



SPACE FOUNDATION

**2018**

Annual Report

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## A Letter from Space Foundation CEO Thomas E. Zelibor



In 2019, we celebrate the 50th anniversary of some of the Apollo program's greatest achievements. The lunar landing of Apollo 11 was more than a "giant leap for mankind." It was a transformative moment for all of humanity, and it showed the tremendous potential we as a people have when we bring innovation, aspiration, technology, and courage together. Even a half-century later, the lunar steps of the Apollo astronauts remain arguably the most daring and awe-inspiring endeavor in history. But as we celebrate these past triumphs, we must be mindful that the Moon landing was a down payment on the opportunities that are unfolding today. It's not just where we have been that is exciting. It's where we're going.

Since 1983, the Space Foundation has been dedicated to inspiring, educating, advocating, and connecting on behalf of the space community. As a charitable organization, we are committed to engaging the public, private, nonprofit, academic, and other sectors pursuing world-changing endeavors that benefit the public interest. In this, we bring together a diverse, international space community united by its aspiration to reach for the stars and bring the rewards we realize back to Earth.

Thirty-six years later, our mission is as important as it has ever been. In the vibrant global space industry, we are on the cusp of new ventures to the Moon, Mars, and beyond. New technological capabilities are being developed, tested, and brought to market at a rapid pace. Joining this dynamic environment are new organizations, competitors, and countries from around the world that are looking for their own opportunities for discovery. In short, the space community has entered a new era, and the Space Foundation's work in 2018 and in the years ahead is contributing to the collaboration and growth that will take us places we have never ventured before.

Our 2018 Annual Report records much of the story and impact of our recent ventures, from record-breaking annual Space Symposium attendance to growing global interest in our STEM curricula and professional educator development programs. But building a space-aware, empowered generation is not just about celebrating the past. It's about building a future where opportunity, diversity, and capabilities always have a home. In the 2018 Annual Report, we share our roadmap for how we will cultivate this exciting future by bringing more students, teachers, entrepreneurs, policymakers, innovators, investors, advocates, and more to the space community table.

I invite you to explore all of our efforts and join us in a universe of possibilities. There is hard work to be done, opportunities to share, and stories to tell. Together, we can all find out what happens next.

A handwritten signature in blue ink, which appears to read "Tom Zelibor". The signature is fluid and cursive, written on a white background.



# Educating and Inspiring Tomorrow's Explorers and Innovators

In 2018, the Space Foundation continued its mission to excite young people about space and to inspire them to explore a future in the science, technology, engineering, and mathematics (STEM) fields. With a variety of on-site and virtual programming, field trips, innovative technologies, education research, and the renowned Discovery Center in Colorado Springs, the Space Foundation reached more than 46,000 students and teachers from around the world.



## Inspiring Students

Today's students are tomorrow's engineers, physicists, electricians, business leaders, innovators, and even astronauts. The Space Foundation is dedicated to inspiring young people with the excitement of space to encourage them to explore, embrace, and pursue futures in a STEM profession.

### A World-Class Center for Discovery

The Space Foundation's Colorado Springs-based Discovery Center gives students, teachers, and families a glimpse of the universe and an opportunity to imagine how they will take part in the next great human adventure in space. The Discovery Center is home to a permanent collection of fascinating space artifacts and exhibits and hosts hands-on education labs, catering to tens of thousands of visitors every year.

### Hands-On Learning in Space Education

Hands-on learning is a powerful educational tool, and the Discovery Center's education labs give students an opportunity to be immersed in an experience with the technologies and concepts used in space exploration.

At the Discovery Center's Battelle Underwater Drone Laboratory, students encounter hands-on activities such as "Mission to Europa," a role-playing exhibit that allows visitors to imagine a robotic mission to the Jovian water-world in search of life.

Visitors to the Lockheed Martin Space Education Center can explore the Space Foundation's Mars Robotics Laboratory, one of the largest labs of its kind in the world. There, students use LEGO® EV3 equipment and MINDSTORMS® software to simulate lifelike Mars rover missions. Just like the NASA experts controlling Mars rovers from afar, young people from around the world can control Space Foundation rovers and complete missions in real time.

Still more students visit the Northrup Grumman Science Center, which hosts the Space Foundation's renowned Science On a Sphere®, a dynamic projection system that uses special software and satellite imagery to render full-motion views of the Earth, our Moon, the sun, the planets of the Milky Way, and other bodies in our solar system and beyond.



### Discover the Universe Field Trips

On our mission to encourage student passion for STEM subjects, the Space Foundation delivers standards-based curriculum using space principles to integrate STEM in all content areas. Programs are delivered directly to students in the Discovery Center laboratories, as well as in the classroom and in after-school settings to be able to take this field trip of a lifetime. The scholarships cover the cost of admission and provide a stipend for transportation.

