



**April 2008
Newsletter**

What Is the Future Like for Aircraft Design?

D. David Anderson

Director, Airplane Product Development, The Boeing Company



PNW AIAA/SFTE Presentation

Date: Wednesday, April 9, 2008

Location: Azteca
150 112th Ave NE
Bellevue, WA

Time: 6:00 PM Social, no-host bar
6:30 PM Dinner Begins
7:00 PM Lecture Begins

Cost: \$20 AIAA/SFTE & Guests
\$25 Non-Members
\$5 Students
\$5 Educator Associates
\$5 Program Only

Please note a reservation is a commitment to pay.

Reservation Option Via the Section Website

RSVP online at www.pnwaiaa.org or send an e-mail to reservations@pnwaiaa.org. A confirmation e-mail will follow.

PNW AIAA Calendar

April 15, 2008, Tuesday

Lighthouse for the Blind Tour (See Article)
Seattle, WA

April 15-16, 2008, Tuesday to Wednesday

Congressional Visits Day
Washington D.C.

April 19, 2008, Saturday, 2:00 pm

American Fighter Aces Panel

Join the Museum of Flight for a fascinating panel sponsored by the Northwest Chapter Friends of the American Fighter Aces Association. Invited guests include: World War II triple fighter ace Bud Anderson, Col. Richard Hewitt, Wayne Colema and Col. Joe Peterburs. Autograph session to follow the program.

Museum of Flight
Seattle, WA

April 25-26, Friday to Saturday

Engineering Open House
University of Washington
Seattle, WA

April 26, Saturday

1942 Stearman Biplane N1315N Fly-In

Over 8500 biplanes were built by Stearman, which became a division of Boeing in 1934. This particular Stearman biplane is the star of the DVD movie, *The Great Circle Air Safari*, which will be showing in the Allen Theater during the weekend.

Museum of Flight
Seattle, WA

April 26-27, Saturday to Sunday, 2:00 pm

The Great Circle Air Safari: A Documentary Film

Experience an exhilarating flight through the vast Australian Outback with nine vintage aircraft. Stunning high definition footage by Oscar winning director of photography Eric Thiermann coupled with the story of two pilots on a quest of discovery yields a compelling film.

Museum of Flight
Seattle, WA

May 13, Thursday, 6:00 pm

PSEC Order of the Engineer

See article for more information.

University of Washington Waterfront Activity Center
Seattle, WA

May 14, Wednesday, 6:30 pm

May PNW AIAA Dinner Meeting

Insitu Unmanned Aerial Vehicles by Steve Siwa
Seattle, WA

May 17, Saturday

General Aviation Day
Paine Field
Mukilteo, WA

Educator Astronomy Workshop

By Kareen Borders

AIAA in conjunction with the Spitzer Space Telescope and the Peninsula School District, sponsored a K-8 teacher workshop on March 8th in Gig Harbor, Washington. Twenty-two teachers came together on a Saturday for six hours to learn about astronomy-based activities and lessons that they could immediately incorporate into their classrooms. All lessons were aligned with National Science & Math standards along with Washington State Grade Level Expectations. Peninsula School District also provided a stipend to Peninsula teachers as well as 5.5 clock hours for all participants.



The NASA team consists of team lead Kareen Borders, Cindy Knisely, Ron Stark, and Thom Worlund. This team traveled to Kona last summer and engaged in an intense week of astronomy-based STEM training

(see previous article in *Aerospace America*). The summer training, along with Kareen's participation and training in the Spitzer Space Telescope Teacher program, and provided the scaffolding for the workshop.

The overarching theme, "What do we know about the Universe and how do we know it?" brought together a myriad of lessons. Participants engaged in an inquiry-driven mapping exercise, learned about the history of telescopes, constructed a basic telescope, tried out infrared sensing equipment (and listened to light), learned about the electromagnetic spectrum, constructed spectrometers, learned about the infrared telescope Spitzer, watched (and received copies of) Dr. Michelle Thaller's video "More Than the Eyes Can See", participated in a fire department activity complete with an infrared camera, used graphing and angle measurements to construct a model of the Milky Way, built and launched stomp rockets, learned how to incorporate STEM into literacy-based activities, learned about the scale of the universe through the computer program Celestia, made new professional connections, and went home with incredible resources.

