

# President's Page

## Make a Difference through AsMA

My dear colleagues, first of all let me express my deepest appreciation and gratitude for being selected as your president for this upcoming year. I know so many of you in this extended family but not all of you, so let me share some background of this new president. I was born on July 4, 1960, grew up in New Jersey, became a physician, joined AsMA in 1986, specialized in internal, occupational and aerospace medicine and am employed by NASA as the Deputy Chief Medical Officer for the Kennedy Space Center, America's major space launch complex. I am married to an understanding nurse, Colleen, and have two children, Phil III and Henry. I have been told I am related to Antonio Scarpa, the famous anatomist (Scarpa's fascia, Scarpa's fluid, Scarpa's nerve, etc.). I have several addictions, I mean hobbies, and enjoy music, scouting, traveling, collecting, history, flying, anything space-related and a bunch of other things. So now my friends, if you see me and think I don't know you as well as you know me, I hope you can please return the favor!

As you know, the Aerospace Medical Association is our professional organization. Some of you may belong to others, but AsMA is truly unique. An international leader and voice for those involved in the continuous improvement of the safety, health and performance of the human in the air, space, and undersea environments. Our proud and productive organization contains a diverse and worldwide membership of nearly twenty two hundred, actively involved in a variety of areas encompassing clinical, academic, research, and regulatory activities, serving in industry, civil, government and military organizations.

Unfortunately, our great organization continues to be faced by weighty challenges. Declining membership, reduced funding, downsizing military and an increasing sense of the "routine-ness" of flying and space travel, no doubt in part a consequence of the success of our efforts.

However, our members are resilient, resourceful and extremely talented. In an honest comparison to other professional organizations, I think we have some of the best and brightest people in the world. Members that could command greater remuneration and privilege outside of Aerospace Medicine. Yet although our challenges are great and our members are tested, we pursue this field, make it our careers and our life's work. Why? I think it is because we are driven, not by financial gain, not by the comfort of routine and established professions, but by the need to improve the future. We are driven to make a difference in our world. We have no choice, it is our calling. And we all know it and recognize it in ourselves and in our fellow members worldwide. It is unmistakable. No other specialty organization in the world has such impassioned members. A few years back I had the privilege of speaking at a meeting in the United Kingdom along with



Philip J. Scarpa, Jr., M.D., M.S.

several other invited AsMA colleagues. We made part of the purpose of our trip to encourage the British medical students that attended the meeting to consider joining AsMA. In our strategy, and over a glass of scotch (I don't really drink very much but if you are in a country where scotch is made from a hundred or so things, you sample some), we contemplated our best rationales for membership. Why join? Why spend the time, the money? You certainly didn't have to be a member to attend the meetings, to earn training credits, or even to receive the journal (handy at many libraries). Then the reason for membership quickly became clear. Our members improve the world through advances in Aerospace Medicine. By being a member, you become a part of this group, a part of something greater than yourself. By being a member you can call on our organization to influence the field far more effectively than you could on your own. To make a difference in Aerospace Medicine through AsMA. This is one of the greatest values of membership!

Each of us might be able to tell a story of how AsMA helped them or influenced them to make a difference in Aerospace Medicine. It's worth sharing to remind us of why we are members, and to encourage new ones. In that regard, on this page throughout the coming year as events allow, I have asked several of our fellow members to share their stories of how AsMA has helped them make a difference in Aerospace Medicine. If you have a story to share please feel free to send it to me.

One way AsMA can help you make a difference is by being involved in one or more of its committees. I encourage you to also attend the AsMA Council and Business meetings, log on to our website regularly, publish in our journal and, of course, attend our annual scientific meetings. We just had a great one in San Diego. These can all help you 'make a difference'.

Thank you again for putting your faith in me as your president. I look forward to the next twelve months leading our great organization. If you have any concerns or ideas please feel free to let me know at [president@asma.org](mailto:president@asma.org) or call me at 321-867-6386.

# Association News

## Constituent Organization Presidents for 2014-15

### Wolbrink Is Incoming President of AMDA

Alex Wolbrink, M.D., M.S., is the new President of the Airlines Medical Directors



Association (AMDA). He is currently the president and owner of Aeromedical Advisors, LLC, an aviation medicine consulting business based near Colorado Springs, CO. He provides assistance to commercial pilots regarding the effect of medical condi-

tions on their flight status.

