

January 2004



(More Than)

A CENTURY OF FLIGHT IN ST. LOUIS

Featuring:

Dr. Fredrick W. Roos
 Phantom Works, The Boeing Company



One of the foremost events in the St. Louis aeronautical past was the Louisiana Purchase Exposition (popularly known as the 1904 St. Louis World's Fair), which featured a variety of aeronautical demonstrations and competitions. This public display, of developing human flight, was among the first exhibitions anywhere in the world! Over the century, the impact of aeronautics on the growth of the St. Louis area and contributions of St. Louisians to the world of aerospace have been substantial. Inspired by the centennial of powered flight, Dr. Roos' illustrated presentation covers some of the highlights of St. Louis' century-plus of aeronautical history, from the first balloon flights to today's space age!

Dr. Roos is an active lecturer, photographer and historian of both aviation and railroad. He was a cofounder of the Aeronautical History Society of St. Louis and has been involved in the St. Louis Aviation Museum project. Dr. Roos is also a member of the AIAA History Committee and is compiling an illustrated history of St. Louis aviation.

Dr. Roos is Senior Principal Technical Specialist for The Boeing Company conducting research in subsonic and transonic fluid dynamics. He also teaches, as an Adjunct Professor of Mechanical and Aerospace Engineering, at Washington University in St. Louis.

**Wednesday,
 January 14, 2004**

**St. Louis University
 Busch Student Center
 Room 170 (lower level)**

**Social 5:30 - 6:30 pm
 Dinner 6:30 - 7:30 pm
 Presentation 7:30 - 9:00 pm**

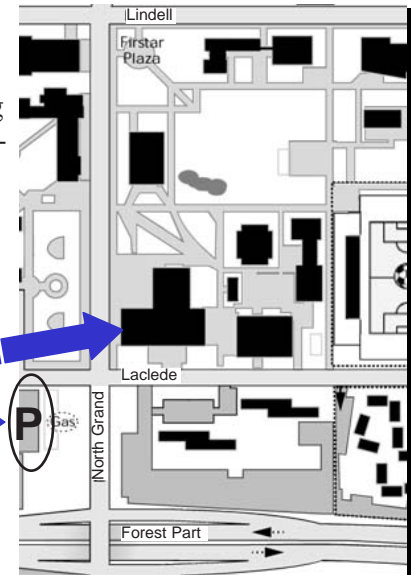
TICKETS

\$20.00 for AIAA Members
 \$23.00 for Non-AIAA Members
 \$10.00 for Students
 \$2.00 Presentation Only

Ticket reservations must be made by Friday, January 9th by calling the ASME Reservations Service at (314) 353-2463
 (Add \$2.00 for tickets purchased after Friday, January 9th and tickets purchased at the door)

MENU

Buffet Dinner:
 Chicken Dijon or
 Vegetable Lasagna
 Dinner Salad
 Au Gratin Potatos
 Green Beans Almandine
 Carrot Cake



The **Busch Student Center** is located at the intersection of Grand and Laclède Ave., East of Grand.

Parking will be available in the Laclède Garage, located at the intersection of Grand and Laclède Ave., West of Grand.

(Free parking vouchers will be distributed upon registration at the event)

29TH ANNUAL ST. LOUIS AND SOUTHERN ILLINOIS SUPER SAFETY SEMINAR

Saturday, January 24, 2004



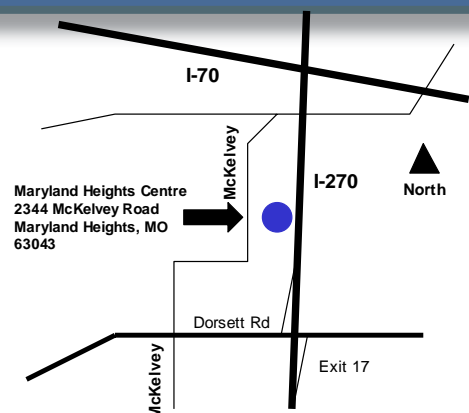
Program

0800-0830	Doors Open - FREE coffee and donuts
0830-0845	Welcome and Awards
0845-0945	Listening to You
0945-1000	Break
1000-1100	Accidents and Fatigue
1100-1200	GPS and Future Technology
1200-1215	Break
1215-1315	No GPS and Old Technology - Airspace and Charts

This program qualifies for the safety meeting requirement of the FAA Pilot Proficiency Program - WINGS. Pilots who complete the additional training with an authorized instructor will qualify for a phase of Wings, and need not accomplish a flight review (BFR). For information about the WINGS Program, contact the St. Louis Flight Standards District Office, 800-322-8876 ext. 4835.

DIRECTIONS:

To get to the Maryland Heights Centre, take I-270 to the Dorsett exit (17). Go west 1/4 mile and turn right on McKelvey. Turn right on Ameling and then left on McKelvey. The Maryland Heights Centre is located next door to the Aquaport.



Membership Upgrade Drive

The St. Louis Section will institute a membership upgrade drive this spring that focuses on member advancement to Senior Member and Associate Fellow level.

Senior Members: Persons who have accomplished or been in charge of important engineering or scientific work, or who have done original work of outstanding merit, or who have otherwise made outstanding contributions to the arts, sciences or technology of aeronautics or astronautics. Nominees must be Senior Members with at least 12 years of professional experience (four years of post-graduate studies may be included, if applicable). Three AIAA member references with the standing of the Associate Fellow, Fellow, or Honorary Fellow are required. Nomination forms are due by April 15; references are due by May 15. Newly elected Associate Fellows receive a certificate and lapel pin. A list of newly elected Associate Fellows is published every January in Aerospace America.