In 2018, 12,382 students took field trips to the Discovery Center. Thanks to the generosity of our donors, the Space Foundation was able to provide field trip scholarships to nearly 2,000 students from at-risk and under-represented schools.

"I will forever treasure these memories and utilize the resources I have gained for the rest of my teaching career."

**Courtney, 8th grade Science Teacher, Fort Myers, FL / Teacher Liaison**

## Supporting Educators

For more than three decades, the Space Foundation has offered professional development training for teachers. Programming provides space-related, STEM-focused curricula to help instructors lead students to a love of science, mathematics, and related subjects. In July 2018, the Space Foundation hosted one of its many annual "Space Across the Curriculum" educator professional development programs.

This program helps teachers develop skills and strategies for using space-themed activities in the classroom to intrigue students about STEM subject matter. More importantly, the program is designed for teachers of all subjects, not just mathematics and science, as space is a compelling and inspiring topic for engaging students across the entire curriculum. With a generous donation from Dr. Rochelle Abrams, the Space Foundation offered nine scholarships for teachers to attend the three-day program in Colorado Springs.

## Empowering Teacher Liaisons

Since 2004, the Space Foundation has offered its Teacher Liaison Program to prepare and encourage space and science education internationally by supporting teachers who shape the next generation of STEM professionals. In 2018, the Space Foundation selected 31 outstanding educators from around the world to join the program, including teachers from India and Nigeria. Today, more than 250 Teacher Liaisons are promoting space-themed education globally thanks to the Space Foundation's education programs and investments.

## Space in Community in 2018

**Tulsa, Oklahoma** – Featuring two astronauts and three Space Foundation education leaders, the 10-day program reached 16,000 students at 24 schools and inspired more than 600 more young people and families through the sold-out Community Night, Teacher Professional Development program, and the Art Crawl.

**Colorado Springs, Colorado** – Led by an astronaut and three education leaders, the 3-day 2018 program brought space-themed learning to 3,000 students in 6 schools.



## Enriching the Community

Using space as the "hook" to educate and inspire young people builds STEM interest and pursuits that are increasingly essential in a technology-driven era. When students, surrounded by their families and community, find a passion for space and STEM, they are empowered to dream big, to work hard, and to be the innovators and explorers of tomorrow.

### Partnering to Expand Opportunities

In July 2018, the Space Foundation partnered with the Department of Housing and Urban Development (HUD) and other organizations to debut the EnVision Center Demonstration, a HUD-initiative to help all Americans climb the ladder of opportunity. EnVision Centers will provide communities with a centralized hub for support in: economic empowerment; educational advancement; health and wellness; and character and leadership. The education aspect is focused on bringing educational opportunities to those living in HUD-assisted housing by partnering with public and private organizations. For the Space Foundation, the goal is to inspire and engage students in the technology and learning that will lead them to 21st century careers.

### Bringing Space & STEM to Local Communities

The Space Foundation's "Space in the Community" program is designed to help communities develop a Pre-K-through-20 STEM pipeline, grow their organic workforce, and strengthen economic development and opportunities. Offered virtually or on site, "Space in the Community" delivers events and activities that bring communities together to learn about space and the challenging, dynamic professions requiring STEM education. Events such as Audience with an Astronaut™ bring real-life space explorers into the classroom to engage students and spark their imaginations and interest.

### Summer of Discovery

Each summer, the Space Foundation offers the "Summer of Discovery," a 10-week program of space activities that bring together students and parents to share in the excitement of discovering the many wonders of space exploration. Last year, more than 9,000 students and families visited the Discovery Center during the Summer of Discovery. In 2018, the theme was "Suit Up!", offering a hands-on exhibit exploring the challenges and considerations scientists and engineers weigh when designing the spacesuits of the future.

"The strength of the EnVision Center concept, combined with Space Foundation educational expertise, will help achieve the goal of expanding opportunities for more Americans to become self-sufficient. We are proud to be a part of this initiative."

**Space Foundation CEO Thomas E. Zelibor**



# The Premier Gathering for the Global Space Community

The Space Foundation's 34th Space Symposium drew more than 9,000 space leaders, executives, and government officials from around the world to discuss the challenges, opportunities, and future of the space community. With participants from 41 countries and 46 U.S. states, the 2018 Symposium was the largest assembly of its kind facilitating important discussions, connections, and ideas that support and propel all space sectors.

Global in all aspects of the Symposium, 2018 saw the attendance of 15 heads of international space agencies.



"The work each of you do in the skies and in space supports our armed forces, spurs scientific discovery, drives innovation, helps America's farmers feed the world, creates the jobs of the future, and fills the rising generation with wonder and pride."

