

Gateway News



American Institute of Aeronautics and Astronautics, St. Louis Section

<http://www.aiaa.org>

<http://www.me.wustl.edu/ME/orgs/aiaast/>

INSIDE THE SECTION

FEBRUARY 2001

CHAIRPERSON'S REMARKS

Don't forget to vote in the AIAA National Elections. The ballots will be mailed with the February Aerospace America magazine.

Next month, the St. Louis Section will begin the formal nomination process for Section Officers. Candidates are needed for Vice Chairman, Secretary, Treasurer, and Advisory Committee. If you would like to run for office or nominate a fellow member, please contact one of the current officers listed in this newsletter. We promise to make the ballots easy to understand, and we will guarantee that each vote will be counted.

AIAA's Fifth Annual Congressional Visits Day will be held 21-22 March 2001 in Washington, D.C. Thanks to John Donovan and Ned Koprowski who will be representing the St. Louis Section.

Congratulations to James F. Albaugh and David O. Swain of The Boeing Company and

Donald Kozlowski of VisionAire Corporation on their selection as AIAA Fellows. The AIAA will honor these outstanding members of the aerospace industry this spring at the 2001 Global Air & Space International Business Forum and Exhibition on 8 May 2001.

Historically, Fellow selection is limited to candidates demonstrating strong potential for leadership and distinguishing themselves in the field of aerospace. For every 1000 voting members of the Institute, one Fellow is selected. Thirty Fellows were selected for 2001.

Also, congratulations to Matthew Oser, the recipient of our second Young Professional Award this year. The award was presented at the January Dinner Meeting in recognition of excellent technical contributions in the field of computational fluid dynamics within The Boeing Company - St. Louis.

Larry Brase



The AIAA St. Louis Section's Dinner Meeting, February 22 at the Thompson Center, will feature Mr. Jackie Jackson, Chief Pilot, Production Test with Boeing. A graduate of Purdue University and the Navy Test Pilot School, Mr. Jackson began his career as a Marine aviator. He flew more than 600 combat missions in Vietnam, mostly in helicopters, and was shot down twice. After flying a record 5,000 plus hours in the AV-8B Harrier, Mr. Jackson is uniquely qualified to speak about vertical and short takeoff or landing (VSTOL) technology.

Social 5:00 - 6:00 PM
Dinner 6:00 - 7:00 PM
Program 7:00 - 9:00 PM

Ticket Sellers:

John Mohr 567-3398
Public and Retirees
Mike Swartwout . 935-6077
Washington University
Kay Bopp 977-8240
Parks College of
St. Louis University
Fred Nelson 341-4613
University of Missouri-Rolla

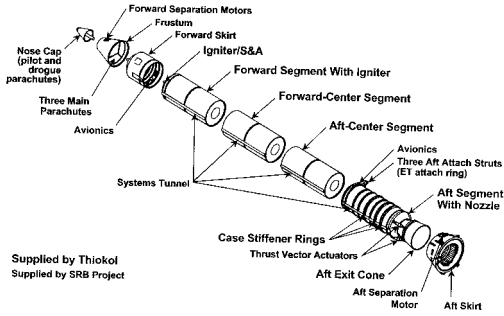
Ticket Prices:

Members: \$13.00
Non-members: . . \$16.00
Students \$10.00
Presentation only . \$1.00
Presentation only
at the door \$2.00

JANUARY DINNER MEETING

Where were you January 26th, 1986?, that day the Space Shuttle Challenger exploded in the cool Florida sky. Mr. Allen McDonald provided the membership with a behind the scenes insight to this national tragedy and following investigation. Mr. McDonald reviewed the Space Transportation System, Shuttle, and especially the booster. Morton Thiokol, of which Mr. McDonald was the chief representative at Kennedy Space Center, manufactures these gigantic boosters in sections. The 12 foot diameter sections are assembled at KSC, then attached to the Space Shuttle external tank. Sections are joined with large O-rings to prevent hot gas leakage.

Space Shuttle Solid Rocket Booster



Part two addressed prelaunch conditions at KSC, the accident, and videos. McDonald gave a first person account of Morton Thiokol prelaunch discussions, recommendations, and final NASA launch decisions.

Finally, McDonald described the post-accident investigation, his media interaction, and encounters with Congress. Booster joint improvements were highlighted along with current Shuttle performance.

It was noted that, of the other engineers present, no one came forward to prevent the prelaunch circumstances. Mr. McDonald closed with, "Be true to yourself and be honest.."



