



Newsletter

Volume 36, Number 4, January 2006

US Navy Maritime P-8A Multi-Mission Aircraft

Ray Figueras

Boeing Director, Product Support P-8A



January's dinner meeting will be a joint meeting with the UW student branch. The speaker will be Ray Figueras of Boeing. Mr. Figueras will be providing an overview presentation of the new US Navy Maritime P-8A Multi-Mission Aircraft (MMA), a commercial derivative solution to a military requirement. Areas of discussion include requirements, differences in traditional development approach, advantages of a commercial investment in the 737, Contractor Logistic Support (CLS), and training system

Mr. Figueras is the director of Program Product Support for the P-8A. He joined Boeing in November 2000 to pursue the 737 solution to the Navy's MMA requirement. His organization involves logistics, maintenance, and training throughout the life cycle of the P-8A.

A retired Navy captain and P-3 pilot, Mr. Figueras commanded Patrol Squadron 8 and Patrol Wing 5, both based in Brunswick, Maine, during a 28 year Navy career. He retired in 1995 and has held positions in the



aerospace industry relating to the P-3C, EP-3E, and VPU programs since. His employers include Chrysler Technologies Airborne Systems (CTAS), Waco, Texas; Raytheon Systems Company, Washington, DC; and Information Systems Inc. (ISI), Annandale, VA.

Mr. Figueras holds a BA degree in History and an MA degree in Management. He and his wife Diana have four grown children and reside in Renton, WA.



Joint AIAA/SFTE Lecture - Dinner Meeting

Date: **Tuesday, January 17, 2006**

Place: University of Washington
Guggenheim Hall, room 306

Directions: www.aa.washington.edu/contacts/directions.html

Time: 6:00 PM Dinner (pizza)

Dinner Price:

\$15 AIAA/SFTE Members and Guests

\$18 Non-Members

Free Students and Educator Associates

Reservation Option Via Section Website

AIAA members can sign up online at <http://www.pnwaiaa.org> or send an e-mail to reservations@pnwaiaa.org. A confirmation e-mail will follow. Or call **David Lednicer** at (425) 643-9090.

SFTE members may contact **Mike Bartlett** at michael.f.bartlett@boeing.com.

Please make reservations by Monday, January 16th.
A reservation is a commitment to pay.

Events

December Meeting: The Twister Homebuilt Aircraft

The December meeting featured Mike Friend speaking about the Twister homebuilt aircraft. Mike is Preliminary Design Chief, responsible for managing configuration development of 747LCF freighter, and configuration analysis planning for 787. Mike has been involved in the construction of the Twister, a state of the art composite aircraft. The Twister was on display at the museum.

A video, courtesy of the Museum of Flight, was presented to Mike and the Section. The Council would also like to thank the Museum of Flight for their assistance and willingness in hosting this event.



Future of Flight gallery.



Boeing Everett factory as viewed from the Future of Flight deck.

Future of Flight Aviation Center Grand Opening

On December 17, 2005, the doors to the Future of Flight Aviation Center and Boeing Tour opened to the public. The museum is located in Everett, WA, just west of Paine Field and Boeing's Everett factory. Boeing tours now depart from the museum

The Center features a variety of exhibits, theater, cafeteria, two stores, and a rooftop deck. The exhibits are divided into eight zones: airplane design, flight deck, systems, future concepts, materials, passenger experience, propulsion/engines, and manufacturing. The Boeing theater is primarily used to begin the Boeing factory tour with two short videos. The Boeing Store has moved with the Tour Center, joining the museum's gift shop.

Finally, a visitor can head up to the rooftop deck that offers a view of the Boeing factory, paint buildings, and Paine Field's runway. If you're lucky, you might be in time to watch a takeoff of a new Boeing jet.

For more information, visit www.futureofflight.org.

PNW Calendar	
Saturday, February 18th	
2006 Engineering Fair Museum of Flight, Seattle	
Tuesday, February 21st	
Speaker:	David King, Aerojet
Topic:	Electric Propulsion
Tuesday, March 21st	
Speaker:	AIAA Distinguished Lecturer
Topic:	TBD
Tuesday, April 18th	
Speaker:	Scott Eberhardt
Topic:	TBD
Tuesday, May 16th	
Speaker:	Jeff Boulware
Topic:	SED Zero Gravity Project
Tuesday, June 20th	
Speaker:	Ratan Khatwa
Topic:	Flight Deck Design-The Human Factor Challenge
* Meetings begin at 6:30 PM at the Old Spaghetti Factory, Seattle.	
Retired Members Brunch	
Tuesday, January 21st	
Speaker:	TBD
Date/Time:	January 21, 9:00 AM
Location:	Museum of Flight, Seattle
Contact:	Tom Holgate (253) 838-0333

2005 SGC and IAC

By Sanjoy Som

With a \$500 grant from the PNAIAA, I was able to participate in the Space Generation Congress (SGC) and attend the International Astronautical Congress (IAC), both held in Fukuoka, Japan, this past October. Before I start telling you about my time there, I feel it is important to tell you a little about the organizations and pass the word along, especially to the students and young professionals. The Space Generation Foundation (co-founded by Peter Diamandis and Robert Richards (X-Prize, ISU anyone?)) is dedicated to "finding everyone committed to using space to make a difference and inspiring them, connecting them, training them and holding them to that." After the UNISPACE III conference (the Third United Nations Conference on the Exploration and Peaceful Uses of Outer Space), the Space Generation Advisory Council (SGAC) took form and was charged to make recommendations to the UN committee on the Peaceful Uses of Outer Space (UNCOPUOS), through raising awareness and exchanging fresh ideas by youth.

