trademarks, but also as a must-see for visiting dignitaries and business executives to the USPTO.

Induction

At the National Inventors Hall of Fame 44th Annual Induction events, we honored a group of the nation's most distinguished innovators for their monumental breakthroughs and pioneering work. In their own ways, these 16 inventors made a global impact through inventions that promote economic and social progress.

On May 4th, the Inductees gathered at the National Inventors Hall of Fame Museum for the Illumination Ceremony. The new Inductees placed their names within the Gallery of Icons™, joining the display of all Inductees who represent the progression of the useful arts by leveraging the U.S. patent system.

The Induction Ceremony was held on May 5th at the Smithsonian American Art Museum and the National Portrait Gallery to celebrate the accomplishments of the 2016 Inductees. Among those paying tribute to the group were former U.S. Secretary of Commerce Penny Pritzker and many past Inductees of the Hall of Fame. The 2016 Inductees' stories echoed throughout the Gallery and served as inspiration to younger generations in the audience. Among them were Collegiate Inventors Competition participant Nick McGill and Camp Invention participant Oyon Ganguli, who then joined the stage to acknowledge these innovators as mentors and heroes.

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2016 NIHF Induction Ceremony

Class of 2016 Inductees

JD Albert
Electronic Ink

J. Roger P. Angel
Lightweight Mirrors for Astronomical Telescopes

Roger Bacon
High-Performance Carbon Fiber

B. Jayant Baliga
Insulated Gate Bipolar Transistor

Per-Ingvar Brånemark
Modern Dental Implant

Barrett Comiskey
Electronic Ink

Joseph Jacobson
Electronic Ink

Sheldon Kaplan
EpiPen® Auto-Injector

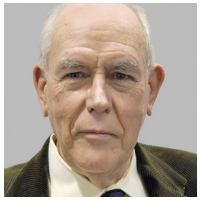
Victor Lawrence
Signal Processing in Telecommunications

Radia Perlman
Robust Network Bridging and Routing

John Silliker
Microbiological Food Safety and Testing

William Sparks
Butyl Rubber

Harriet Strong
Water Storage and Flood Control



Ivan Sutherland
Sketchpad – A Man-Machine Graphical Communication System

Welton Taylor
Microbiological Food Safety and Testing

Robert Thomas
Butyl Rubber


199
2
1

Edith Flanigen, NIHF Inductee

Eric R. Fossum, NIHF Inductee

NIHF STEM Schools/VIP

The National Inventors Hall of Fame (NIHF) STEM Middle School and High School, part of Akron Public Schools, have an established and successful Problem-Based Learning structure in which children gain experience by solving open-ended challenges. With the support of the John S. and James L. Knight Foundation, our Visiting Inductee Program brings in NIHF Inductees to work with these students to enhance their educational experience.

In 2016, the students welcomed Eric R. Fossum, inventor of the CMOS image sensor. Fossum gave a presentation to a group of students that was also broadcast to every room in the school. He explained the development of the CMOS sensor and its impact, and he entertained questions from both the live and broadcast audiences. NIHF Middle School teachers were also able to sit down with Fossum one-on-one. They talked about the importance of encouraging hands-on learning and reviewed with him how Problem-Based Learning is used across the curriculum.

The inventor of molecular sieves, Edith Flanigen, also visited the NIHF Schools in 2016. Long admired as a role model for girls and young women, Flanigen participated in a round-table discussion with students at the NIHF High School. At the NIHF Middle School, she observed seventh grade science classes at work and then spoke with the seventh grade teachers to learn more about the objectives of the classroom activities.

2016 also saw exciting changes to the collaboration between NIHF and the NIHF Schools. Multiple professional development workshops took place on-site at the schools to share NIHF's educational philosophy. In addition, the NIHF Middle School hosted the Camp Invention program for four weeks with 100% scholarship support, as well as the Club Invention and Invention Project programs. The NIHF Middle School also brought in high school students to provide them with intellectual property literacy and leadership training through our Leadership Intern program.

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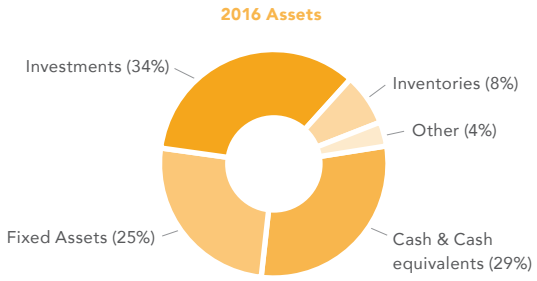
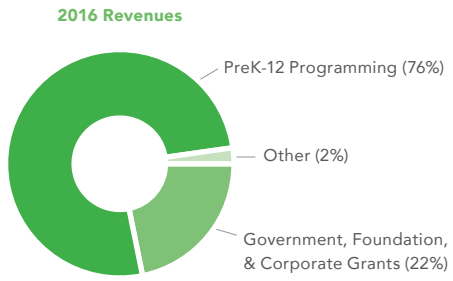
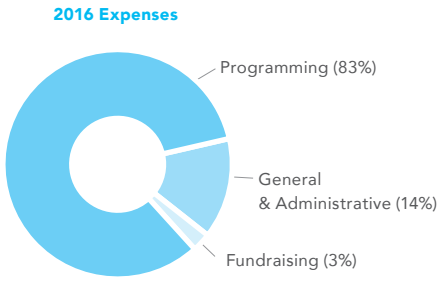
Financial Statement (in thousands)

Statement of Financial Position	2016	2015
Assets		
Cash & Cash Equivalents	$6,814	$7,240
Accounts Receivable	202	88
Grants Receivable	97	348
Inventories	1,713	919
Investments - Market Value		
Endowment	4,826	4,556
Operating	630	593
Board	2,576	2,378
Other Assets	502	264
Buildings, Exhibits, Collections, Software, & Equipment - Net	5,926	3,382
Total Assets	**$23,286**	**$19,768**
Liabilities and Net Assets		
Accounts Payable & Accrued Expenses	$1,706	$1,165
Other Liabilities	1,072	923
Total Liabilities	$2,778	$2,087
Net Assets	$20,508	$17,681
Total Liabilities and Net Assets	**$23,286**	**$19,768**

Statement of Activities	2016	2015
Revenue		
K-12 Education Programs	$19,263	$18,044
Government, Foundation, & Corporate Grants	5,530	5,927
Store	64	71
Realized & Unrealized Gains (Losses)	473	(138)
Other Revenue	58	66
Total Revenue	**$25,387**	**$23,970**
Expenses		
Outside Services	$6,608	$6,896
Salaries, Wages, & Benefits	8,447	8,066
Other Expenses	2,628	2,695
Printing, Postage, & Supplies	3,199	2,773
Advertising	1,257	1,308
Depreciation	421	359
Total Expenses	**$22,560**	**$22,097**
Increase/(Decrease) in Net Assets	$2,827	$1,873
Net Assets, Beginning of Year	$17,681	$15,808
Net Assets, End of Year	**$20,508**	**$17,681**







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