



Newsletter

Volume 35, Number 2, October 2004

Celebrating 75 Years of the University of Washington Aeronautics and Astronautics

Please join us this month as UW Aeronautics & Astronautics Department Chairman Adam Bruckner, Professor Scott Eberhardt and recent graduate Jon Lee present an engaging look at the history of the University of Washington's Department of Aeronautics and Astronautics.



The origin of the Department of Aeronautics and Astronautics can be traced back to 1916, when William E. Boeing, a Pacific Northwest timber magnate, joined forces with naval engineer Conrad Westervelt to form an airplane company in Seattle. They recruited a number of their engineering staff from University of Washington graduates and, with an eye to the future, donated a wind tunnel to the UW in 1917 and established a chair in aeronautics. In 1928, the Daniel Guggenheim Fund for the Promotion of Aeronautics granted funds for the construction of an aeronautics building, one of seven such grants awarded nationwide. The department was officially founded on October 5, 1929, with four faculty members, and the Daniel Guggenheim Hall of Aeronautics was dedicated on April 11, 1930. The first baccalaureate degrees in aeronautical engineering were awarded that same year. Five years later the Boeing Company, the Washington State Legislature, and the Works Progress Administration allocated funds for the construction of the Kirsten Wind Tunnel, and in March 1938 it became operational. This facility quickly developed a reputation as one of the premier low-speed

wind tunnels in the United States, a status it continues to enjoy to this day.

In recognition of the increased technical depth and breadth required in aeronautics, a Master of Science program was initiated in 1946, a two-year Master of Engineering program in 1951, and a PhD program in 1959. In 1961, in response to the emerging field of space exploration, the name of the department was changed to Aeronautics and Astronautics, and a period of rapid growth ensued. With funding from NASA, the Aerospace and Engineering Research Building (AERB) was constructed in 1969. Approximately half of this facility has been occupied by the department. The most recent physical expansion occurred in 1992, when the plasma dynamics group opened an off-campus research facility in Redmond, known as the Redmond Plasma Physics Laboratory (RPPL). In 1998 a new, practice-oriented Master of Aerospace Engineering degree program replaced the former Master of Engineering program.

Professor Bruckner graduated from McGill University in Montreal, Canada in 1966 with a B. Engr. in Honors Mechanical Engineering and was a recipient of the British Association Medal. He received his Ph.D. in Aerospace and Mechanical Sciences in 1972 from Princeton University and joined the University of Washington as a Research Associate in the Aerospace and Energetics Research Program the same year. He has been department Chair since July 1998.

Professor Eberhardt earned his undergraduate degree at the Massachusetts Institute of Technology in 1980 in the field of Aeronautics and Astronautics, followed by a Master's Degree in the same field and institution in 1981. He then continued his studies at Stanford University, where he was awarded his Ph.D. in 1985 in Aeronautics and Astronautics. He joined the UW Aeronautics and Astronautics department in 1986.

Jon Lee received his Bachelor's and Master's degrees in 2002 and 2004, respectively, from the UW Aeronautics and Astronautics department. He is currently employed at Boeing, where he has been assigned to the stability and control group of the 7E7 program.

Joint AIAA/SFTE Lecture - Dinner Meeting

Date: **Tuesday, October 19, 2004**
Place: **Old Spaghetti Factory** 2801 Elliott Ave, Seattle, WA 98121
Time: 6:00 PM Social, No-Host Bar
6:30 PM Dinner – (lasagna or fettuccine alfredo)
7:00 PM Program – “75 Years of the UW A&A Dept.”
Price: **\$15** AIAA/SFTE Members and Guests
\$18 Non-Members
\$5 Students and Educator Associates
Program Only: **\$5** (Free for persons 17 and under)

PLEASE NOTE: NEW SIGNUP OPTIONS VIA OUR NEW WEBSITE

AIAA Sign up online at <http://www.pnwaiaa.org>. -> **Reservations**
or send email to reservations@pnwaiaa.org (incl. meal choice)
You will receive a confirmation email.
or call **David Lednicer** at (425) 643-9090

SFTE **Mike Bartlett** - michael.f.bartlett@boeing.com

*Please make reservations by Friday, October 15th
A reservation is a commitment to pay!*

Section website: <http://www.pnwaiaa.org>
 National website: <http://www.aiaa.org>

Please submit newsletter materials to the editor by the 21st of October for the November Newsletter.

Outstanding Section Awards
 1972-1973
 1977-1978
 1978-1979
 1991-1992
 1993-1994
 1994-1995
 1994-1995

Membership Award
 1997-1998

Young Member Activity Awards
 1990-1991
 1991-1992
 1994-1995
 1995-1996

Section Special Event Awards
 1976-1977
 1977-1987
 1978-1979
 1982-1983
 1987-1988

Career Enhancement Award
 1997-1998

Newsletter Awards
 1994-1995
 1995-1996
 1996-1997

A PUBLICATION OF AIAA THE PACIFIC NORTHWEST SECTION
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Newsletter	Open			
Nominations	Vera Martinovich	02-XJ	425-266-8664	vera.a.martinovich@boeing.com
Museum of Flight Liaison	Open			
Pre-College Outreach	Scott Eberhardt	P.O. Box 352400, UW, Seattle, WA 98195	206-543-6508	scott@aa.washington.edu
Public Policy	Karl D'Ambrosio	5026 18 th Avenue NE, Seattle, WA 98105	253-395-3710	karld@emfcowa.com
Young Professionals	Emmanuel Domingo	2779 NE Liberty, Gresham, OR 97030	206 227-7819	E_domingo@hotmail.com

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