



Newsletter

Volume 35, Number 4, January 2005

Space Transport Corporation: An Overview

Phil Storm and Eric Meier, founders of STC
“Rocket Boys of Forks” on low-cost space travel

STC has developed small-payload suborbital launch technology based on engineering expertise, proven technologies, and flight program experience. Space Transport Corporation (STC), a competitor for the X Prize, is continuing its developmental efforts to provide low-cost access to space.

In the presentation on January 18th, founders Phil Storm and Eric Meier will offer a structured presentation, followed by an informal discussion to include:

- Space Transport Corporation overview
- What STC has done and why
- Markets and competition for STC technology
 - Suborbital and orbital
 - Living and inanimate payloads
- STC plans



Rubicon II prior to November 22nd launch

Over the course of two years since founding, STC has developed a valuable contact network for technical and business matters, including regulatory and legal support. STC is also wonderfully situated in Forks, Washington. From this basis, STC is offering launch services and building towards realizing huge dreams.



Phil Storm

Eric Meier

Phil has a B.S. in Mathematics from the University of Michigan. Prior to founding STC, he worked with Aerojet as a Development Engineer for next-generation monopropellant rocket engines and Space Shuttle components. Eric graduated from the University of Utah with a B.S. in Mechanical Engineering. He worked as an intern with JPL in their Advanced Propulsion Technologies Group. He also worked with Aerojet as a Development Engineer for electric propulsion and monopropellant rocket engines.

Joint AIAA/SFTE Lecture - Dinner Meeting

Date: **Tuesday, January 18, 2005**
Place: Old Spaghetti Factory 2801 Elliott Ave, Seattle, WA 98121
Time: 6:00 PM Social, No-Host Bar
6:30 PM Dinner (lasagna, spaghetti, or chicken Caesar salad)
7:00 PM Program

Dinner 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 (including meal choice)
You will receive a confirmation e-mail.
Or call **David Lednicer** at (425) 643-9090
SFTE Mike Bartlett – michael.f.bartlett@boeing.com
Please make reservations by Friday, January 14th
A reservation is a commitment to pay!

AIAA Design/Build/Fly

Report from Washington State University and UW AIAA Activities

In the November newsletter I directed your attention to the fact that students in the University of Washington Aeronautics and Astronautics department will be participating in the AIAA Design/Build/Fly (DBF) competition in April 2005. No sooner had that issue hit the streets than I heard from the AIAA student section at Washington State University. They have been participating in the DBF competition for the last few years and will do so again this year.

This was good to hear, but it also highlights the fact that the vast majority of our section's focus is on the Seattle area. This is to some degree inevitable, but it has made me aware of the need to find ways to involve our more far flung members in section activities. If any of you out there beyond the Seattle area have any ideas please let me know.

But back to the DBF competition. Both teams have websites that are a great way to keep up with the action.

The WSU DBF website is:
<http://www.aiaa.wsu.edu>
and the WSU team sent me this report recently:

“Well, progress is on several fronts. The preliminary design is mostly finished. Some detailed design aspects have been completed. Almost 50% of our CAD work is done. The fuselage molds have been cut. Propulsion testing continues, and is providing valuable information on selecting our final propulsion system setup.

As far as fundraising is concerned, we are still looking for sponsors to cover our travel expenses. We continue to sell WSU cribbage boards with two types, \$25 and \$50 versions. We hope to get more info on purchasing cribbage

boards and pictures on our website over the Christmas break.

Merry Christmas!

Tom Osmundson, President, WSU
AIAA
dieselfume@dieselfume.com”

The UW DBF website is:

<http://www.aa.washington.edu/aiaa/DesignBuildFly/>

The UW team will be giving a brief update of their project at the retiree brunch in January (details elsewhere) and team leader Toru Yamasaki can be reached at
trymask@yahoo.com

It's really great that we have two very active student sections entering the competition this year. Participation is on the expensive side, though. Construction expenses for both teams are covered, but the teams must take at least seven members to the fly off site at Patuxent River in Maryland which means that travel costs are steep. It would be great for the local section to help these outstanding students participate. Although I'm sure we have more UW alumni in the section than WSU, perhaps to balance it out some of you Cougars could pass this along to your non-aeronautical WSU friends (those WSU cribbage boards sound like a great gift idea for your friends...)

If you (or your company – sponsorship opportunities are available) feel inclined to support these teams please contact the team leaders above. If you don't have electronic access please call me at 425-717-5691 and I will connect you to the appropriate team.

Best wishes for a great 2005,
Dave Paisley
Section Chair, PNW AIAA Section

PNW Aerospace Timeline

Dinner Meeting and Lecture

January 18th

Topic: Space Transport Corporation – An overview
Date/Time: January 18th, 6:00 social; 7:00 presentation
Location: The Old Spaghetti Factory,
2801 Elliott Ave, Seattle

Retired Members Brunch

January 15th

Speaker: Dr. John McMasters
Date/Time: January 15, 9:00AM
Location: Museum of Flight, Seattle
Contact: Tom Holgate 253-838-0333

Membership Upgrades

Dave Paisley
PNW Section Chair

With the advent of the new year, I'd like to encourage all Pacific Northwest AIAA members to review their membership status and, if appropriate, consider applying for an upgrade in the new year or suggest it to a deserving colleague.

