

## Aerospace Physiology Society 2012 Award Winners

*CDR Mike Kavanaugh, AsPS Awards Committee Chair*

The Aerospace Physiology Society (AsPS) is proud to announce the 2012 winners of the Society's annual awards for excellence in operational aerospace physiology, aerospace physiology research, aerospace physiology leadership, and its Partnership in Education Award. The award recipients were announced during the 83rd annual Aerospace Medical Association Annual Scientific meeting in Atlanta, GA, during the AsPS luncheon. The Society would also like to acknowledge each of our award sponsors. Because of their generosity, each recipient is presented with a plaque and an honorarium. Additionally, the winner of the Fred A. Hitchcock award is presented with a hardbound copy of "Barometric Pressure." This perpetual trophy is passed down to all Fred A. Hitchcock award winners.

### Wiley Post Award

The Wiley Post Award recognizes outstanding contributions in direct operational physiology and aeromedical training and education over the previous 12 months. In 1972, the



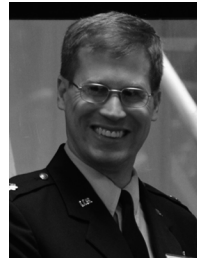
Wiley Post Award replaced the Paul Bert Award for Operational Physiology. Sponsored by GENTEX Corp, it is named in honor of the aviation pioneer Wiley Post and is presented for exceptional service and achievement in operational physiology, including education and

physiological support of Dept. of Defense, FAA, NASA, or civilian aircrew. The recipient for 2012 is Maj. Tom Massa, who currently serves as the Aerospace Operational Physiology Flight Commander for the 633rd Aeromedical Squadron, Joint Base Langley-Eustis, Virginia. In addition to directing/supervising AF111-403 physiological and human performance training for the Department of Defense, he leads the Langley F-22 return-to-fly program supporting 680 sorties / 1820 flying hours with pilot oxygen saturation pulse oximeter analysis. In his previous assignment he led the USAF's most effective flight safety program with the lowest Class A mishap rate among all commands for the past 3 years and was selected to forward deploy as a human factors consultant advising the Egyptian Air Force F-16 mishap safety investigation board. His contributions included the instruction of 80 Egyptian pilots and identification of eight critical safety recommendations which was lauded by the United States Embassy in Cairo.

### Paul Bert Award

The Paul Bert Award recognizes outstanding research contributions in aerospace physi-

ology over the previous five years. This award, sponsored by Wyle, was established in



1969 and is named in honor of the famous French physiologist, Paul Bert, the "Father of Pressure Physiology." The winner for 2012, Lt. Col. David Welge, was recognized for significant contributions to the field of aerospace and operational physi-

ology research as an investigator in studies examining the effect of class year and athletic status on the effect of altitude de-acclimatization and re-acclimatization. Results of these studies have the potential to impact performance of warfighters repeatedly deploying to moderate altitude locations. He has also served as a mentor to USAF Academy cadets, guiding them through the scientific process and showing them its real-world applicability.

### Fred Hitchcock Award

The Fred A. Hitchcock Award recognizes career contributions of senior aerospace physiologists for excellence in either operational aerospace physiology or aerospace physiology research. This award, sponsored by



International ATMO, was established in 1972, and is named in honor of Fred A. Hitchcock Ph.D., co-translator of Paul Bert's classic work, "Barometric Pressure." The 2012 winner Lt Col Brian Musselman, was recognized for his contributions as Director, Human Factors Investigation and Analysis, USAF Safety

Center and Executive Officer to the USAF Chief Safety. He has recently served as Chief, Air Force Human Factors and Operational Safety, Headquarters USAF, Office of the Chief of Safety, Pentagon. Lt Col Musselman spearheaded a thorough revision of the Department of Defense (DoD) Human Factors Analysis and Classification System. He reorganized a comprehensive system to realistically lead investigators through a systematic analysis process that reveals both active and latent human error. Lt Col Musselman's efforts will drive future investigations to explicitly target individual, environmental and organizational human factor issues.

