

AirWaves



May 2016

AirWaves is published monthly and contains information about activities and benefits of the Association of Airworthiness Professionals.

AAP Officer Logbook

A Message from the President



There has been a flurry of activity since last month as AAP continues to flourish. We've increased our membership to 42 members. In addition, the website continues to grow to keep our membership informed.

We welcomed Dave Cripps to the Board of Directors team. Dave is the Deputy Director of the Aviation Engineering Directorate at the U.S. Army Aviation and Missile Research, Development and Engineering Center overseeing airworthiness for all Army aircraft.

We also appointed two chapter officers. Mike Troup will serve as Treasurer. Mike is an Airworthiness Lead at Lockheed Martin for the F-16 and T-X Programs. Jeff Baldino will serve as Webmaster. Jeff is an Airworthiness Lead at Lockheed Martin for the C-5M Program. Welcome Mike and Jeff!

Dawn McGarvey-Buchwalder has graciously volunteered to be the Editor of the

- Don Roberts
- Mike Fox
- Perry Whitten
- Bob Vankeppel

7. Technical Publications

- Tom Lewis (Chair)
- Don Roberts

If you are interested in joining one of the operating committees, please contact the committee chair or [Denna MacLeod](#).

Meeting presentation and minutes are on the [AAP Website](#).

The next AAP meeting will be held on Tuesday, 7 June 2016 at 7:30 PM EST

Member Spotlight

Dawn McGarvey-Buchwalder

After 33 years of service with the USAF, Dawn McGarvey-Buchwalder retired from Wright-Patterson AFB. She is a native Daytonian attending the University of Dayton to obtain a Bachelor of Chemical Engineering degree and a Master of Science in Computer Science, with an emphasis on man-machine interface.



Most recently, she served as the USAF's first Technical Advisor and Branch Chief for Airworthiness (AW) from 2011-16, executing DOD & Air Force Policy Directives on AW. Key to this duty was facilitating issuance of flight authorizations for over 150 USAF military types through development of bulletins and operating instructions, providing effective training, establishing the infrastructure for planning, reviewing, tracking and auditing of AW products, liaising with National and International AW Authorities and promulgating accurate, expeditious and thorough assessment of safety of the warfighter.

Prior to this appointment, Ms McGarvey-Buchwalder was the F-35 Chief Flight Systems Engineer and Pilot Systems Lead from 2004-11. She was the technical focal point for the development, qualification, certification, production readiness and flight testing of all F-35 pilot centric hardware, to include helmet mounted display, head down displays, ejection system, life support, pilot flight equipment, Pilot Vehicle Integration, accommodation, cockpit equipment, lighting, and canopy.

MsMcGarvey-Buchwalder's career has also had her leading life support programs on X-32, X-35, F-22, YF-22, YF-23, KE-3A, and C-12 with a focus to ensure that warfighter protection was commensurate with aircraft capability. She was integral to technology transition from the laboratory to the field in areas of Helmet mounted display, G/Altitude protection, Ejection restraint, Thermal protection, Vulnerability protection and Onboard Oxygen Generating Systems.

As a 5'2" female, she was an anthropometric subject for the USAF. She was utilized in the evaluation of reach/strength/vision for pilot, maintainer and aerial refueling operations across the majority of USAF platform, as well as used to assess helmet and clothing fit.

Dawn is currently working for Dayton Aerospace, Inc., as a Senior Associate, still assisting the aerospace and particularly the Airworthiness community.

She is married and has 2 adult sons. She loves the outdoors: bicycling, hiking, canoeing; and is a certified kettlebell instructor.



THE CHALLENGE HIRING EXPERIENCED AIRWORTHINESS PROFESSIONALS

By: Denna MacLeod

The increased importance on airworthiness, particularly in military programs, has placed greater awareness that airworthiness planning and activities need to be implemented early in the acquisition of new aircraft programs and modifications. A typical job requisition for an airworthiness engineer requires significant experience developing and performing technical airworthiness certification activities for highly complex air vehicle systems. So where do defense contractors find this specific pool of talent? Very few current airworthiness professionals made the conscious decision to enter the profession. Even fewer universities in the U.S. offer courses related to airworthiness. Many airworthiness engineers were drafted into the profession from systems engineering or system safety disciplines enticed by the challenge airworthiness certification activities possess. Despite their critical role for assuring and ensuring airworthiness, airworthiness engineers are not required to hold professional certification or undergo a formal method for recognizing knowledge, education, and experience in the profession. Operators assume aircraft are designed properly and delivered in an airworthy condition placing a tremendous responsibility on the airworthiness engineer. In The Nimrod Review, an inquiry into the wider issues surrounding

the loss of Nimrod XV230 in Afghanistan on 2 September 2006, the Independent Review Team report states, "Airworthiness must be delivered by people who are suitably qualified and experienced and have the right skills and training" [1]. The airworthiness engineer ranks among the more experienced engineers of the company and utilize this experience to lead teams of air vehicle subject matter experts through the airworthiness certification process. However, very few defense contractors have a defined career path for developing an airworthiness engineer. Unless an engineer is intrigued by the airworthiness certification process, a subject matter expert may be reluctant to depart the traditional technical career path for the uncharted career path of an airworthiness engineer. As defense budgets decline, defense contractors have reduced the workforce leaving organizations understaffed and overworked as employees are required to undertake additional tasks leaving little time for knowledge transfer and training. The result is an increasingly shallow pool of talent. Therein lies the challenge. Programs have an emergent need for experienced airworthiness engineers but are unable to fill the positions due to the lack of qualified candidates. Developing future airworthiness engineers is critical to the success of future aircraft programs. AAP is rising up to this challenge through mentoring, education, and university engagement activities aimed at high potential individuals who are looking to explore career options as an airworthiness engineer.

1. Haddon-Cave, Charles. The Nimrod Review. 28 October 2009. Crown Copyright 2009.



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