Members may apply for Senior Member status once they have accumulated eight years of successful professional experience (postgraduate education counts up to four years) and can apply for the upgrade at any time.

Senior Members may apply for upgrade to Associate Fellow if they have 12 years professional experience and have accomplished or been in charge of important engineering or scientific work, or have done work of outstanding merit or have otherwise made outstanding contributions to the field of aeronautics and astronautics. Applications for Associate Fellow are only considered once per year, and the deadline is April 15, so now is a good time to start. Application requires the endorsement of three AIAA members of Associate Fellow rank or higher.

All of the detailed requirements and forms are available online at the AIAA website:
<http://www.aiaa.org/content.cfm?pageid=183>

I encourage you to take a look and consider upgrading in 2005 and I would be happy to assist you with the process if you have any questions.

Retiree Brunch Presents:

**Reflections on the Future of Aeronautics
-An Early 21st Century Perspective**

**29th William Littlewood Memorial Lecture
With John McMasters**

January 15th Museum of Flight 9:00 – 11:00 a.m.

The January Retiree brunch features John McMasters delivering segments of his 29th William Littlewood Memorial Lecture. In this lecture, John McMasters takes on what's needed to prepare the future generation of aerospace professionals; what it takes to attract talent, to educate talented people, and how to further develop the workforce.

Dr. McMasters joined Boeing Commercial Airplanes in 1976 as a research aerodynamicist. Since 2000, John has been a program manager for the Ed Wells Initiative, a joint program between Boeing and the Society of Professional Engineering Employees in Aerospace charged with enhancing the excellence of the SPEEA represented Boeing technical workforce. John's interests breach a broad range of topics including: low-speed/high lift aerodynamics, airplane design, the biomechanics of flight, paleontology, and *engineering education*. An Associate Fellow of the American Institute of Aeronautics and Astronautics, he twice served as an AIAA Distinguished Lecturer - from 1992-94 and again from 2002-05. He was selected in 2004 to be the 29th SAE/AIAA Littlewood Memorial Lecturer.

Special activity – University of Washington AIAA students spend 15 minutes on their entries to design/build/fly contest.

\$17 per person, advance notice necessary.
\$7 special rate for students.

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

Please submit newsletter materials to the editor by the 21nd of January for the February Newsletter.

Outstanding Section Awards	Membership Award
1972-1973	1997-1998
1977-1978	Young Member
1978-1979	Activity Awards
1991-1992	1990-1991
1993-1994	1991-1992
1994-1995	1994-1995
	1995-1996
Section Special Event Awards	Career Enhancement Award
1976-1977	1997-1998
1977-1987	Newsletter Awards
1978-1979	1994-1995
1982-1983	1995-1996
1987-1988	1996-1997

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Address Corrections

Send to: **AIAA**
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Reston, VA 22091

Now make corrections on-line at
<http://www.aiaa.org>
 (Join/Renew/Update). Membership ID needed

Section Officers and Directors

Position	Name	Address (Mail stop if Boeing*)	Phone	Email address
Council				
Chairman	Dave Paisley	0R-MP	425-717-5691	david.j.paisley@boeing.com
Vice-Chairman	Dave Lednicer	2133 152nd Ave NE/Redmond, WA 98052	206/746-1299	dave@amiwest.com
Secretary	Jon Lee	02-XJ	425-71705529	jonathan.p.lee@boeing.com
Treasurer				
Advisory Council	Martin Gibbins	4E-11	206-655-2727	martin.n.gibbins@boeing.com
Advisory Council	Scott Eberhardt	P.O. Box 352400, UW, Seattle, WA 98195	206-543-6508	scott@aa.washington.edu
Advisory Council	Doug Ball	67-LH	425-234-1016	douglas.n.ball@boeing.com
Advisory Council	Kari Seppanen	14-KF	206-655-3356	kari.j.seppanen@boeing.com
Past Chairman	Vera Martinovich	02-XJ	425-266-8664	vera.a.martinovich@boeing.com
Elected, non-voting				
Vice-Chairman-Elect	Paul Bolds-Moorehead	67-65	425-237-5176	paul.j.bolds-moorehead@boeing.com
Secretary-Elect	Monica Alcabin	8J-95	253-657-3342	monica.s.alcabin@boeing.com
Treasurer-Elect	Andrew McComas	2133 152nd Ave NE/Redmond, WA 98052	425-643-9090	mccomas@amiwest.com
Appointed				
Webmaster	Jane Kuta	8A-94	253-773-5759	jane.f.kuta@boeing.com
Honors & Awards	Scott Eberhardt	P.O. Box 352400, UW, Seattle, WA 98195	206-543-6508	scott@aa.washington.edu
Retired Members	Tom Holgate	2704 SW 314th, Federal Way, WA 98023-7842	253-838-0333	holgatz@aol.com
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	03-JP	206 227-7819	emmanuel.m.domingo@boeing.com

* All Boeing people have the address of P.O. Box 3707, Mail Code xx-xx, Seattle, WA 98124-2207



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