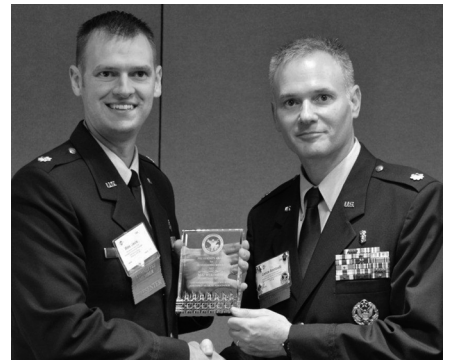
### Partnership in Education Award

The Partnership in Education Award, sponsored by the Aerospace Physiology Society, is given to a teacher in a school district of the host city for the current year's AsMA meeting. The recipient is an individual who has



brought a unique approach to teaching science in the classroom and has inspired his or her students to an interest in science. The 2012 winner is Mrs. Andrea Carter, a Life Science educator at Martin Luther King Jr. Middle School in Atlanta, GA.

### President's Award



Each year the Society President (Lance Annicelli, right) has the discretion to recognize outstanding achievement or contributions to the Aerospace Physiology Society with "The AsPS President's Award." This year's AsPS President's Award was presented to **Maj. James "Wes" Davis** (left).

Congratulations to all of this year's winners. Their hard work and dedication is a testament to the high quality of individuals dedicated to research, education, and training in Aerospace Physiology.

## Certification in Aerospace Physiology

The Aerospace Medical Association is pleased to congratulate those who successfully completed the requirements for Board Certification in Aerospace Physiology at the annual Aerospace Physiology Society luncheon on 16 May at the scientific meeting in Atlanta, GA.

**Prof. Glenn Harmon (Lt. Col., USAF, Ret.)** began his love with flying as a cadet in Air



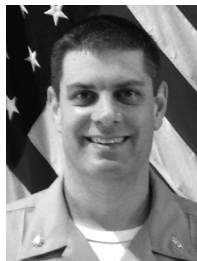
Force ROTC at East Carolina University. During his distinguished military career from 1977-1997; he served as a Weapons System Officer (WSO) on the F-111 fighter in Europe, and a navigation instructor on the T-43 while teaching at the

USAF Air Force Academy. He also served as a  
*See CERTIFICATION, p. 837*

## CERTIFICATION, from p. 836

coach for the USAFA flying team participating in National Intercollegiate Flying Association events. After returning from Desert Storm in 1991, he was selected to attend the USAF School of Aerospace Medicine to become an aviation physiologist, commanding a hypobaric chamber unit at Langley AFB training aircrews, civilian pilots and parachutists in high altitude physiology. From 1997-2006, Professor Harmon continued flying as an airline pilot with Atlantic Coast Airlines and Independence Air at Washington-Dulles airport. There he flew the British Aerospace Jetstream 41 and the Bombardier CRJ as a captain, instructor and line check airman. He joined the Embry Riddle faculty in 2006 teaching aeronautical science and physiology courses. In 2010, Professor Harmon was invited to become a member of the Bombardier Safety Standdown team as a special guest speaker. He has given presentations on Jet Lag and Fatigue, and Hypoxia Recognition Training at conventions and seminars in Geneva, Switzerland, Shanghai, China, Seattle Washington and Wichita, Kansas.

**LCDR Corey J. Littell, MSC, USN**, started his military career in 1998 as a direct accession Medical Service Corps Officer. Prior to his commissioning, he received a B.S. in 1994 from Keene State College with an emphasis in Sports Medicine/Kinesiology and a M.S. in Education from Old Dominion University with an emphasis in



Sports Medicine/Exercise Physiology in 1996. From 1994-1996 he served as a Graduate Assistant at Hampton University in Hampton VA in the Sports Medicine & Rehabilitation Department. Following completion of his Master's degree, he accepted the position of Head Athletic Trainer for the Newport News Shipbuilding Apprentice School in Newport News, VA, and also served as a rehabilitation consultant for Tidewater Physical Therapy, Inc., located in Hampton, VA, from 1996-1998. In 1998, he was commissioned as a LT Junior Grade in the Medical Service Corps of the U.S. Navy. His previous assignments include: Branch Head for the Naval Air Warfare Center, Aircraft Division Life Support and Survivability Branch from 2006 - 2009. His first Department Head tour was with Air Test & Evaluation Squadron Two-Zero where he served as the Crew Systems department head and as an Integrated Product Team Lead for the PMA202-sponsored FAILSAFE program. He has also been assigned as an Aeromedical Safety Officer for Fighter Wing and Strike Fighter Wing Atlantic at Naval Air Station Oceana from 2000-2004. These tours were preceded by a formalized Aerospace Physiologist preceptorship at Aviation Survival Training Center Cherry Point aboard Marine Corps Air Station Cherry Point, Aviation Preflight Indoctrination flight training at Naval Air Station Pensacola, and Officer Indoctrination School in Newport, RI. He is currently assigned as Director for Aviation Survival

Training Center Patuxent River Maryland. Here he is responsible for the daily delivery of High Risk physiology and water survival training for combat aircrew, special operations personnel and DoD civilian flight test engineers. He recently graduated from the Naval War College Joint Professional Military Education course and continues his academic pursuits through both the Defense Acquisition University and the Naval Aviation Test & Evaluation University.