A native of Iowa, he earned a B.A. magna cum laude, in Chemistry from St. Olaf College, Northfield, MN, in 1991, and an M.D. from the University of Iowa College of Medicine in 1995. He completed a transitional residency at St. Vincent Hospitals and Clinics, Indianapolis, IN, in 1996 and then completed his Aerospace Medicine residency at Wright State University, Dayton, OH, in 1998. He wrote his Master's thesis on the Demographics of In-flight Medical Incidents. While at Wright State, he received the Student Excellence Graduate Award, the Col. Alonzo McWilliams Donnell Scholarship, and the Lorna and J. Harold Brown Aerospace Medicine Scholarship. He was Board Certified in Aerospace Medicine in 2002.

In 1998, he joined the Aircraft Accident Research Team at the FAA's Civil Aeromedical Institute (CAMI). While at CAMI, he had oversight of the autopsy database and also participated in writing the federal regulation which requires U.S. airlines to carry Automated External Defibrillators (AEDs) on passenger aircraft. He then joined the American Airlines Medical Department in 2003 where he served as an Area Medical Director until 2009.

In 1999, he was awarded the Julian E. Ward Memorial Award sponsored by the Society of USAF Flight Surgeons for outstanding achievement in aerospace medicine during residency training. He is also a member of the Phi Beta Kappa and Phi Kappa Phi honor societies.

Dr. Wolbrink has authored or co-authored many papers related to aviation accidents and passenger health and has also given numerous presentations on related topics.

He was elected a Fellow of AsMA in 2003 and Fellow of the Civil Aviation Medical Association (CAMA) in 2007. He has been a member of AMDA since 2004, serving as Treasurer from 2009 to 2012. He joined CAMA in 1998, where he has served both as the Vice-President for Education and is currently on the Board of Trustees. He joined the Aerospace Medicine Student and Resident

Organization (AMSRO) in 1996 and served as the Treasurer from 1996 to 1997 and the Vice-President from 1997 to 1998. He is also a member of the Christian Medical and Dental Associations.

He is currently on the AsMA Air Transport Medicine (ATM) Committee. He served as the chairman from 2003 to 2006 and deputy chairman from 2010 to 2013. He has also been on the Aerospace Safety Committee and the Program Committee, serving as the Panels Subcommittee Chairman in 2003-4.

### Barber to Lead ANS

Col. Kim Barber, USAFR, NC, is the incoming president of the Aerospace Nursing Society. She is a Senior Patient Movement



Clinical Coordinator in the 954th Reserve Support Squadron, U.S. Transportation Command, Scott Air Force Base, Illinois. Since her assignment there in 2003, she has served on the Joint Patient Movement Team in many capacities, including Deputy Director, Joint Patient Movement Requirements Center-CENTCOM, and as a joint educational trainer teaching trauma and combat trauma classes in support of deploying warriors.

A native of Birmingham, AL, Kim completed her Bachelor of Science in Nursing at Auburn University and University of Alabama, Birmingham, and worked as a civilian in the ICU and operating room (OR) until she was directly commissioned into the Air Force in April 1991. She proceeded to her first assignment at Travis AFB, CA, where she worked as surgical nurse manager in a 12-bed operating room. In 1995, then Captain Henderson married and transitioned from active duty to Reserves, joining the 349th Aeromedical Evacuation Squadron (AES) at Travis where she first realized her dream of becoming a flight nurse in the Air Force. In 1998 she moved to Dayton, OH, and joined the 445th AES. There she flew as an Instructor Flight Nurse and was Officer in Charge of Upgrade Training responsible for initial and upgrade training supporting the unit's 52 aeromedical evacuation crews. In 2003, then Maj. Barber moved into the joint services environment at United States Transportation Command, 954th Reserve Support Squadron, Scott AFB, IL, where she currently serves. In 2008, she completed a double Master's in nursing and business administration graduating summa cum laude.

In her civilian life, Col. Barber works as a Nurse Scientist for Wyle Corporation, United States Air Force School of Aerospace Medicine (USAFSAM), Wright-Patterson Air Force Base,

OH. Kim leads aeromedical evacuation research supporting enroute patient care at USAFSAAM which is considered the premier institute for research, education, and worldwide operational consultation in Aerospace Medicine. She received the 2013 Mary T. Klinker Award for her demonstrated training abilities and dedication to the execution of flawless patient care while she coordinated and flew patient validation for U.S. Transportation Command (USTC).

Col. Barber is a life member of the Aerospace Medical Association, the Reserve Officer's Association, and is past president of the Aerospace Nursing Society, a constituent of the Aerospace Medical Association. Within AsMA, she is active on the Council and the Registration Committee.