**Vice President Mike Pence, speaking at the 34th Space Symposium**

## Symposium Tracks for All Space Sectors

From keynote addresses and networking dinners to technical discussions and classified meetings, the Symposium's variety of engagements delivered outsized value and reaffirmed why the annual conference is considered a "must attend" event for the space community.

### Engaging the New Generation of Space Leaders

The foremost space leaders and explorers of tomorrow are entering the space community today and charting their own enterprising path to the stars. With the New Gen Space Leaders program, the Symposium brought high-achieving young space industry professionals deeper into the community to generate the relationships and mentoring that can help them grow and succeed. In 2018, more than 400 new generation space leaders participated in the program, and already the Space Foundation regularly learns of long-standing partnerships that have bloomed to benefit both young and established professionals alike.

### Taking a Technical View

The 2018 Symposium's Tech Track provided an opportunity for 30 participants to present a 20-minute Tech Talk covering issues related to space launch, spacecraft technologies, architectures, processes, and other matters. Additionally, Tech Track participants heard a number of senior leaders provide remarks looking at innovation and technology development.

### Involving Educators and Their Students

With the Space Foundation's long-term focus on fostering STEM education and aspiration to be the world's leading space education resource, the Symposium was a unique opportunity for 91 of the Foundation's Teacher Liaisons to meet, engage, and interact with professionals about the many activities and challenges in space. These first-person connections expand networks, enrich knowledge, and help these educators invigorate efforts in their school districts and classrooms to incorporate space-themed STEM learning.



### Forging Tomorrow's Space Laws

In coordination with the International Institute of Space Law (IISL), the 34th Symposium offered a Space Law Workshop. The gathering included remarks from distinguished leaders in the space community, including General Counsels from NASA, the European Space Agency, and the UAE Space Agency. The 2018 workshop, which drew more than 100 participants, covered topics including space law and the importance to space business, the legal aspects of space mining, and space traffic management.

### Special Classified Sessions

The Symposium offered a chance for 400 senior government leaders and industry executives to speak in classified settings, using a secure location and requiring appropriate clearances to attend. The two highly limited sessions addressed both space and cybersecurity issues and allowed for a critical dialog between government and industry.



# Original Data, Research, and Analysis to Fuel the Space Industry

For a decade, the Space Foundation has annually produced The Space Report, an authoritative guide to the global space economy, infrastructure, workforce, and products and services. In 2018, the report revealed powerful trends and insights from across all space sectors showing the emerging vitality, momentum, and promise in the space community.

## The Space Report at a Glance

The global space industry grew more than 7% in 2017, reaching a total of \$383.5 billion. Traditional sectors for space commerce have continued to grow and are being joined by innovative new space companies. Last year's Space Report revealed that commercial sectors experienced the greatest growth of all global space activities, accounting for more than four-fifths of the global space economy.

Meanwhile, governments continue to recognize the value of space assets for a variety of economic activities, scientific research, and national security. Government space budgets in aggregate grew by nearly 14% in 2017, and governmental space spending accounted for almost a fifth of the global space economy.

Given increased public and private space initiatives, the space launch vehicles transporting spacecraft for communications and other purposes into orbit are in high demand. In 2017, there was a 100% increase in the total number of spacecraft deployed and a 200% increase in the number of commercial spacecraft deployed. This trend continued into 2018 with a record-setting 114 orbital launch attempts.

"The only document of its kind; it brings really everything in the whole aerospace industry together in one book."

**Capt Mike McCulley, USN (Ret.), former United Space Alliance CEO and NASA Astronaut**

## An Up-to-Date Digital Resource for a High-Tech Community

With fast-paced change and activity across all space sectors, keeping up with advances and trends is a constant effort. Looking to data on launches, satellite deployments, mission segments, and more space industry activities, the Space Foundation's researchers and analysts regularly uncover emerging trends and insights, which are available year-round via The Space Report Online. The data portal provides subscribers with all the research informing the annual report since its inception and offers new datasets that have never appeared in the report. The website's information is updated daily, giving subscribers reliable data that can give them confidence in the decisions they make as an organization.

# And the Space Foundation Awards Go To...



Diego Martinez

The Space Foundation honors leaders in the space community with awards for their achievements in space exploration, advocacy, education, and innovation.

### General James E. Hill Lifetime Space Achievement Award

The highest honor the Space Foundation bestows, the award recognizes outstanding individuals who contribute to the betterment of humankind through space-related endeavors. The 2018 awardee was **Christopher Columbus "Chris" Kraft, Jr.**, the first U.S. human space mission flight director, credited with establishing NASA's Mission Control Operations.