Participants left wanting more.....several teachers asked for follow-up workshops. Evaluation comments included, "I have been teaching for 27 years and this is the best and most meaningful professional development I have ever participated in" to "Thank you for including activities for primary teachers" to "I will use these activities and lessons this week".



The NASA Explorer School Team plans on continuing their own professional development and also plans to continue to offer teacher workshops.

On a separate note, Kareen learned that her Spitzer team's proposal, led by Dr. Steve Howell, was accepted for observing



time on the Spitzer Space Telescope. The team will be using the time to analyze accretion disks of cataclysmic variable stars. This team, led by Dr. Howell, consists of seven teachers from across the country.



Seattle Lighthouse Tour

The Lighthouse for the Blind, Inc. a company that makes aerospace parts utilizing employees with disabilities, has offered a special tour to the PNW Section. The tour is scheduled for Tuesday, April 15 (Tax Day) from 1:00 pm to 4:00 pm. Please consider working this tour into your schedule.

The Seattle Lighthouse is a private, not-for-profit agency providing employment, support, and training opportunities for people who are blind, Deaf-Blind, and blind with other disabilities. The Lighthouse has provided employment and support to blind people in our community since 1918.

To learn more about Seattle Lighthouse, visit www.seattlighthouse.org. The Seattle P-I article is at http://seattlepi.nwsource.com/business/342857_lighthouse10.html.

The Order of the Engineer

By Kelly Griswald

The Puget Sound Engineering Council (PSEC) is proud to sponsor "The Order of the Engineer" to qualifying students and working engineers in the Puget Sound area.



The Order of the Engineer was initiated in the United States in 1970 to foster a spirit of pride and responsibility in the engineering profession, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer. The Obligation of the Order of the Engineer is similar to the Canadian "Ritual of the Calling of an Engineer" initiated there in 1926.

Simply stated, The Order of the Engineer is a ring ceremony in which engineers meeting the solemn obligation take an oath called the "Obligation of an Engineer" to promise to uphold the high standards of the engineering profession. They are also given a stainless steel ring to be worn on the fifth finger

of the working hand identifying their profession and obligation to other engineers and the public.

Any engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. Students enrolled in ABET-accredited engineering degree programs are eligible if they are within two academic terms of graduation.

PSEC will hold its first ring ceremony for The Order of the Engineer on Tuesday, May 13th at the University of Washington's Waterfront Activity Center at 6 pm. Anyone who is interested in participating should sign up online at www.acteva.com/booking.cfm?bevaID=156117. The cost of the event (including the cost of the ring) is \$12 for students and \$17 for working engineers. There will be an opportunity to network with other engineers immediately following the ceremony. Refreshments will be served.

The deadline to register is Thursday, April 24th.

If you have any questions, please feel free to contact the event organizer, Kelly Griswold at Kelly.Griswold@swe.org.

Washington Aerospace Scholars Summer Residencies Mentors



Washington Aerospace Scholars

(WAS) is seeking engineering professionals interested in working with high school juniors during a summer residency hosted by the Museum of Flight. See the attached flyer for more information.

AIAA Custom Briefings

Do you want to keep up with aerospace activities on a daily basis without having to filter through non-aerospace articles or multiple sources? As an AIAA member, you can sign up for this free service at <http://aiaa.custombriefings.com>.

AIAA Daily Launch is e-mailed each weekday morning exclusively to members of AIAA. Helping you stay well-informed of breaking news of interest to AIAA members is AIAA Daily Launch's mission. Must-read areas of coverage include: Aviation and Aeronautics, Space and Astronautics, and Legislation and Policy. AIAA Daily Launch is produced by U.S. News Custom Briefings, an affiliate of U.S. News & World Report.

PNW Technical Symposium

The second PNW Technical Symposium will be held this fall in the Seattle area. 2007's inaugural event featured 30 presentations of local research. Speakers included Dr. Dianne Chong and Joe Sutter.

Volunteers and presenters are being sought for this year's symposium. For more information or to volunteer, contact yptechnsymposium@pnwaiaa.org.

A PUBLICATION OF THE PACIFIC NORTHWEST SECTION OF AIAA

Address Correction

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