### Crowley is Next USAAMA President for 2 Years

John S. Crowley, M.D., M.P.H., is the 2014-16 president of the U.S. Army Aviation



Medical Association (USAAMA). A native of New York, Crowley received his undergraduate degree, a B.A. in Biology (1979), and his medical doctorate (1982) from the University of Missouri, Kansas City. He received his masters of public health from

Harvard in 1988.

A retired Army Colonel, John has spent most of his career at the U.S. Army Aeromedical Research Laboratory at Fort Rucker, AL, serving as Research Flight Surgeon, Chief of the Crew Life Support Branch, Chief of the Aeromedical Factors Branch, Director of the Aircrew Protection Division, Science Program Director, first as a colonel and then after retirement he has continued in that position.

He has served as Chair, Undersea and Hyperbaric Medicine Sub-Board, Vice Chair for Aerospace Medicine, and Chairman of the Exam Subcommittee for Aerospace Medicine Examination for the American Board of Preventive Medicine; U.S. representative to the Technical Cooperative Panel-Technical Panel 17, (TTCP-TP&) Human Factors in Aviation Environments (1992 - present); and on the Scientific Program Committee of AsMA, including Panels chair for 2001-2002 and Program Chair for 2007.

His honors include the Order of Aeromedical Merit for USAAMA, Order of Military Medical Merit, Wilbur Payne Memorial Award for Excellence in Analysis, U.S. Army Europe Flight Surgeon of the Year

See CROWLEY, p. 681.

*CROWLEY, from p. 680.*

for two years (1983-84 and 1985-86) as well as Meritorious Service Medal with 3 Oak Leaf Clusters, and the Legion of Merit.

He is author or co-author of over 70 publications and technical reports and presentations, including over a dozen published in *Aviation, Space and Environmental Medicine*. A Fellow of AsMA, he is also a member of the AMA, AMSUS, Society of U.S. Army Flight Surgeons, Army Aviation Association of America, the Association of the United States Army, Human Factors Society, and Aerospace Human Factors Association.

## Shoor Incoming President of ASAMS

Col. Daniel Shoor, USAF, MC, is the 2014-15 president of the American Society of Aerospace Medicine Specialists. He is currently



Commander of the 21st Aerospace Medicine Squadron and Chief of Aerospace Medicine, Peterson AFB, CO.

Colonel Shoor entered the Air Force in 1987 receiving his commission and degree in

Computer Science from the University of Illinois. Following initial Communications-Computer Operations School, he was stationed at Scott AFB, IL, in several communication-computer operations and maintenance positions. After obtaining needed post-undergraduate education, Colonel Shoor was selected to attend the Uniformed Services University of the Health Sciences. Graduating in 1996, he completed a Transitional Internship at Travis AFB, CA. Colonel Shoor then headed to Osan AB, South Korea, and later Spangdahlem AB, Germany, as a flight surgeon supporting numerous exercises and operations included Northern Watch, Allied Force, Command Sling, and Junker Stallion.

Furthering his education, Colonel Shoor undertook an MPH at the University of Utah and the Aerospace Medicine Residency Program at Brooks AFB, TX. Upon completion, he took the position of Chief of Aerospace Medicine at McGuire AFB, NJ, and later at Eielson AFB, AK. During these assignments, he had the pleasure of deploying as a flight surgeon for the 407th Medical Group, Tallil AB, Iraq, then Deputy Commander, 380th Medical Group, Al Dhafra AB, United Arab Emirates, and finally as Commander, 350th Civic Action Team, Camp Lemonnier (Combined Joint Task Force – Horn of Africa), Djibouti.

Most recently, Colonel Shoor was the Forward Air Forces Command Surgeon for the Central Command Theater. Prior to that he was the Command Surgeon for the DoD's premier PME school, the National Defense University and then stayed on to attend the Industrial College of the Armed Forces. His awards and decorations include the Defense Meritorious Service Medal, Meritorious Service Medal with one silver oak leaf cluster, Air Medal, Aerial Achievement

Medal, Joint Service Commendation Medal, Air Force Commendation Medal with three bronze oak leaf clusters, Air Force Achievement Medal with one bronze oak leaf cluster, and the Air Force Outstanding Unit Award with Valor, one silver and three bronze oak leaf clusters.

## Holland to Lead Aerospace Human Factors Association

Dwight Holland, M.D., Ph.D., is beginning a one-year term as the President of the Aerospace Human Factors Association. Dr. Holland is also the Past-President of both the



International Association of Military Flight Surgeon Pilots (IAMFSP) and Space Medicine Association.