The SGC was born out of the need to bring youth together and create a worldwide network of young space enthusiasts who will lead humanity in space in the coming decades. The SGC in Fukuoka was the third time the Congress met. I invite you all to visit <http://spacegeneration.org> to fully appreciate the organizations mentioned above and to find information on how to get involved. I got hooked!

The SGC is an intense four day workshop where different topics are discussed in forums before the Congress and brainstormed on while there. At the end of it, all groups spend the last day presenting their findings to the others. The main

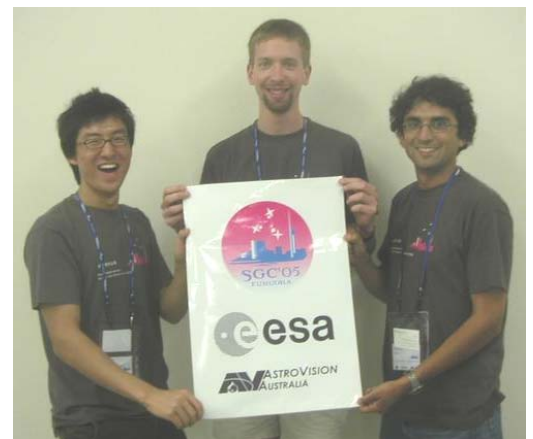
goal of the Congress, from what I experienced, is promoting networking and awareness! Indeed, the importance of making people aware of what is happening in space, outside of their own fields, is of crucial importance in the increasingly interdisciplinary nature of space exploration. In my case, I chose to participate in the workshop dealing with space policy. Holding a B.S. and M.S. in Aerospace Engineering, and now working towards a PhD in Planetary Sciences and Astrobiology, I didn't have the slightest clue about space law before reading about it and preparing myself for the workshop. There, I learned about the activities of the UN for space exploration. What is great is that today, the SGAC holds the recognized status of "Observer" at the UNCOUOS' two subcommittees: the Legal subcommittee and the Scientific & Technical subcommittee. Through them, we are becoming more and more aware of what legal issues are occurring behind the scenes in space exploration. Our job in the workshop was how to organize our presence at the UNCOUOS in Vienna, and how to make the information learned by the SGAC UNCOUOS team more available to the Space Generation.

Following the four days of SGC, we all attended the International Astronautical Congress. There, I got the opportunity to chat with people like Scott Hubbard (NASA Ames Director and first president of the NASA Astrobiology Institute), John Rummel (NASA Planetary Protection Officer) and the President of the Swiss Federation for Astronautics (where I am originally from), among others. I sat in many sessions where I was brought up to date with the latest developments in space exploration.

My time in Japan was a life changing experience. I spent 10 days with amazing young people who are as fascinated about space exploration as I am, and the incredible energy that was flowing is beyond words to describe! I have made friends for life there, friends from across the world who, like me, don't look at the future of humanity in space as a science fiction dream, but

as an achievable and necessary goal that will happen within our careers. Friends who will become colleagues when we become active leaders in the space exploration industry.

The 2006 events will be held in



UW A&A contingent at SGC: (l-r) Scott Moon (student), Graylan Vincent (alum), Sanjoy Som (alum).

(2007 in New Delhi, 2008 in Glasgow). This has been an incredibly motivating 10 days and I have become involved in many projects. The SGC was not just a four day event, but a confirmation of the path and career I want to be active in. Thank you AIAA for your support, and expect to hear from me next year.

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

Please submit newsletter materials to the editor by the 21st of January for the February 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
Address Corrections

Send to: **AIAA**
1801 Alexander Bell Dr.
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 Lednicer	2133 152nd Ave NE, Redmond, WA 98052	425-643-9090	dave@amiwest.com
Vice-Chairman	Paul Kostek	6M-EU	-	kostek@pnwaiaa.org
Secretary	Michelle Evans	02-10	-	michele.e.evans@boeing.com
Treasurer	Andrew McComas	2133 152nd Ave NE, Redmond, WA 98052	425-643-9090	mccomas@amiwest.com
Advisory Council	Howard Rush	-	-	hmrush@comcast.net
Advisory Council	Christian Carpenter	P.O. Box 97009, Redmond, WA 98073	-	christian.carpenter@rocket.com
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	Dave Paisley	0R-MP	425-717-5691	david.j.paisley@boeing.com
Elected, non-voting				
Vice-Chairman-Elect	Scott Eberhardt	-	-	eberhardt@pnwaiaa.org
Secretary-Elect	Jon Lee	02-XJ	-	jonathan.p.lee@boeing.com
Treasurer-Elect	Chris Nelson	6712 183 rd St. SW, Lynnwood, WA 98037	-	ccnelson@comcast.net
Appointed				
Webmaster	Andrew McComas	2133 152nd Ave NE, Redmond, WA 98052	425-643-9090	mccomas@amiwest.com
Honors & Awards	Scott Eberhardt	-	-	eberhardt@pnwaiaa.org
Retired Members	Tom Holgate	2704 SW 314th, Federal Way, WA 98023-7842	253-838-0333	holgatz@aol.com
Newsletter	Emmanuel Domingo	03-JP	-	domingo@pnwaiaa.org
Nominations	Vera Martinovich	02-XJ	425-266-8664	vera.a.martinovich@boeing.com
Museum of Flight Liaison	Open	-	-	-
Pre-College Outreach	Scott Eberhardt	-	-	eberhardt@pnwaiaa.org
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	-	domingo@pnwaiaa.org

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



AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS
PACIFIC NORTHWEST SECTION

PRST STD
 U.S. POSTAGE
 PAID
 SEATTLE, WA
 PERMIT #1686

AIAA
 Pacific Northwest Section
 Attn: Emmanuel Domingo
 1001 W. Casino Rd., A103
 Everett, WA 98204