### John L. "Jack" Swigert, Jr. Award for Space Exploration

Named in honor of the Apollo 13 astronaut, the award is given in tribute to Swigert's enduring legacy of space exploration. The 2018 award went to the **Cassini Mission Team**. The Cassini-Huygens mission, a collaboration between NASA, the European Space Agency, and the Italian Space Agency, was a mission to study Saturn, its rings, and its moons.

### Douglas S. Morrow Public Outreach Award

Named for the writer, producer, and space advocate, the award recognizes significant contributions to public awareness of space programs. Author **Margot Lee Shelterly** received the 2018 award for her book, *Hidden Figures: The Story of the African-American Women Who Helped Win the Space Race*, which tells the true story of three female, African-American NASA mathematicians who were essential to the Mercury and Apollo missions.

### Space Achievement Award

The award recognizes a space achievement representing critical milestones in the evolution of space exploration and development. The 2018 award was given to the **Space Security and Defense Program**, a joint organization of the U.S. Department of Defense and Office of the Director of National Intelligence, which develops options and strategies for a more resilient National Security Space Enterprise.

### Alan Shepard Technology in Education Award

Given in conjunction with the Astronauts Memorial Foundation (AMF) and NASA, the award recognizes outstanding contributions to creative and innovative use of technology in education. The 2018 award was given to **Diego Martinez**, a career STEM teacher who is currently a Science Mastery Specialist for Delphian School in Oregon.

### Space Technology Hall of Fame®

The Space Foundation's *Space Technology Hall of Fame®* honors leaders and innovators who transform technology originally developed for space application into products that help improve the quality of life on Earth.

**Dr. Po-Shou Chen**, a senior scientist at Jacobs Space Exploration Group, and **Jonathan A. Lee**, a materials scientist at NASA's Marshall Space Flight Center, were inducted for their work with "NASA 398," a high-strength, wear-resistant aluminum alloy that has been used in applications such as manufacturing marine engines and life-saving tunnel safety fan systems.

**Dr. Markus Knappek and Joachim Horwath**, co-founders of the laser communications company Mynaric, were inducted into the Hall of Fame for their work with miniaturized laser terminals for aircraft, UAVs and satellites, which are ideally suited to meet the growing global communications demands.

### Engaging the Next Generation of Space Visionaries

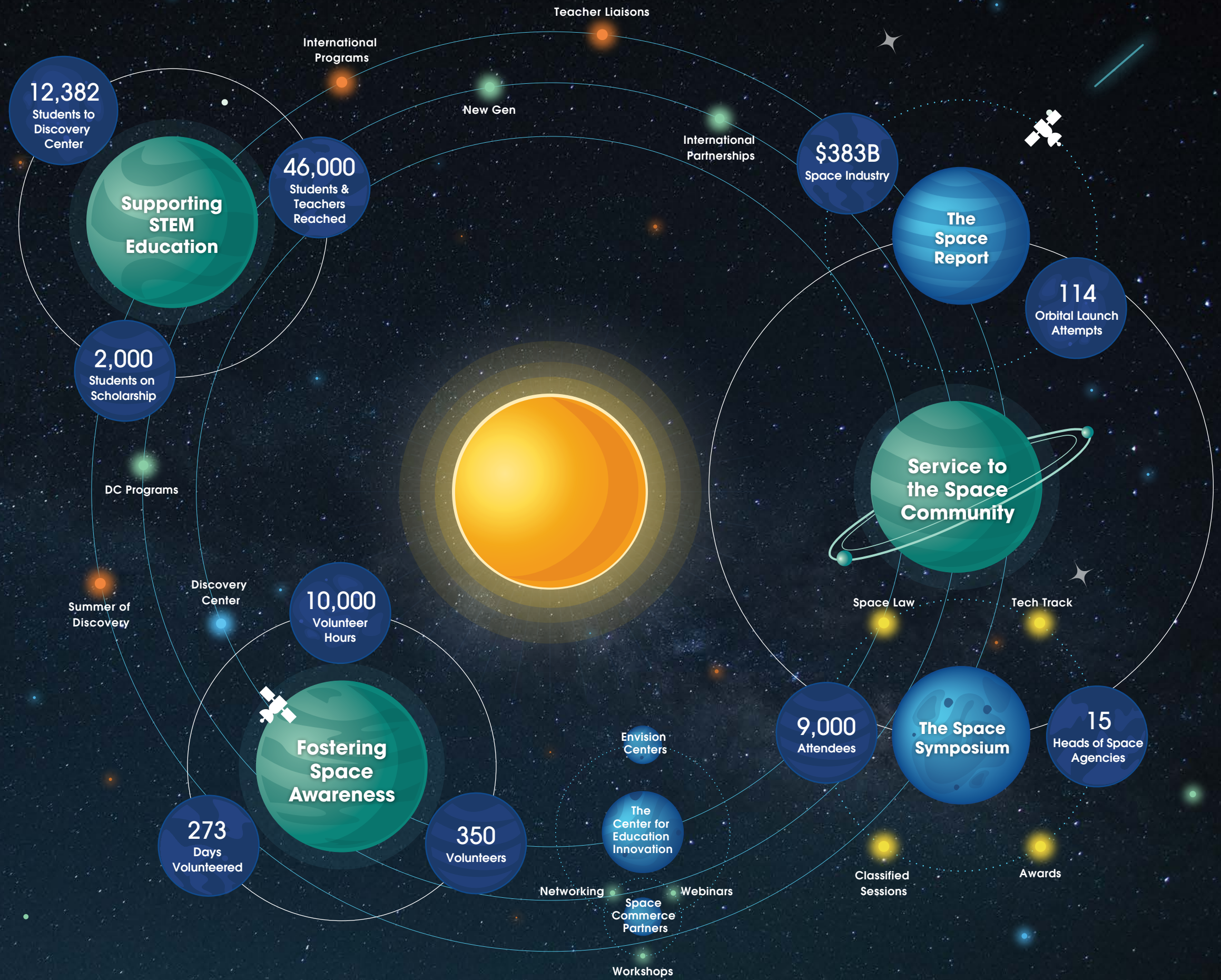
The Space Foundation's International Student Art Contest inspires young people to imagine the exciting adventures of space and to share their vision through art. In the 2018 contest, more than 4,500 entries were submitted from 57 countries and 37 U.S. states. The winning entries were shown at the Space Foundation's 34th Space Symposium and are now displayed at the Discovery Center and online.