Dwight is the Founder and a Principal of his consulting business in Systems Management/

Human Factors Engineering for over 20 years. He is a lieutenant colonel in the USAF Reserve who has been assigned to the 311th Human Systems Wing's Performance Enhancement Division at Brooks City-Base in San Antonio, the USN and USAF Test Pilot Schools (most recently as the IMA Deputy Director for the Education Division at Edwards), and now as the IMA to the Chief of the Warfighter Readiness Research Division at the 711th Human Performance Wing.

Dr. Holland holds Master's degrees in Geophysics, Systems Engineering, and a Ph.D. in Human Factors Engineering, all from Virginia Tech. Dr. Holland is a graduate of USAF Pilot Training and is a fully-qualified USAF Acquisitions Officer. He is a commercial type-rated jet pilot with over 2,000 hours of flight time in 35+ aircraft, including research flight test engineering work. He has also completed a Medical Doctor degree from the University of Virginia, and a Master's degree with a focus in Political Science and International Relations from Hollins University.

He has also served on a Geophysics research expedition to the Antarctic, living in harsh polar conditions in an unheated tent for three months, and managing the team's Gravity/Magnetics program, and first-ever GPS use in Antarctica for scientific study.

Dr. Holland has served as an instructor and curriculum co-developer in the crew systems interface area at the Navy Test Pilot School at Patuxent River, MD. He was the first-ever reserve instructor attached to the USN Test Pilot School. In the past he has been assigned to the USAF Office for Scientific Research (AFOSR) as an International Program Manager. In that assignment, he has also served as a USAF liaison to the Office of Naval Research for Internationally-related Bioterrorism issues and represented AFOSR and AFRL at the first high-level governmental anti-Bioterrorism Conference in the Western Hemisphere, and was a key S&T player in the outreach to Slovenia in 2002-04 as it transitioned to being a NATO State. During this

time he was selected by the SecAF/Acquisition team to moderate the high level brain-storming sessions on how to improve the systems engineering processes in the USAF Acquisitions system, and served as the Technical Co-Chair for the largest international Systems Engineering Conference held to date.

Dr. Holland has over 100 academic presentations and publications to his credit, including chairing over 50 scientific sessions at international scientific meetings. He served as one of several co-authors and research pilot on the AsMA 2005 Tuttle Award research team in the areas related to all-night flying fatigue. Dr. Holland's dissertation on dynamic peripheral visual acuity under various levels of workload and verbal intrusion earned him the 2002 Stanley N. Roscoe Award from the Aerospace Human Factors Association. He has won the Won Chuel Kay award for significant contributions to international aerospace medicine, and more recently was recognized by AsMA with the Sidney D. Leverett Environmental Medicine Award for his various contributions to Aerospace Systems development, including co-managing the first-ever dedicated high G prescribed flight test with real-time aircraft and pilot physiological monitoring for different regular and advanced "full coverage" G suit models. These flights and project were nominated by the USAF Test Pilot School for the international Collins Award, and won several flight test society awards for this team's research efforts. The NASA-sponsored book he, Pete Merlin, and Dr Gregg Bendrick co-authored "Breaking the Mishap Chain" (May 2012) received national acclaim after debuting at the AsMA May 2012 meeting, including featured mention in Smithsonian's Air and Space Magazine as a "book to buy."

Dr. Holland has served on the AsMA Executive Committee and Council and is now a Member-at-Large for 2014-2017. He has served the AsMA community on the Nominating Committee, on the AsMA Scientific Program Committee for nearly 20 years, and was the AsMA Awards Chair for 4 years.

## Folga Incoming Physiology Society President

CDR Richard V. Folga, USN, MSC, is the incoming President of the Aerospace



Physiology Society. He has been a member of AsMA since 1997 and a Fellow since 2009. He has co-authored presentations for more than 10 AsMA scientific meetings, and has chaired or co-chaired several panels. In addition, he has co-authored several articles published in *Aviation, Space, and Environmental Medicine*.

CDR Folga was commissioned in 1997 and completed Aerospace Physiology Training on June 26, 1998, in Pensacola, FL. His follow-on tours included Intern and assistant department head at ASTC Miramar; Aeromedical

*See FOLGA, p. 682.*



*FOLGA, from p. 682.*

Safety Officer at Marine Aircraft Group 16, MCAS Miramar; Aeromedical Safety Officer and Night Imaging and Threat Evaluation Lab Program Manager, Marine Aviation Weapons and Tactics Squadron One, MCAS Yuma, AZ; Director, Human Performance and Training Technology, Naval Survival Training Institute in Pensacola, FL; and Director, Aviation Survival Training Center, Whidbey Island. His current assignment is Department Head, Acceleration and Sensory Sciences, Naval Medical Research Unit Dayton.

