

FUTURE OF FLIGHT FOUNDATION



2012 ANNUAL REPORT

PARTNERS IN INNOVATION



Members of our Partners In Innovation Corporate Sponsorship Program receive special recognition on our lobby donor wall, at events and on our website throughout the year while supporting FOFF programs with gifts ranging from \$2,500 to more than \$100,000.

Thank you to our 2012 Partners In Innovation:



- The Boeing Company
- Alcoa Foundation
- NASA
- Panasonic Avionics Corporation
- Snohomish County PUD
- Bonneville Environmental Foundation
- SOGERMA, an EADS Company
- Snohomish County
- Department of Energy
- Aero Law Group, PLLC
- Royal Air Force Museum
- Rolls-Royce
- Northwest Windpower
- PRV Aerospace
- PPG Aerospace
- ABC Special Event Rentals by CORT
- UTC Aerospace
- Staybridge Suites
- TASS Inc.
- Umbra Group
- Northwest Duty Free Stores, Inc.
- Pacific Metallurgical, Inc.
- Asiana Airlines
- ASKO Processing, Inc.
- Alaska Airlines

ABOUT THE FOUNDATION



Barry Smith, Executive Director of the Future of Flight Foundation.

The Future of Flight Foundation is a non-profit 501 (c)(3) corporation. The Foundation provides interactive, experiential learning for all ages through its education programs and exhibits while encouraging interest in science, technology, engineering, math and aviation. The Foundation operates the Future of Flight Aviation Center through an operator's agreement with Snohomish County and The Boeing Company.

OUR VISION

To be the leading center of learning and innovation for science, technology and aviation.

OUR MISSION

We inspire lifelong learning and innovation in science, technology, engineering and math through engaging exhibits and programs.



Rolls-Royce exhibit in the FOF Gallery.

2012 was another record-breaking year for the Future of Flight Foundation (FOFF) and we couldn't have done it without your support! Thank you for all you do to assist us in making a difference in so many lives.

Our STEM Education program, "Flights of Innovation," had record participants with over 530 students and teachers learning the importance of Science, Technology, Engineering and Math careers. Attendance records were broken with over 225,728 paying visitors at the gate and over 300,000 visitors overall including attendees using our meeting rooms or participating in our many special events. A record was set for the implementation of new exhibits including: the wind and solar energy demonstrations, Biofuels-The Jet Fuel of the Future, and the Magic Planet. Earned and contributed income exceeded all previous records for funding from a comprehensive and diverse mix of government, foundations, businesses, corporations and individual donors.

I expect continued growth in 2013 and look forward to the challenges this new year brings. I know our dedicated staff, volunteers and committed Board of Directors will continue to energetically focus on the fundamental education, exhibits and operations that have ensured our recent years' successes.

A handwritten signature in black ink that reads "Barry Smith".

Barry Smith
Executive Director



SEE WHAT'S NEW AT OUR AVIATION CENTER

Exhibits from Concept to Reality, 2012 Highlights:



THE MAGIC PLANET

This five-foot diameter digital video globe wows visitors by turning a variety of scientific and geographic data into an interactive atlas. The Magic Planet provides a true multimedia experience, displaying live streaming media,

existing exhibits from premiere museums and government organizations, and real-time global weather and flight patterns. Funding provided by the Alcoa Foundation, The Boeing Company and Future of Flight Foundation donors.



WIND POWER

DEMONSTRATION PROJECT

Our working wind ball turbine and accompanying exhibit allow visitors to compare wind power with solar while illustrating how this natural force can be applied to meet modern needs.

Wind turbine funding provided by the Department of Energy/ Snohomish County Energy Efficiency and Conservation Block Grant. Wind ball model and exhibit funded by Northwest Windpower and Future of Flight Foundation donors.



JET FUEL OF THE FUTURE

Visitors learn about the research being done to create different types of biofuels and the importance of renewable fuels to the future of our economy and environment. Funded in part by Washington State University

(WSU) with displays and videos created by WSU students.



LARGE AERIAL MAP

ON LOBBY FLOOR

Visitors enjoy viewing a large aerial map of Paine Field Airport and the surrounding area including other attractions around the Airport and the route taken when on the Boeing

Tour. Donated by Future of Flight Foundation donors.