SPACE FOUNDATION

# Fueling the Future in Space

The Space Foundation's mission is to inspire, educate, connect, and advocate for the global space community.





# Volunteering to Support the Space Foundation Mission

Operating in space takes teamwork, and at the Space Foundation, volunteers are essential members of our team. With backgrounds in space exploration, engineering, astronomy, and many other fields, our world-class volunteers are engaged and excited to support the Space Foundation’s mission to inspire, educate, connect, and advocate for the global space community. In 2018, we were fortunate to have nearly 500 people collectively volunteer for more than 10,000 hours.

## Touring the Universe with Volunteer Space Experts

Discovery Center visitors were offered captivating tours and activities thanks to volunteer docents, activity supporters, those working with museum collections, and many others. With dozens of eager space and STEM enthusiasts regularly donating their time, the Discovery Center volunteers were on site and working hard more than five days a week in 2018. Visitors received personal tours and hands-on learning from space community leaders, like former NASA scientists, military service members, and geospatial engineers.

## Serving the Space Community at the Annual Symposium

Presenting the Space Foundation’s annual Space Symposium requires hundreds of people working together. In 2018, 350 dedicated volunteers answered the call and helped the Space Foundation deliver an event that attracted some 9,000 individuals from the space community. With dozens of meetings, keynotes, receptions, and other activities at the Symposium, the Space Foundation volunteers were essential parts in the largest, most important space conference in the world.



“Volunteering for the Space Foundation, I feel that I can help people to better understand what the space program is about, why it is important to them, and to encourage youngsters to further their knowledge in science, technology, education, and math.”

**Lou Ramon, Andromeda Club Member**

## Recognizing Excellence and Commitment

In 2018, the Space Foundation was proud to welcome four dedicated volunteers into its Andromeda Club, which recognizes individuals who have donated more than 1,000 hours of their time to our mission. With their enthusiasm, commitment, and expertise, Jan Carlson, Steven Crowe, Wendy Perelstein, and Lou Ramon have all helped the Space Foundation make important contributions to the space community and STEM education. We also thank the hundreds of other volunteers in the Space Foundation’s Mars, Moon, and Milky Way clubs for their tireless work and dedication.



**Jan Carlson**

Visitors to Space Foundation activities and events are likely to meet Jan Carlson, whether at the Discovery Center admissions desk or in one of her many other volunteer roles. After a career in administration, Jan volunteers with her husband George, a 21-year veteran of the U.S. Air Force. Jan and George began volunteering in 2011 at the 27th Space Symposium.



**Steven Crowe**

A retired systems analyst and engineer for satellite command and control systems, Steve Crowe is a trained astronomer and expert in astrodynamics. Prior to his retirement, he worked primarily on systems used by the U.S. Air Force Satellite Control Network. Since 2012, Steve has volunteered at the Space Foundation’s Discovery Center working with students, teachers, and visitors, as well as at the annual Space Symposium.



**Wendy Perelstein**

Working with the Space Foundation’s education and IT teams, Wendy Perelstein is a leader among volunteers. Her biggest impact has been in the Discovery Center, where she created presentations for Science On a Sphere®. As lead docent, she trains new volunteers and shares her tips for engaging and educating audiences about space and how future generations can shape its exploration.