CDR Folga completed board certification in aerospace physiology in May 2006 and served as the Chair of the Aerospace Medical Association (AsMA) Exam committee for board certification in aerospace physiology. He is Past President of the Society of U.S. Naval Aerospace Physiologists, and was the Naval Aerospace Physiology Program 2001 Aerospace Physiologist of the Year. In 2007, he was selected as the recipient of the Aerospace Physiology Society's Wiley Post Award for Operational Aerospace Physiology. In 2010, he was part of the SAFE Team Achievement award, recognized for his work in introducing the ROBD to the fleet and was the recipient of the 2013 Walter and Sylvia Goldenrath Award for the direct, positive impact his applied research has had on education and training in aerospace physiology worldwide.

## McKinley to Lead LSBEB

R. Andrew (Andy) McKinley, Ph.D., is the new president of the Life Sciences and Biomedical Engineering Branch (LSBEB). A



biomedical engineer, McKinley is the leader of the Non-Invasive Brain Stimulation (NIBS) Team in the Cognitive Performance Optimization Section, Applied Neuroscience Branch, Warfighter Interface Division,

Human Effectiveness Directorate at Wright-Patterson AFB, OH.

McKinley received his B.S. in Biomedical Engineering and his Ph.D. in Engineering from Wright State University, Dayton, OH. He attended an intensive course in transcranial magnetic stimulation at Harvard Medical School, Cambridge, MA, in March 2011.

Dr. McKinley's recent work, for which he received the 2011 Harry G. Moseley Award from AsMA, has centered on developing technologies to reduce mishaps resulting from rotary-wing brownout. As the Human Effectiveness Team Lead of the Air Force Research Laboratory's Rotary-wing Brownout countermeasures program, he and his team have been evaluating candidate technological solutions, including state-of-the-art symbology and sensors. He evaluated a new active laser-radar (LADAR) based system capable of producing a high-resolution image of the landing site both prior to and during the brownout event. By restoring the pilots' ability to see small obstacles and obstructions, this system substantially reduces brownout landing mishap risks and restores mission capability by allowing pilots to land even closer to their

objective. His research provided evidence of improved landing performance, lower subjective workload, higher handling qualities ratings, and lower perceived difficulty with the 3D-LZ LADAR system when compared to the baseline configuration (FLIR with symbology overlay).

An author or co-author on over 40 articles and presentations, Dr. McKinley has received the Alfred Gessow Forum Best Paper Award for 2010, the Grover E. Bell Award from the American Helicopter Society in 2010, the SAFE National Individual Achievement and the WBC Outstanding Engineer Awards both in 2009, as well as many special achievement and distinguished service awards.

He is a member of Aerospace Medical Association, Aerospace Human Factors Association, NATO RTO Task Group (HFM-162) – Rotary-wing Brownout Countermeasures, SAFE Association–Wright Brothers Chapter, and Order of the Engineer.

## Shiveley will Head SUSNFS

CAPT David L. Shiveley, MC, USN, will lead the Society of U.S. Naval Flight Surgeons for 2014-15. He is currently the Commander, Naval Air Forces, Force Surgeon, NAS North



Island, Coronado, CA, responsible for advising the Commander on all Health Service Support issues for the Naval Aviation Enterprise.

After receiving his BA from St. Michael's College in Winooski, VT, in 1977, he attended St. George's University

School of Medicine in Grenada and received his Medical Degree in 1982. He did his Internship in Internal Medicine at Mount Sinai Hospital in Hartford, Connecticut, from July 1982 to June 1983. He was commissioned in 1983 and commenced active duty. He received a Master of Public Health and Tropical Medicine from the Tulane School of Public Health and Tropical Medicine in New Orleans, LA, in 1990.