YOUNG PROFESSIONAL AWARD

Matt Oser, of the Boeing aerodynamics department, received the AIAA Young Professional Award at the January dinner meeting. Matt was cited for his innovative contributions to the development and integration of an unstructured grid based, store-separation analysis system. He devised the standard practices that are now the foundation of store separation flowfield simulation. Matt's contributions have been applied to JSF, UCAV, X-37, Canard Rotor Wing, and others. Congratulations Matt!



Matt Oser receiving the AIAA Young Professional Award from Bob Dowgillo



Matt with his wife Danielle

PILOT SAFETY CLINIC

The annual Pilot Safety Clinic took place, January 20, in the Boeing building 33 cafeteria, with approximately 350 area pilots. Topics covered were: runway incursion prevention, shifting FAA funds to airline support, fractional jets (business jets in old terms), and aeronautical charts. A new Sport Pilot license is in work requiring; limited passenger carriage, no medical, and some area restrictions.





**American Institute of Aeronautics and Astronautics
St. Louis Section**

**Nominations Solicited
for 2001 Section Awards**

The St. Louis Section AIAA strives to recognize significant contributions. In that regard, we need your recommendations on worthy individuals for St. Louis Section awards. A few moments spent nominating an individual or team will benefit those who have helped advance the aerospace profession. Nominations are being accepted for the following awards to be presented at the annual Honors and Awards Dinner, May 2001. The awards reflect a broad range of recognition.

Technical Contribution: *In recognition of an outstanding contribution to the advancement of the aerospace sciences in a technical discipline by a section member or team of members.*

Technical Management: *In recognition of an outstanding accomplishment in technical management by a section member or team of members.*

Section Service: *In recognition of outstanding contributions to Section Activities by a member.*

Civil Awards: *In recognition of outstanding contributions to the progress of aerospace activities in the St. Louis area by a member or nonmember.*

The history of these awards spans several decades. Recipients cover a wide spectrum of individuals ranging from corporate leaders to researchers to congressman to engineers to journalists. The significance and prestige of the awards can not be overstated. Prior recipients view them as a great honor. Further, St. Louis is one of the few sections in all of AIAA that has a heritage of bestowing such awards on an annual basis.

If you are associated with individuals whose achievements merit candidacy please submit a nomination on their behalf.

Review of nominations by the Selection Committee will commence 2 April 2001. The Committee encourages you to expend time and effort nominating worthy recipients. Please help preserve a rich heritage and St. Louis tradition!

Submit Nomination to:

Catherine Sabinash, AIAA Honors and Awards Committee Chairman
The Boeing Company, PO Box 516, MC S2704360, St. Louis, MO 63166-0516
catherine.m.sabinash@boeing.com, Phone (314)233-5113, FAX (314)234-0421



**American Institute of Aeronautics and Astronautics
St. Louis Section**

Nomination Must Be Received by 2 April 2001

1. **Indicate the Award:**

- * Technical Contribution
- * Section Service
- * Technical Management
- * Civic

2. **Nominee:**

Name: _____

Title/Position: _____

AIAA Membership Grade:

- * Associate Member
- * Member
- * Senior Member
- * Non-Member
- * Associate Fellow
- * Fellow
- * Honorary Fellow

3. **Proposed Citation:**

Statement in 25 Words or less of the achievement upon which the nomination is based:

4. **Basis for Nomination:**

On separately attached sheets, please set forth the basis for the nomination including discussion of the importance of the achievement with specific evaluation of success in its practical application. The discussion should make clear the times and dates involved and specific ways in which the requirements of the award are met. Technical award nominations should include a list of publications, technical reports, conference papers, lectures, and patents relevant to the achievement under consideration. Avoid generalities. Stress personal accomplishment.

5. **Nominator:**

Name: _____ Phone: _____

Organization: _____

6. Letters of Recommendation: (Optional)

Letters of recommendation attesting to the importance of the achievement may be submitted in support of the nomination.

Please furnish all relevant information: missing data cannot be obtained elsewhere. The submitted material will constitute the total case, as it will be presented to the Honors and Awards Committee:

7. **Submit Nomination to:**

Catherine M. Sabinash, AIAA Honors and Awards Committee Chairman
The Boeing Company, PO Box 516, MC S2704360, St. Louis, MO 63166-0516
Phone: 314-233-5113 Fax: 314-234-0241



American Institute of Aeronautics and Astronautics, St. Louis Section

“Evolution of Flight” Air & Space Trivia Night

Saturday, 31 March 2001

**Doors Open 6:30 p.m.
Round 1 Begins 7:00 p.m. Sharp!**

Hazelwood Community Center

White Birch Park, 1186 Teson Road

[Directions: I-270 to McDonnell Blvd, North to Teson Road]

Trivia Game

\$80 / Table

Maximum of 8 people per table

10 Rounds / 10 Questions

First Place Team wins \$160

Second Place Team wins \$80

Reserve your table today!