**Lou Ramon**

A 50-year veteran of the space community, Lou Ramon has been involved in nearly every U.S. human spaceflight program. As part of the Apollo 11 team, he worked alongside astronauts Neil Armstrong and Buzz Aldrin on the mission that forever changed the world. After the Apollo flights, he worked as part of the Space Shuttle team and later led a team that helped design the International Space Station. As a docent at the Discovery Center, Lou draws on his decades of experience to engage, educate, and fascinate visitors.



# Donations Fueling Our Service to the Space Community

As a 501(c)(3) nonprofit organization, the Space Foundation relies on the generous contributions and partnerships that allow us to offer a broad and far-reaching range of space-focused education and community engaging programming. In 2018, individual, foundation, and corporate donations directly supported STEM education, awareness of space activities, and service to the space community. The Space Foundation thanks its donors and celebrates their generosity that will lead to even more innovative and impactful results for everyone's benefit in the years ahead.

## Expanding Opportunities through the Discovery Center

The Space Foundation is preparing to triple the size of its Discovery Center thanks to lead investments in 2018 from Colorado Springs-based El Pomar Foundation and Grapevine Investments, LLP, and Denver-based Anschutz Foundation. With their significant contributions, the Discovery Center will soon grow so more students, teachers, families, and space community partners can take part in the Space Foundation's missions.

"The Space Foundation is a vital economic and educational crown jewel of our community."

**Scott Bryan, Grapevine Investments**



## Supporting Teachers Who Inspire Tomorrow's Space Leaders

The Space Foundation was honored in 2018 to receive from Dr. Rochelle Abrams a tremendous gift agreement, one of the largest the Space Foundation has received. Dr. Abrams, a systems engineer at a space and defense company, offered the donation because she believes teacher education is the best way to influence the most children and encourage them to explore space and STEM fields. Long term, Dr. Abrams' gift creates an endowment to provide ongoing support for the Space Foundation's new "Dr. Rochelle Abrams Space Across the Curriculum Educator Training Scholarship and Congressional Space Policy Education Program." The program will help build the future space and STEM workforce we need while also educating policy makers about the importance of supporting space and STEM education.

## The Space Foundation is a proud participant in the Combined Federal Campaign



Space Foundation CFC #71807. Thank you for your service!

## Other Space Foundation Investors

**STEM Education for All** – In partnership with the Petit Family Foundation and with sponsorship from Aetna, the Space Foundation expanded its STEM education initiatives to young women and teachers in the greater Hartford, Conn., region. The Hartford STEM Initiative launched in October 2018 with a free Girls STEM Experience, catering to hundreds of middle and high school students. With interactive discussions with notable women scientists, explorers, academics, and executives at leading STEM-related institutions, participants in the new initiative enjoyed hands-on STEM activity stations, including robotics coding, LIDAR surface mapping, rocket engineering, and a design lab.

**Annual Leadership Investors Make an Impact** – Created to bring together people who are passionate about space, through their donation of \$1,300 or more—in remembrance of Apollo 13's extraordinary mission and crew—members of the Swigert Society make significant and innovative opportunities a reality by providing funds to jump-start key efforts. It allows maximum flexibility to meet needs in real-time and advance efforts toward achieving the Space Foundation's mission.

## A Commitment to Employees

In 2018, for the fifth time, the Space Foundation was designated by the NonProfit Times and Best Companies Group as among the "50 Best Nonprofit Organizations to Work for in the United States." The competitive designation identifies nonprofit organizations that have excelled in creating quality workplaces for employees.

# A Growing Global Presence

The Space Foundation executes a range of activities internationally in our service to the space community. The Foundation's global reputation has attracted increased corporate membership, greater participation at the annual Space Symposium, and numerous speaking invitations to engage audiences abroad.



## The Space Symposium's Global Reach

In 2018, 15 space agency heads from around the globe, along with multiple ministry-level delegations, attended the 34th Space Symposium. The Space Foundation hosted meetings and special events and supported the U.S. State Department, Defense Department, and NASA bilateral and multilateral meetings. Russian cosmonaut Sergei Krikalev again supported the Symposium's Yuri's Night Celebration, commemorating the accomplishments of Yuri Gagarin's first manned spaceflight in April 1961.



## International Astronautical Congress 2018

The Space Foundation participated in the International Astronautical Congress 2018 in Bremen, Germany, with a four-person delegation led by Space Foundation CEO Tom Zelibor. The delegation's activities included the General Assembly, meetings of the Space Education and Outreach Committee, the Museums and Science Centers Committee, young professional's Space Generation Congress, and numerous bi-lateral meetings with heads of space agencies. Notably, the Foundation signed an agreement with the Italian Space Agency and Fiera Roma to conduct a December 2019 New Space Economy Expo in Rome.