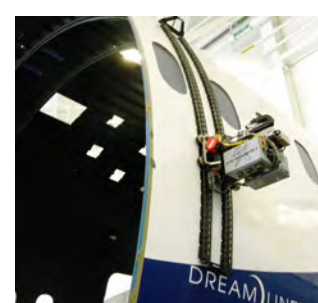


SOLAR ENERGY

DEMONSTRATION PROJECT

Visitors tour our rooftop solar module installation and the companion solar exhibit while learning how the sun is being harnessed for a variety of applications, including solar

airplanes and the solar exhibit itself. Solar module and meter funded by the Planet Power Program of Snohomish County PUD and Bonneville Environmental Foundation. Solar exhibit funded by Future of Flight Foundation donors.



FLEX TRACK

DRILLING SYSTEM

Visitors get a close-up look at this portable, light weight, laser-guided CNC drill that drills precise holes as it travels along the curved surface of an airframe. The display depicts

how flexible rails and vacuum cups enable the robotic drill to perfectly track and bore the contours of a 787 fuselage. Drill on loan from Electroimpact, Inc.



EXHIBIT REVITALIZATION

A total of 38 exhibit viewing monitors have been replaced with new Panasonic screens, updating the look and resolution of our exhibit presentations. Monitors provided by Panasonic Avionics.



EADS EVOLYS

BUSINESS CLASS SEAT

Learn the ergonomics and technology of aircraft seating by visiting the EADS EVOLYS Business Class seat used on Boeing 777 models. Donated by SOGERMA, an EADS Company.

EDUCATING THE NEXT GENERATION

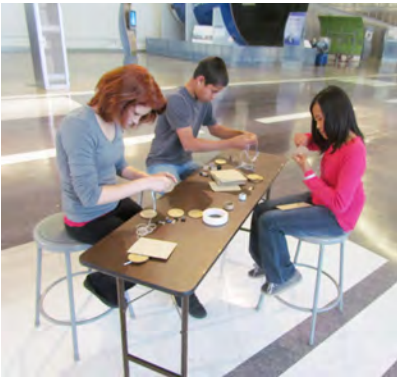
“Flights of Innovation” STEM Education Program

“Flights of Innovation” Science, Technology, Engineering and Math (STEM) education program bridges formal and informal learning encouraging students to develop new ideas, insights and knowledge. Curriculum is scenario-based; aligns with national, state and local school district requirements; and supplements essential learning skills and performance standards for grades 5-8. Special experiences are provided for grades 9-12.



2012 PROGRAM HIGHLIGHTS:

- Increased participation for 2011-2012 school year by 12% to 530 students.



- Enrolled four additional school districts: Snohomish, Granite Falls, South Whidbey and Monroe.
- Provided “Just in Time” Professional Development to teachers in Inquiry and Socratic question methods embedded in cross-content curriculum areas.

The “Flights of Innovation” project enables students to get a glimpse of different careers early in 8th grade so they become aware of the tools/training needed to pursue that career in high school and beyond.



Students learn about working in various groups, completing tasks and working with deadlines—skills they need for the real world. The connection

to science is key in helping them understand how it helps the world connect in global ways to educate, collaborate and solve both local and universal challenges.

Through writing resumes and job descriptions, most students learned about and became interested in careers they had never encountered before. Students with limited exposure to the greater community who have not been exposed to the wide variety of career possibilities are finding out that there are many options open to them if they keep up the educational momentum to strive and succeed in high school and beyond. Some students also found that the previous limitations they anticipated in their future are being conquered and that their dream job may not be created yet, but will be there in a few years.

Sofia Zucca, NBCT
8th Grade Science Teacher
Voyager Middle School

SCHOOLS SERVED TO DATE

Park Place Middle School (Monroe)
Voyager Middle School (Mukilteo)
Fairmount Elementary School (Mukilteo)
Langley Middle School (South Whidbey)
Cascade K-8 Community School (Shoreline)
Granite Falls Middle School (Granite Falls)
Valley View Middle School (Snohomish)
Madrona K-8 School (Edmonds)
Totem Middle School (Marysville)
10th Street School (Marysville)
North Middle (Everett)



“Discovery consists of seeing what everybody has seen and thinking what nobody has thought.”