Call Karen at (636) 272-6340

or (314) 234-5742

e-mail at kkcopper@aol.com

Terrific Attendance Prizes!!!

Tax Deductible Contribution!

Challenge your Colleagues!!

Lightning Bonus Game

\$5 / Person (Purchase Night of Event)

3 Rounds / 10 Questions

Individual with most points wins 25% of Lightning
Bonus Game Jackpot!

Send \$80 check payable to AIAA to:

AIAA

c/o Karen Copper

1 Shaker Leg Court

O'Fallon, MO 63366-8480

The St. Louis Section of the American Institute of Aeronautics and Astronautics is participating in the National AIAA "Evolution of Flight" program to inform, inspire and celebrate the wonders of flight leading to a celebration of the 100 year anniversary of the Wright Brothers first powered flight at Kitty Hawk, North Carolina in December 2003. This fund-raiser will help pay for upcoming local programs and events.

Go to website <http://www.flight100.org/> for more information.

You are welcome to bring snacks & drinks

(Beer & wine are allowed, but no hard liquor.)

WASHINGTON UNIVERSITY



Andy Logan, Boeing V.P. of Advanced Rotorcraft Design, was the featured speaker at a joint American Helicopter & AIAA meeting, Tuesday 6 February. Andy spoke about the Phantom Works organization and products. Descriptions of the Boeing rotorcraft products followed with additional descriptions of future concepts. Andy presented the Canard Rotor Wing, Advanced Theater Transport, and four post tiltrotor. A combination of Boeing and University students, approx. 45, attended the briefing and were treated to pizza and soda.



ST. LOUIS UNIVERSITY

Aero students are busy working on their papers for the upcoming, 18-20 April, Student Conference at Iowa State University.

SCIENCE OLYMPIAD JUDGES NEEDED

The regional Science Olympiad will be held at Hazelwood West High School, 10 March 2001, and needs additional volunteer judges. Approximately 20 teams, of 15 high school students each, will compete in each of 22 areas. Areas needing support are: astronomy, web mechanics, data gathering, experimental design, weather, disease detective, rocks and minerals.

Judges will have a great time interacting with area students in a rewarding and fun day. Lunch will be provided to volunteer judges. Those wishing to participate should contact: Joan Twillman (rtwillman@win.org) or Gary Taylor at 314-291-0742.

1st AIAA Evolution of Flight Campaign Art Contest.
“The Future of Flight”

Students, ages 5-13, should depict your vision of what air or space travel will look like in the next 100 years. The winning artwork will be featured on the AIAA Evolution of Flight web site and may be included in other promotional materials, including a traveling display. Prizes will be awarded.

Entries must be on an 8-1/2" x 11" sheet of white paper (no computer generated or three-dimensional art is eligible).

Write your name and age on the front of your entry in the bottom right corner in black marker ink. Have your parent or guardian fill out and sign the AIAA Entry/Parental Contest form and mail the entire package to:

Evolution of Flight Campaign Art Contest
 Attn: Kimberly Grant
 1801 Alexander Bell Drive, Suite 500
 Reston, VA 20191-4344

Entries must be postmarked by 16 March 2001. Entries postmarked after 16 March 2001 will not be considered in the contest.

To find more information on the contest and rules, please visit http://www.flight100.org/activities/activities_artcontest.html

ADVERTISING OPPORTUNITIES

Advertising rates for a single insertion are:

Full page	\$150	Third page	\$ 75
Half page	\$100	Sixth page	\$ 50

Rates for other advertising space and multiple insertions will be provided on request. All inquires concerning advertisement should be directed to the editor at the indicated phone or e-mail address.

The AIAA Gateway News is a publication of the St. Louis Section of the American Institute of Aeronautics and Astronautics. The newsletter is published monthly except for June, July, and August. Circulation is approximately 900 members in the St. Louis area. Submission of articles to be published should be addressed to the editor. Items will be published on a space available basis and may be edited as necessary.



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

Newsletter and meeting announcements late?? The St. Louis section is working to cost-effectively speed announcements to our members. If you have an external Boeing e-mail address, please forward that to : dianne.chong@boeing.com and david.e.morgan@boeing.com. We are compiling an e-mail list for timely meeting announcements.