**LT Kimberly L. Maryman, MSC, USN**, was born in Baton Rouge, LA. She graduated from Texas A&M University-Commerce with a



Bachelor of Science in Kinesiology and Sport Science in 2001 and a Master of Science in Exercise Physiology in 2003. After graduating, she joined the Navy as a direct accession in February of 2004 as a LTJG, following the footsteps of many of her

relatives, but becoming the first military Officer in her family. She completed Officer Indoctrination School (OIS) in Newport, RI, in April of 2004 and reported to Naval Operational Medicine Institute (NOMI) in Pensacola, FL, for Student Naval Aerospace Physiology (SNAP) training. Upon completion of SNAP training, Aviation Preflight Indoctrination (API), and flight school in November of 2004, she received her wings and became Naval Aerospace Physiologist #278. Afterwards, she reported to Aviation Survival Training Center, Whidbey Island, WA, as an Intern in December of 2004. During her Internship, she served as Division Officer and Training Safety Officer. She was promoted to the rank of Lieutenant in December of 2005, and completed her internship in March of 2007. She attended Aviation Safety Officer School in Pensacola, FL, while en route to Marine Aircraft Group One Three (MAG-13) in Yuma, AZ. While attached to MAG-13, she served as Aeromedical Safety Officer, Ground Safety Officer, Aviation Safety Officer, and Director of Safety and Standardization for 2 years. She then reported to Naval Air Warfare Center, Aircraft Division Human Systems Department, in Patuxent River, MD,

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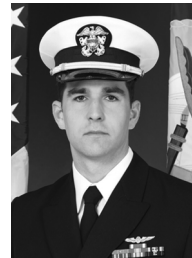
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**Lt. Col. Andy Woodrow, USAF, BSC**  
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in July of 2009, where she served as Aircrew Systems Mishap Investigation Support Team Lead, Fleet Air Introduction Liaison of Survival Aircrew Flight Equipment Team Lead, and NATOPs Program Manager. In January of 2012, she took over as Team Lead for Aircrew Systems Life Support Systems In-Service Support Center and continues to serve in this capacity. Her awards include the Navy Achievement Medal (x1), the Navy and



Marine Corps Commendation Medal (x2), Aerospace and Operational Physiologist of the Year 2010, and the Wiley Post Award 2011.

**LT Austin Latour**, in the photo to the left, is an Aerospace Physiologist with the U.S. Navy and holds a Masters in Exercise Physiology from Texas A&M University.

## Aerospace Physiology Certification

The Aerospace Physiology Certification Board of the Aerospace Medical Association will administer the certification examination at the 84th Annual Scientific Meeting in Chicago, IL, on Sunday, May 12, 2013.

Being awarded the gold pO2 pin and certificate of board certification says that a scientist has met significant academic challenges and is a true professional in a select field. In essence, board certification declares that an individual has formally earned the respect of his or her professional peers and their governing organizations. Finally, board certification serves as a goal that members can strive to attain through dedicated self-study and personal and professional contributions to the AsMA and AsPS. However, eligibility is not simply limited to individuals who possess the necessary academic backgrounds. Perhaps the most significant prerequisite is demonstrated interest, participation, and contribution to the field of aerospace physiology over a period of at least 5 years. Relevant education, experience, and professional contributions are each fundamental elements leading to board certification. Board certification in aerospace physiology says that a scientist takes the aeromedical profession seriously.

Application must be made prior to March 1, 2013, to assure consideration for the 2013 examination. Applications received after that date cannot be guaranteed consideration for the 2013 exam. Any late applications not considered for 2013 will automatically be held for consideration for the 2014 exam.

To obtain an application form and complete information about certification requirements, submit a short biography describing your relevant background in aerospace physiology and request for information to the Chair of the Admissions Committee:

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