His first tour of duty was with the Marines as Battalion Surgeon of the Third Battalion, 9th Marines, 1st Marine Division at Camp Pendleton, CA, from 1983 to 1985. Subsequent tours included duty as a General Medical Officer at the Branch Medical Clinic, NAS Miramar, CA, and Senior Medical Officer aboard USS San Jose. In 1987, he attended Flight Surgeon School at the Naval Aerospace Medical Institute (NAMI), NAS Pensacola, FL. Next he served a 2-yr tour as Wing Flight Surgeon for Trawing Six in Pensacola, FL. From June 1989 to June 1992 he attended the Aerospace Medicine Residency at NAMI. From July 1992 to July 1994 he held the position of Senior Medical Officer aboard USS *America* (CV-66) and Battle Force Medical Officer for Carrier Group Six. His next position was Deputy Force Medical Officer, Commander Naval Air Force, Atlantic Fleet. Following this, he assumed the position of Fighter Wing Atlantic Senior Medical Officer (SMO) with additional duty as Strike Fighter Wing Atlantic SMO. Next, he was Second Fleet/Striking Fleet Atlantic Surgeon and was

the senior advisor for Health Services Doctrine in the Navy, Joint, and NATO environment, responsible for all medical plans, operations, and intelligence for Second Fleet and Striking Fleet. In 2003 he was assigned as the Officer-in-Charge of the Naval Ambulatory Care Center, New Orleans, LA, managing 3 clinics, serving 30,000 beneficiaries. After that he moved to United States Transportation Command, in the role of Command Surgeon, where he was the DoD Executive Agent for Global Patient Movement and was the first ever Navy physician to hold this important Combatant Command office beginning in 2005. In 2007 he became the Executive Officer for Naval Health Clinic, Quantico, VA. From July 2009 to June 2011, he was the Commanding Officer of Naval Hospital Lemoore, NAS Lemoore, CA, and from July 2011 to June 2013 he was NORAD/US-NORTHCOM Command Surgeon General where he was the chief medical advisor to the Commander on all Homeland Defense, Defense Support to Civil Authorities, and Theater Security Cooperation issues.

CAPT Shiveley is board certified by the American Board of Preventive Medicine (Aerospace Medicine) and is a Fellow in the American College of Healthcare Executives. He also holds certification as a trained Joint Task Force Surgeon. Among his awards and commendations are the Kuwaiti Liberation Medal, National Defense Service Medal with one star, Southwest Asia Medal with two stars, Armed Forces Expeditionary Medal, Navy Achievement Medal, Navy Commendation Medal, Meritorious Service Medal (Silver Star in lieu of 6 awards), Legion of Merit Medal, and Defense Superior Service Medal (with Oak Leaf Cluster).

## Tarver is Incoming Space Medicine Association President

William J. Tarver, M.D., M.P.H., is the new President of the Space Medicine Association. He is currently the deputy chief for the



Occupational Health Branch, Space and Clinical Operations Division, Human Health and Performance Directorate, at Johnson Space Center/NASA. In this job he assists the branch chief in managing an organization with approximately 60 personnel

and a \$16M budget. This branch is responsible for providing occupational health and industrial hygiene services to Johnson Space Center and as well as to satellite units at White Sands Test Facility near Las Cruces, NM, and in the Star City complex near Moscow, Russia. He serves as the center's chief occupational medicine physician and is responsible for managing the medical personnel and the quality of care provided through their clinical services. Their clinics provide care in general preventive medicine, occupational medicine, primary care, hyperbaric and space medicine.

Dr. Tarver received his undergraduate de-  
*See TARVER, p. 683.*

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gree from North Texas State University in 1984. He received his M.D. degree from the University of Texas Medical School in 1989 and his MPH from University of Texas School of Public Health in 1994. He was a resident in aerospace medicine and a resident in occupational medicine at the USAF School of Aerospace Medicine at Brooks AFB, TX. He was board certified in Aerospace Medicine in 1996 and in occupational medicine in 1997. He entered the Air Force in 1990, serving as Chief of Flight Medicine and then Chief of Aeromedical Services at Kelly AFB. He served as Flight Commander, 8th Aeromedical Services, Kunsan AB, Korea, and then as Associate Director, General Preventive Medicine, at the USAF School of Aerospace Medicine, Brooks AFB, TX. He was in private practice from 2000-2005 before joining NASA as Deputy Chief, Flight Medicine Clinic, at the Johnson Space Center.

In addition to the Space Medicine Association, he is also a member of the Society of NASA Flight Surgeons and the American Society of Aerospace Medicine Specialists, and has presented at several recent AsMA annual scientific meetings.