-Albert von Szent-Gyorgyi

REACHING OUT TO OUR COMMUNITY

1. The Future of Flight Foundation Board of Directors hosted our annual Gala & Auction, "Adventures of Amelia," raising more than \$165,000 for our exhibits and education programs. Thank you event sponsors: The Boeing Company, Aero Law Group, PPG Aerospace, UTC Aerospace, TASS Inc., The Umbra Group, Northwest Duty Free Stores, Inc., PRV Aerospace, Snohomish County, ABC Special Event Rentals by CORT and Staybridge Suites.

2. "It's All About the Future" Community Speaker Series showcased six speakers at the Aviation Center. Topics included innovation and aviation such as: "Environmentally Progressive Aircraft Design" - Mithra Sankrithi, Product Development Chief - The Boeing Company; "Future of Inflight Connectivity" - Richard Nordstrom, Managing Director, North America OnAir; and "Living on the Leading Edge" - Capt. Suzanna Darcy-Hennemann, Chief Pilot, Director of Training and Flight Services - Boeing Commercial Airplanes.

3. Family STEM Night was attended by over 350 students and their parents. Twelve (12) collaborating organizations provided Science, Technology, Engineering and Math based learning activities and provided STEM career information to interested families. Thank you event sponsors: Axia Home Loans, The Everett Clinic and Snohomish County.

4. "Celebrate the Earth," a free family-friendly event on Earth Day, began with the grand opening of new interactive wind and solar energy exhibits. Kids visited tables with earth-friendly activities using recycled products. Local businesses provided information about environmental services. Dr. Thomas Edwards, Director of Aeronautics, NASA Ames Research Center talked about environmentally responsible aviation. Thank you event sponsors: Aircraft Fleet Recycling Association (AFRA), All Battery Sales and Service, Northwest Duty Free Stores, Inc., NASA, Puget Sound Energy, Alaska Airlines, Snohomish County and the City of Mukilteo.

5. Aviation Geek Fest 2012 was a big success, attracting 110 aviation enthusiasts from around the globe. Geeks had the opportunity to check out the Future of Flight's gallery exhibits before participating in a tour of the Boeing factory floor, Boeing Dreamliner Gallery, Paine Field Fire Department and attending a presentation on "How to Become an Airline Pilot" with Regal Air.

6. A grand opening event free to the public was held for the "Giving Wings to the World" visiting photography exhibit by local photographer Bill Stafford. The photos in this exhibit represented many of the countries that bring visitors to the Future of Flight and also countries where locally produced aircraft are flown. This collection was previously exhibited at the Museum of History and Industry in Seattle, Washington and the Reykjavik Cultural Festival in Iceland.

7. The Future of Flight Foundation hosted a special tour of the Puget Sound region and presentation by Dr. Soyeon Yi, Korea's first astronaut. Dr. Yi spoke about her journey in becoming the first Korean astronaut and her trip into space. The special tour included presentations at Kamiak and Mariner High Schools, Everett Community College, University of Washington, Seattle Children's Hospital, Microsoft, Korean Chamber of Commerce and various community groups. Thank you event sponsors: Asiana Airlines, Williams Kastner, Consul General of Korea, Mayflower Park Hotel, and Trade Development Alliance of Greater Seattle.



1. Aerialist Crystalle performed her "Adagio for Amelia" during the 2012 Gala.



2. Speaker Mithra Sankrithi with Barry Smith, FOFF Executive Director, and Dave Waggoner, Airport Director.



3. Family STEM Night attendee learns the importance of science by looking through a microscope.



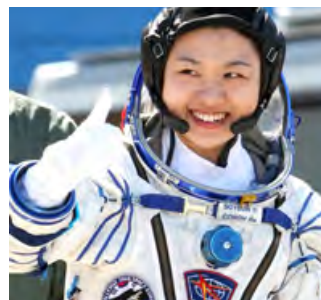
4. Earth Day attendees visit with students from Granite Falls High School's Eco Car Program.



