



The Philadelphia Chapter of the  
American Helicopter Society

and

The Army Aviation Association of America  
Proudly Present A



**Note: 3rd Tues. of  
November!**

**JOINT DINNER MEETING**  
**Tuesday, November 17th, 2009**

*Program:* **“Aviation Engineering Activities in  
Support of the Army Fleet”**

*Speaker:* **Dr. William D. Lewis, US Army AMRDEC  
Director of Army Aviation Engineering**

*Sponsor:* **PIASECKI AIRCRAFT CORP.**

*Place:* **D’Ignazio’s Towne House Restaurant,  
117 Veterans Square, Media, PA 19063**

*Time:* **Cocktails - 5:30 pm, Dinner - 6:30 pm, Presentation - 7:30 pm**

*Musical Guest:* **Philadelphia Boeing Music Society**

*Menu:* **Filet Mignon, Eggplant Parmesan, Flounder w/ Stuffed Crabmeat**

*Registration:* **Deadline Friday November 13th Please!**

<b>AHS Members</b>	<b>\$ 20.00</b>
<b>AHS Member Couples**</b>	<b>\$ 40.00</b>
<b>Guests of AHS Members*</b>	<b>\$ 25.00</b>
<b>Non-Members</b>	<b>\$ 30.00</b>
<b>AHS Student Members</b>	<b>\$ 10.00</b>

\* Please fill out the guest voucher on page 3 to receive the guest rate.

\*\* Spouses are encouraged to attend!

*Reservations:* **email: [dinnermeetings@ahsphillypa.org](mailto:dinnermeetings@ahsphillypa.org)**

**Phone: 610-522-4973**

Please provide [1] first & last name, [2] menu selection, and [3] registration type.

**If you need to cancel your reservation please do so by 10 AM the day of the meeting!**

**Dr. William D. Lewis,  
Director of Aviation Engineering  
US Army Aviation and Missile Research,  
Development & Engineering Center  
(AMRDEC), Redstone Arsenal, AL**



***About our speaker ....***

Dr. William D. Lewis was selected for the Senior Executive Service in July 2006. As the Director of Aviation Engineering, he is the Airworthiness authority for Army aircraft and provides matrix support to customers. Dr. Lewis' direct customers are the Program Executive Officer Aviation Program/Project/Product Managers. The ultimate customers are the Army aircraft crew, passengers, and maintainers that operate the Army aviation systems. In this capacity, he insures flight safety of all Army aircraft via design and flight restrictions. Additionally, he is responsible for the design and performance verification of aircraft and equipment to support Army aviation.

Prior to assuming his current role, Dr. Lewis retired from active duty after 21 years of service at the rank of Lt. Colonel. Dr Lewis has served as an aerospace engineer under the Army Aviation Systems Command, as an experimental test pilot, and as PM for an Army Aviation Program.

In 1996 Dr. Lewis became a Professor at the University of Tennessee at Tullahoma. In 2002 he returned to the Army as a Systems Engineer in the Comanche program at the US Army Aviation and Missile Research, Development, and Engineering Center (AMRDEC) in Redstone Arsenal, Alabama. He also held positions of Chief Engineer in the Comanche Program, and Branch Chief, Flight Controls, Aeromechanics Division, Aviation Engineering Directorate, at AMRDEC. In 2004 he became Acting Director of the Aviation Engineering Directorate and in 2006 he was permanently selected as the Director.

Dr. Lewis earned his Ph.D. from Georgia Institute of Technology and he also holds an MS in Aviation Management from Embry-Riddle Aeronautical University, an MS in Aeronautical Engineering from the US Air Force Institute of Technology and a BS in Applied Science and Engineering from the US Military Academy at West Point.

Dr. Lewis is a recipient of the Order of Saint Michael (Bronze Award), from the Army Aviation Association of America (AAAA), and he is also an active member of the Society of Experimental Test Pilots, the American Institute of Aeronautics and Astronautics (AIAA) and the American Helicopter Society (AHS).



**PIASECKI  
AIRCRAFT  
CORP.**  
*PIONEERS IN VERTICAL FLIGHT*



***About our sponsor ...***

Piasecki Aircraft Corporation (PiAC] was founded by Frank N. Piasecki. Through it's more than 60 year history, PiAC has been responsible for some of the most revolutionary advances in rotorcraft technology. Most notably, is the development of the first tandem rotor configuration in 1945. This technology dramatically increased the payload capability over the single rotor helicopter of that time. This technology has evolved into four generations of helicopters, the HUP, H-21, CH-46, and the CH-47 Chinook Series.

Piasecki's visionary design team also lead them to develop the compound helicopter. The first of its kind was the 16H-1 Pathfinder, which took its first flight on February 21st. 1962. The Pathfinder replaced the traditional tail rotor with a ducted fan to provide control and additional forward thrust. The design also included a wing to provide additional lift at higher speeds. This technology is being further developed on the X-49A SpeedHawk Compound Technology Demonstrator. The X-49A recently completed the first phase of flight testing, demonstrating a 47% increase in cruise speed at the same power, along with a 50% reduction in vibration and fatigue loads. The U.S. Army and Congress have identified additional funding to support further developments through fiscal year 2010.

In all, Piasecki has been responsible for development of over 28 different vertical lift systems, which have resulted in generation of over \$16 billion of direct economic activity for the U.S.

PiAC is located in Essington, PA and occupies 55,000 sq ft. of engineering and manufacturing space. PiAC employs 70 full and part time engineering, manufacturing and quality control personnel. Piasecki Aircraft has been a loyal sponsor of the American Helicopter Society, Philadelphia Chapter and the AAAA Delaware Valley Chapter.

Thank you for joining us this evening and your interest in the AHS. Please fill out this guest voucher to receive the guest rate.

**AHS Philadelphia Chapter Dinner Meeting Guest Voucher**



**Guest's Name:** \_\_\_\_\_

**Guest Contact Info:** \_\_\_\_\_

**(e.g., Address, Tele No., E-mail)** \_\_\_\_\_

**Sponsoring  
Member's Name:** \_\_\_\_\_

<b>11</b>	<b>09</b>
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