



American Institute of Aeronautics & Astronautics
St. Louis Section



Wednesday, 12 October 2011
Boeing Bldg 100 Café/Theater
Corner of McDonnell Blvd & Airport Rd
Berkeley, MO

“X2: Breaking the Helicopter Speed Record”



Guest Speaker

Mr. Bill Welsh

Engineer, Sikorsky Aircraft



The Sikorsky X2 is an experimental compound helicopter with coaxial rotors developed by Sikorsky Aircraft. The X2 first flew on 27 August 2008 with the flight lasting 30 minutes and embarking upon a 4-phase flight test program culminating with reaching a planned 250-knot top speed. On 15 September 2010, the X2 was flown at a speed of 250 knots in level flight, an unofficial speed record for a helicopter. Mr. Welsh’s presentation will focus on this unique demonstrator helicopter and the unique capabilities it brings to the field of aviation.

Mr. Welsh has been a dynamics engineer for Sikorsky since 1981. His work at Sikorsky has been focused primarily upon active vibration and noise reduction, aeroelastic stability and vibration analysis. He led the technology development and production of active vibration systems which are now deployed on the civil S-92, the Army UH-60M and Navy MH-60S and MH-60R helicopters. He was instrumental in developing the vibration control systems on the new S-76D and the experimental X2 aircraft. Bill is currently the Chief of the Dynamics and Internal Acoustics group. He is a member of the AHS and of the AIAA and served as the AHS Dynamics committee chairman and Stratford chapter president. He is currently the VP of the AHS Northeast Region. Bill has authored or co-authored over a dozen technical papers and holds 14 patents.

Schedule

Dinner	5:00 – 6:00
Presentation	6:00 – 7:00

Menu

Roasted turkey and London Broil,
Vegetable Medley, Roasted Red
Potatoes, Tossed Green Salad,
Roll, Cookie, Soda

Ticket Price

\$5 Students/EA Members
\$10 AIAA Members
\$25 Non-Members

Reservation Deadline Noon Monday, 10 October

Ticket Sales and Reservation Contacts

Rob Sutton, 314-232-1285, robert.w.sutton3@boeing.com
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Interested in joining AIAA? Contact Darin Haudrich (314) 233-7554 for free ticket information