## Space at the United Nations

For nearly 20 years, the Space Foundation has participated in the UN Committee on the Peaceful Uses of Outer Space (UNCOPUOS) as a private sector advisor to the U.S. delegation, representing private sector interests in meetings of the committee and to the delegation. In 2018, the Foundation co-hosted the official U.S. reception for all delegations and the UN Office for Outer Space Affairs.

"A partnership with the Space Foundation gives us enormous momentum. Having our team of top organizers in the industry gives us a tremendous start to building an event...to show the new business models that form the New Space Economy."

**Pietro Piccinetti, CEO and General Manager,  
Fiera Roma**

## Engaging the International Space Community

The Space Foundation's leaders are invited to speak in a number of forums, particularly on our Space Education and Space Awareness activities. In 2018, these international engagements included UNISPACE+50 High Level Forum/Space Generation Forum 2.0 in Vienna, the World Conference on Science Literacy in Beijing, the International Astronautical Congress Hosts Summit in Bremen, Germany, and the 20th International Air and Space Fair (FIDAE) in Santiago, Chile.

## U.S.-German Aerospace Roundtable

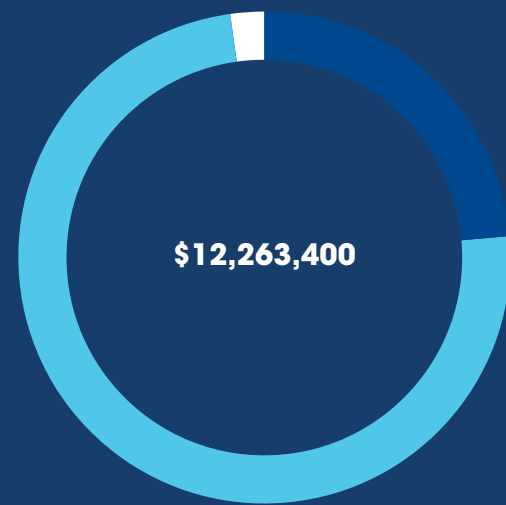
To foster trans-Atlantic relationships, mutual understanding, and business opportunities, the Foundation conducts the UGART in partnership with the German Aerospace Agency (DLR), holding 2018 meetings in Colorado Springs, as well as in Bremen, during the International Astronautical Congress.



# 2018 Financials at a Glance

The Space Foundation preserves a sustainable balance between earned program income, contributions and grants, and other investments. Our annual expenses are focused exclusively on our mission to serve the space community, support STEM education, and expand awareness of the many vibrant space endeavors taking place around the world.

## Revenue



## Expenses



Contributions and grants	\$2,893,800	Program	\$7,467,300
Earned program income	\$9,137,600	Management and operations	\$3,698,200
Investment and other	\$232,000	Fundraising	\$32,200
<b>Total</b>	<b>\$12,263,400</b>	<b>Total</b>	<b>\$11,197,700</b>

**Total Net Assets: \$8,000,300**



The Space Foundation is a proud silver-level participant in the Guidestar Exchange program, which fosters nonprofit transparency on a national scale.

## Space Foundation Activities in the Year to Come

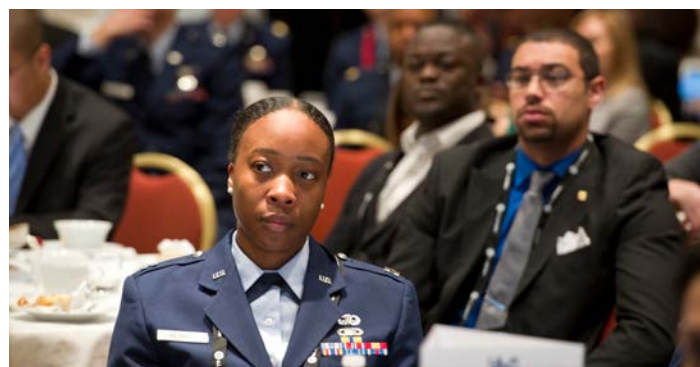
This year, 2019, is an amazing year for space. While we celebrate some of the Apollo era's greatest achievements, there are new and diverse companies and countries entering the space domain.

As important as it is to celebrate and remember the events of 50 years ago, it is the next half-century that is even more important for the next great human adventure in space.