## Baker to lead USAF Flight Surgeons

Colonel (Dr.) Richard D. "Todd" Baker is the incoming president of the Society of U.S. Air Force Flight Surgeons. He is currently the Director of the Aerospace Medicine



Directorate at the Air Force Medical Operations Agency, Joint Base San Antonio, TX, where he is responsible for executing the Air Force Surgeon General's policies related to the Aerospace Medicine Enterprise and interpreting

those policies for major commands and medical treatment facilities. Colonel Baker is responsible for developing Bioenvironmental Engineering, Flight Medicine, and Public Health performance measures, collecting and analyzing installation-level data, assessing lessons learned, performing trend analysis, and identifying programmatic and policy implications of these to the Surgeon General.

Col. Baker was raised in Burlington, VT, and is a 1987 graduate of McGill University with subsequent degrees from the University of Vermont and the University of Utah. He completed a Family Practice Residency in 1995 at Albany Medical College, Albany, NY, and entered the Air Force where he served as a Family Practice Physician at Holloman Air Force Base, NM. Colonel Baker then completed two tours as a flight surgeon that cemented his desire to achieve addition training in the field of Aerospace Medicine. He has previously served two tours as base-level Chief of Aerospace Medicine, two tours as Squadron Commander, and one assignment as Chief of Flight Medicine, Headquarters Pacific Air Forces.

His awards and decorations include the Defense Meritorious Service Medal,

Meritorious Service Medal with four oak leaf clusters, and the Air Force Commendation Medal.

## Hughes Continues as Leader of IAMFSP

Lt. Col. Kathryn G. Hughes, USAF, MC, continues her second year as President of the International Association of Military Flight Surgeon Pilots (IAMFSP). She is currently the Commander of the 412th Aerospace Medicine Squadron, Edwards AFB, CA. Lt. Col. Hughes is a command pilot and senior flight surgeon with over 3,000 hours and is one of the Air Force's few pilot-physicians.

Her awards include the Meritorious Service Medal with oak leaf cluster, the Air Force Commendation Medal with oak leaf cluster, the National Defense Service Medal with bronze star, the Humanitarian Service Medal, the Military Outstanding Volunteer Service Medal, and the NATO Medal. She is a member of the Royal Aeronautical Society, the International Association of Military Flight Surgeon Pilots, Women Military Aviators, Order of the Daedalians, the 99s: International Organization of Women Pilots, the Experimental Aircraft Association, and the Society of U.S. Air Force Flight Surgeons. She is a Fellow of the Aerospace Medical Association and was a recipient of AsMA's Harry G. Moseley Award in 2009.

## Spanish Air Force Opens New Aeromedical Center

On the 3rd of March 2014, the Spanish Air Force Aeromedical Center began operations in the new facility located in Torrejón AB, just 20 km east of Madrid, Spain. Plans to set up the Center had been arranged step by step for the last 5 years, from technical requirements, design, contract, credentials and new chain of command. The new Institute/Aeromedical Center has been designed to hold a wide range of capabilities and aviation state of the art tools for the next 25 years. The first area available was the clinical department, devoted to aeromedical certification, either military or civilian.

The old altitude chamber has been moved and a new hypobaric facility was delivered in April 2014. Both labs, the old altitude chamber, and the new one will be devoted to a wide range of activities, such as aircrew training, research, and onboard equipment certification. In addition, the Night Lab has been updated with new capabilities and a computer network setting has been established.

The new facility includes the opening of three new labs that will be set up in the near future. The new laboratories will be devoted to testing normobaric hypoxia, ergonomics, and flight equipment testing. Plans are to bring all of them into operation throughout 2014-2015.

This is a big step for the National and International Community devoted to Military and Civil Aviation. The new Institute/Aeromedical Center will be able to project and spread state of the art aviation medical resources, instruction, and research that no doubt will be beneficial for Spain, NATO, and worldwide allied countries, especially for all nations of Latin America.

## Meetings Calendar

**June 23-27, 2013; Flying Physicians Association 2013 Annual Meeting; Hyatt Milwaukee Hotel; Milwaukee, WI.** Please visit [www.fpadrs.org](http://www.fpadrs.org) for details and registration information.

**August 25-28, 2014; The 9th Asia Pacific Congress of Aerospace of Medicine** in conjunction with the 10th Chinese Conference of Aerospace Medicine; Beijing, China. For more information, please contact Prof. Wang Zhixiang or visit <http://www.apfama.org/2014>

**September 11-4, 2013; XXVI National Congress of AIMAS, held jointly with the European Low Gravity Research Association's (ELGRA's) biennial symposium; Vatican City, Italy.** For more information, please contact Maj. Paola Verde or visit [www.aimas.it](http://www.aimas.it) or [www.elgra.org](http://www.elgra.org).