**American Institute of Aeronautics and Astronautics
 St. Louis Section 2000 - 2001 Council Roster**

Office	Incumbent	Address	Telephone / Fax	E-Mail
Chairman	Larry Brase	MC S064-1092**	777-5586 / 777-5161	lawrence.o.braser-jr@boeing.com
Vice Chairman	Peggy Holly	MC S276-1009**	234-3513 / 234-5010	margaret.a.holly@boeing.com
Secretary	Mark Johnson	MC S064 1092 **	234-2692 / 232-7774	mark.j.johnson2@boeing.com
Treasurer	Karen Copper	MC S001 2700**	234-5742 / 234-2369	karen.k.copper@boeing.com
Advisors	John L. Mohr	11638 Summerhaven Dr. St. Louis MO 63146	567-3398	JLMohr@aol.com
	David A. Peters	Campus Box 1130 One Brookings Dr., St. Louis MO 63130	935-4337	dap@mecf.wustl.edu
	Walter J. Reschke	MC S064-3449	777-4038	walter.j.reschke-jr@boeing.com
	Charles R. Saff	MC S102-1322	233-8623 / 777-1171	charles.r.saff@boeing.com
Region V Rep.	Dianne Chong	MC S001 2700 **	232-9719/ 234-2369	dianne.chong@boeing.com
Committee	Chair	Address	Telephone / Fax	E-Mail
Arrangements	Karen Copper	MC S001 2700**	234-5742/ 234-2369	karen.k.copper@boeing.com
Attendance	Andrew Cary	MC S106-7126	234-1830	andrew.w.cary@boeing.com
Career Enhancement	Steve D'Urso	MC S064 2809 **	233-5441	steven.j.durso@boeing.com
Education	Marty Ferman	1452 Old Farm Dr. St. Louis, MO 63146	542-0703 / 997-8437	fermanma@slu.edu
Education	Rich Andres	4943 Crownover Dr. St. Louis, MO 63128	892-5117	andresm@aol.com
Historian	Fred Roos	MC S102 1431 **	234-9935 / 233-2918	frederick.w.roos@boeing.com
Honors & Awards	Catherine Sabinash	MC S270 4360 **	233-5113 / 234-0241	catherine.m.sabinash@boeing.com
Membership	Dianne Chong	MC S001 2700 **	232-9719/ 234-2369	dianne.chong@boeing.com
Newsletter	Dave Morgan	MC S106 7250 **	234-1919 / 777-1977	david.e.morgan@boeing.com
Pilot Education	Jeff Larrick	MC S102-2272	232-3455	jeffrey.c.larrick@boeing.com
Pre-College Outreach	Bill Bernzott	MC S064 2807 **	234-6271 / 234-0510	william.j.bernzott@boeing.com
Programs	Ray Cosner	MC S1067126 **	233-6481 / 777-1328	raymond.r.cosner@boeing.com
Public Policy	Dick Pinckert	MC S034 1126 **	234-0623	richard.e.pinckert@boeing.com
Publicity - Internal	Bruce Scheidhauer	MC S270 4360 **	233-0759 / 234-0241	bruce.r.scheidhauer@boeing.com
Service Projects	Gary White	MC S500 2025 **	925-4247 / 925-5853	gary.p.white@boeing.com
Tech. Specialist Mtg.	Joe Stemler	MC S106 7250	232-3362 / 232-3820	joseph.n.stemler@boeing.com
Webmaster	John Donigan	MC S064 1426 **	234-4103 / 777-1139	jdonigan@swbell.net
Young Members				
Young Professional Awards	Ron Smith	MC S106 2103 **	232-4671/ 232-1454	ronald.e.smith@boeing.com

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



2000 – 2001 St. Louis Section
Officers and Council Members

Non-Profit
Organization
Standard A
U. S. POSTAGE
PAID
Florissant, MO
Permit No. 121

FEBRUARY 2001

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Larry Brase

Vice Chairperson

Peggy Holly

Treasurer

Karen Copper

Secretary

Mark Johnson

Advisors

John Mohr

Dave Peters

Walt Reschke

Charlie Saff

AIAA FUTURE EVENTS

FEBRUARY DINNER MEETING



**“V/STOL PAST, PRESENT,
AND FUTURE”**

**FEATURING: JACKIE JACKSON
BOEING TEST PILOT**

Thursday, 22 February 2001

Thompson Center, Creve Coeur

Social 5:00 - 6:00PM

Dinner 6:00 - 7:00PM

Program 7:00 - 9:00PM

MARCH DINNER MEETING

Carolyn Griner, NASA
Distinguished Service
Award Manager

“Grease or Grit in Gears-Management in Motion?”

Wednesday, 21 March 2001

Airport Marriott



EVOLUTION OF FLIGHT TRIVIA NIGHT

Saturday, 31 March 2001

6:30 PM Til ?

Hazelwood Community Center