### We Always Have Space4U

Today, a new generation of space explorers and innovators are emerging in the space community. In 2019, the Space Foundation is introducing its podcast, Space4U, to share the stories, insights, and reflections of today's space explorers and innovators. Highlighting the diversity of talent shaping today's space adventure, Space4U excites and inspires listeners by instilling a better understanding of how space is changing life and creating opportunity on this planet and beyond it. Designed to be a casual, non-technical, and engaging conversation, Space4U podcasts give the audience an opportunity to listen in on conversations they would never otherwise hear. **To listen to Space4U, go to [SpaceFoundation.org/space4u](https://SpaceFoundation.org/space4u).**





## A Center for Research, Education and Innovation

With its mission to serve as the premier space-focused STEM education organization in the world, the Space Foundation is establishing the Center for Education Innovation. With this, the Center will pioneer “immersive education”

programs using Augmented and Virtual Reality techniques, as well as the Discovery Center education labs, to put students in real-world scenarios where they apply critical learning skills.

The Center will also research and publish innovative education methods, and the Space Foundation’s Education team will consult with museums, school districts, and other places of learning to continue to share best practices on engaging young people with space-themed STEM education.



## Space Commerce Partners Program

The Space Foundation, in partnership with the U.S. Department of Commerce’s Minority Business Development Agency (MBDA), is inviting entrepreneurs and business leaders to explore new and emerging business opportunities in the space community. In 2019, the Space Foundation will host one-day training workshops across the country that will provide insights and guidance to address the most common challenges these companies face.

### Workshops Coming in 2019

- Los Angeles, California - January 26, 2019
- Houston, Texas - February 5, 2019
- El Segundo, California - February 21, 2019
- Pasadena, California - February 22, 2019
- Daytona Beach, Florida - February 26, 2019
- Washington, D.C. - March 5, 2019

The Space Commerce Partners Program is also unveiling an informative and engaging series of speaker events and webinars.

For more details, go to [SpaceFoundation.org/SpaceCommerce](http://SpaceFoundation.org/SpaceCommerce)

## The 35th Annual Space Symposium

Some 10,000 participants are expected for the 35th Space Symposium, held April 8-11, 2019, at The Broadmoor Hotel in Colorado Springs, Colorado. The largest annual assembly of the space community, this premier event will feature spectacular exhibits, forums, panels, presentations, speeches, special events, and ample opportunity to hear from and network with the space community’s most influential leaders and emerging pioneers.



### Early confirmed speakers and participants include:

- Elżbieta Bieńkowska, European Commissioner
- James Bridenstine, NASA Administrator
- Prof. Dr. Pascale Ehrenfreund, Chair of the Executive Board, German Aerospace Center (DLR)
- Gen. John Hyten, Commander, U.S. Strategic Command
- Monica Palko, Vice President and General Counsel, Lockheed Martin Space
- Wilbur Ross, U.S. Secretary of Commerce
- Kathy Warden, CEO and President, Northrop Grumman Corporation
- Heather Wilson, U.S. Secretary of the Air Force
- Dr. Johann-Dietrich Wörner, Director General, European Space Agency

## Introducing the Quarterly Space Report

For just over a decade, the Space Foundation’s The Space Report (TSR) has been a comprehensive guide to what is happening in the global space community. Given the rapid growth and expansion of the space community, the annual TSR will be evolving into a quarterly report to provide more timely insight and awareness. The new quarterly TSR will keep pace with this fast-moving community and where it is going while also continuing to tell the story of the space economy around the world.

## Engaging the Next Generation of Space Visionaries

The Space Foundation’s International Student Art Contest inspires young people to share their vision through individual artwork and imagine the exciting adventures of space. The ninth annual contest is funded through a generous donation from Firefly Aerospace. Thanks to Firefly, 3,908 students from 61 countries are competing in 2019 for the 25 available awards, answering through art, “Where Will Your Spaceship Take You?”



## Reaching the Global Space Community in 2019

The New Space Economy European ExpoForum in Rome in December 2019 marks the first time the Foundation has supported a space conference abroad in more than 15 years. In Asia, the Foundation will join a number of international, non-governmental organizations to co-host a October 2019 Space Applications for Medical Purposes Forum in Hainan, China. Foundation leaders will also speak at the Prague Security Studies Institute’s 5th Space Security Conference in Prague, and our education team will be globally engaged on activities directed to students and teachers.



## New Outreach Programs in 2019

To highlight the diversity and exciting pursuits of the entire space community, each month the Space Foundation will showcase a theme to highlight the history, talent, breakthroughs, and achievements happening on Earth and beyond. In collaboration with its partners and worldwide network, the Space Foundation will explore the emerging promise and opportunity unfolding in countless ways in each of these monthly themes.

<b>January</b>	Human Spaceflight
<b>February</b>	Astronomy
<b>March</b>	Mars
<b>April</b>	Earth Science
<b>May</b>	New Frontier Explorers
<b>June</b>	Space Science
<b>July</b>	Moon
<b>August</b>	Robotics & Next Gen Tools
<b>September</b>	STEM Education & Careers
<b>October</b>	International
<b>November</b>	Space Business
<b>December</b>	Year in Review

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