The St. Louis Council will be notifying eligible members and offering assistance with the required nomination forms.

Abbreviated forms are provided in this newsletter edition and can also be found on the AIAA website;

Upgrade to Senior membership status: <http://www.aiaa.org/membership/index.hfm?mem=1>

Upgrade to Associate Fellow membership status: <http://www.aiaa.org/Membership/index.hfm?mem=1>

AIAA Public Policy Issues

This is the third in a series of public policy statements that are presented in the Gateway News to keep the St. Louis membership abreast of AIAA National policy positions.

3. Technology Validation/Verification – Capturing the Value of R&D Investment

Issue: Numerous government agencies apply research and development (R&D) resources to develop technologies to a proof-of-concept level. However, few government agencies invest in carrying technologies through a validation and verification (V&V) program once they have been brought to the proof-of-concept level. Managers of operational system development programs are reluctant to apply technologies that have not already gone through V&V because of the cost and schedule risk to their own program associated with a new technology V&V effort. The result is a technology-readiness gap that often precludes the successful capture of the benefits of R&D investments.

Recommendation: Obligate agencies granted resources for technology development and associated proof-of-concept demonstration investment to allocate a portion of the resources to dedicated V&V of the technologies deemed most promising following proof-of-concept tests. Furthermore, encourage agencies involved in development of operational systems to apply new technologies that have undergone successful V&V if they facilitate meeting the operational system requirements.

St. Louis Section 2003 - 2004 Council Roster

Office	Incumbent	Address	Telephone	Fax	E-Mail
Chairman	Gary White	MC S500-2020	705-2312		gary.p.white@boeing.com
Vice Chairman	Karen Copper	MC S001-6130**	234-5742	233-8916	karen.k.copper@boeing.com
Secretary	Michael Swarhwout	Washington Univ.			mas@me.wustl.edu
Treasurer	Bob Dowgwillo	MC S111-1240**	234-1013		robert.m.dowgwillo@boeing.com
Advisors	David R. Riley	MC S111-1240**	233-6458	233-7338	david.r.riley@boeing.com
	Dave Peters	Washington Univ.			dap@mecf.wustl.edu
	Larry Brase	MC S064-1092**	234-4907		lawrence.o.braser-jr@boeing.com
	John Mohr		567-3398		jlmohr@aol.com
Region V Rep	Michael S. McCoy	MC S064-2233**	233-0524	234-5125	michael.s.mccoy@boeing.com
Office	Incumbent	Address	Telephone	Fax	E-Mail
Arrangements	Chris Alexander	Midcoast Av.	618-646-8000	618-646-8851	calexander@midcoast-aviation.com
Attendance	Douglas Olson	Bldg 6770	469-4180		olsondr@us.ibm.com
Education	Michael Swarhwout	Washington Univ.			mas@me.wustl.edu
Education Historian	Frederick W. Roos	MC S111-1240**	233-2530		frederick.w.roos@boeing.com
Honors & Awards	Walt Reschke	MC S064-3449**	777-4038		walter.j.reschke-jr@boeing.com
Membership	Peter Y. Cheng	MC S064-3210	777-3157		Peter.y.cheng@boeing.com
Newsletter	David E. Morgan	MC S106-7250**	234-1919		david.e.morgan@boeing.com
Pilot Education	Jeff Larrick	MC S102-2272**	232-3455		jeffrey.c.larrick@boeing.com
Programs	Karen Copper	MC S001-6130**	234-5742	233-8916	karen.k.copper@boeing.com
Public Policy	Mark Holly	MC S270-2201**	232-1405		mark.k.holly@boeing.com
Publicity-Internal	Carrie E. Kniker	MC S270-1110**	232-4631		carrie.e.kniker@boeing.com
Services Projects	Tom Mroczkowski	MC S064-2263	232-7041		thomas.j.mroczkowski@boeing.com
Webmaster	John Donigan	MC S064-1411**	234-4103		jonigan@swbell.net
Young Members	David J. Debrestian	MC S111-1240**	232-9538		david.j.debrestian@boeing.com
Young Professional Awards	Dwayne D. Car	MC S064-2263**	232-7103		dwayne.d.car@boeing.com
Strategic Planning	Larry Brase	MC S270-3404**	234-4907		lawrence.o.braser-jr@boeing.com

** Boeing Address: The Boeing Company, P.O. Box 516, St. Louis, MO 63166



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2003 – 2004 St. Louis Section Officers and Council Members

January 2004

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Gary White

Vice Chairperson

Karen Copper

Secretary

Michael Swartwout

Treasurer

Bob Dowgwillo

Advisors

Dave Riley

Dave Peters

Larry Brase

John Mohr



New address?? Forward newsletter address corrections to; David E. Morgan, Boeing m/c
S106-7250, 314-234-1919, david.e.morgan@boeing.com

AIAA FUTURE EVENTS



More Than
**A CENTURY
OF FLIGHT IN
ST. LOUIS**

Featuring:

Fred Roos

Wednesday, 14 January 2004
5:30-9 PM

St. Louis University -Busch Student Ctr.



**AVIATION
SAFETY
SEMINAR**

Saturday, 24 January 2004
8:00 am - 1:00 pm

Maryland Heights Centre