5. Aviation Geek Fest attendees were treated to an up-close opportunity to view airplanes at the FOF Aviation Center.



6. In April 2012, a reception was held for the opening of the "Giving Wings to the World" photography exhibit.



7. Dr. Soyeon Yi, Korea's first astronaut, on launch day.



8. Visitors learn about biofuels at our "Jet Fuel of the Future" exhibit.

8. The new Biofuel Exhibit "Jet Fuel of the Future" was opened with a ribbon cutting event featuring speaker Dr. Elson Floyd, President of WSU. Over 200 dignitaries, business leaders and educators attended. Washington State University students provided exhibit materials and labor needed to update this biofuel exhibit. Thank you WSU!

CONNECTING STUDENTS AROUND THE WORLD

International Aerospace Intern Program

The Future of Flight Foundation facilitates an educational intern experience for international university students. For four weeks each summer,

international students participate in an intensive aerospace program that includes hands-on materials science projects and access to leading aviation experts and companies. Diverse cultural experiences and travel within the U.S. to unique aerospace venues help provide students with a once-in-a-lifetime experience.



Thayna and Leandro present their team's proposal for the FOF biofuels exhibit.

2012 PROGRAM HIGHLIGHTS

•“Science Without Borders 2012” represented 12 universities from around the world, including 14 third-year aeronautical engineering students from Brazil and one avionics student from Australia. Funding provided by The Boeing Company and Queensland University of Technology. Participation increased over 2011 by 400% from 3 to 15 students.



Students celebrate at Future of Flight before departing for Pennsylvania and Washington, D.C.

•Learning included creating carbon fiber items at Edmonds Community College and GloCal Seattle and designing potential additions to the “Jet Fuel of the Future” exhibit in the Future of Flight Gallery.

•Students gained one-of-a-kind cultural experiences: home stays with families, 4th of July

in Washington, D.C., a visit to the National Air and Space Museum, Steven F. Udvar-Hazy Center and meetings with the State Department and the Brazil Ambassador to the US.

FUTURE OF FLIGHT FOUNDATION STAFF



LEADERSHIP & ASSISTANTS

Barry Smith - Executive Director

Ulla Johnson - Executive Assistant

Peter Bro - Facility Director

Mary Brueggeman - Development Director

Kendall Shawhan - Development Assistant

Bob Cooper - Chief Financial Officer

Amanda Goertz - Education Director

Sandy Ward - Marketing Director

Toni Olson - Administrative Assistant

Ann Averill - Intern Exchange Coordinator

Ed Kaplanian - Senior Projects & Acquisitions Manager

Melody Meyers - Finance Manager

Ashley Rolph - Events Coordinator

Christine Scott - Events Manager

TICKETING & EVENT STAFF

Yelena Bagnovets - Custodian

Donna Beaudry - Ticketing

Ryan Bullock - Ticketing/Tech

Juan Chavez - Custodian

Brynn Eden - Ticketing

Jacob Mennie - Ticketing

Zack Mennie - Tech

Eric Moskvin - Ticketing

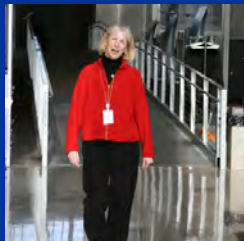
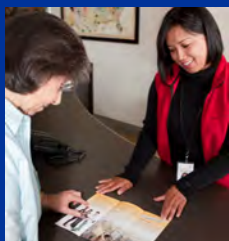
Kevin Moskvin - Ticketing

Adam Natal - Ticketing/Tech

Kyle Opstad - Ticketing/Tech

Jakob Pruss - Custodian/Tech

Janessa Rosick - Ticketing



VOLUNTEERS

Over 40 volunteers worked tirelessly at our Visitor Information Desk and many more helped with our community and fundraising events! We thank our volunteers and appreciate all they do - we couldn't do it without them!

To learn more about the Future of Flight Foundation and our programs, please contact foundation@futureofflight.org or call 425.438.8100 x230.

WWW.FUTUREOFFLIGHTFOUNDATION.ORG



FUTURE OF FLIGHT FOUNDATION 2012 BOARD OF DIRECTORS

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