**September 19-22, 2013; Flying Physicians Association Northeast Chapter meeting; Radisson Hotel, Corning, NY.** Please visit [www.fpadrs.org](http://www.fpadrs.org) for details and registration information.

**October 6-10, 2013; 61st International Congress of Aviation and Space Medicine (ICASM); Jerusalem, Israel.** For more information, please visit <http://www.icasm2013.org/>.

**October 10-13, 2013; Flying Physicians Association Great Lakes Chapter Fall Meeting; Morris Inn, University of Notre Dame, South Bend, IN.** Please visit [www.fpadrs.org](http://www.fpadrs.org) for details and registration information.

**October 17-20, 2013; Flying Physicians Association Dixie Chapter Fall Meeting; Perdido Beach Hotel, Orange Beach, AL.** Please visit [www.fpadrs.org](http://www.fpadrs.org) for details and registration information.

**October 31 - November 3, 2013; Flying Physicians Association Western/Southwest Chapters Joint Fall Meeting (tentative); Fort Worth, TX.** Please visit [www.fpadrs.org](http://www.fpadrs.org) for details and registration information.

## Future AsMA Annual Scientific Meetings

May 10-14, 2015  
Walt Disney World  
Swan & Dolphin Resort  
Orlando, FL

April 24-28, 2016  
Harrah's Resort  
Atlantic City, NJ

April 29 - May 4, 2017  
Sheraton Denver Downtown  
Hotel Denver, CO

May 6-10, 2018  
Hilton Anatole Hotel  
Dallas, TX





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## NEWS OF CORPORATE MEMBERS

### IFALPA Presents Cathay Pacific Pilots with Polaris Award

The International Federation of Air Line Pilots' Associations (IFALPA), in conjunction with the Hong Kong Airline Pilots Association (HKALPA), is proud to announce that IFALPA's Polaris Award was presented to two of its members, Captain Malcolm Waters and First Officer David Hayhoe, at the IFALPA Annual Conference in Panama on 29 March 2014. The Polaris Award is the highest honor associated with civil aviation awarded by IFALPA. It is presented to airline crews in recognition for acts of exceptional airmanship, heroic action, or a combination of these two attributes.

On 13 April 2010, Captain Waters and First Officer Hayhoe, in a twin engine A330, were faced with a totally unexpected inflight emergency involving loss of power on one engine and degraded power on the other. In addition, they had no control over the amount of thrust produced by the operating engine and indications on the flight deck gave no clue as to what the problem was or how to resolve it. Throughout the emergency, they acted with calmness and professionalism, keeping the cabin crew, passengers, and ATC aware of their situation whilst handling a complex and unforeseen emergency, and piloting the aircraft in a critical situation. As a direct result of Captain Waters' and First Officer Hayhoe's professionalism and skill, the flight ended with a safe landing from a situation which could easily have produced a far worse outcome. Presenting the award, IFALPA President Captain Don Wykoff praised Malcolm and Dave in undoubtedly saving many lives and acting in a manner to which all professional pilots could aspire.

—<http://www.ifalpa.org/downloads/Level1/Press%20&%20Media/2014/14PRL05%20-%20Cathay%20Pilots%20Receive%20IFALPA%27s%20Polaris%20Award.pdf> (pdf file).

### ALPA's First Vice President Appointed to TSA Aviation Security Advisory Committee

The Air Line Pilots Association, Int'l (ALPA), recently issued a statement after Transportation Security Administration (TSA) Administrator John S. Pistole announced the appointment of the Association's first vice president and national safety coordinator, Capt. Sean Cassidy, to the TSA's Aviation Security Advisory Committee (ASAC).

"We applaud Capt. Sean Cassidy on his appointment to the committee. Capt. Cassidy's operational expertise will enable the TSA to be even better equipped to continue its mission to further improve security methods, equipment, and procedures within the U.S. aviation industry. ALPA commends DHS Secretary Jeh Johnson for his outstanding selection of new ASAC members, including several leaders in the aviation industry. Capt. Cassidy will bring with him a wide range of experience as an

airline pilot, aviation safety expert, and head at the world's largest nongovernmental aviation safety organization. We look forward to seeing his contribution to TSA's efforts to improve the effectiveness of risk-based security procedures and further develop recommendations for improvements to aviation security methods at passenger and all-cargo airlines."

—[http://www.alpa.org/Portals/Alpa/PressRoom/PressReleases/2014/4-17-14\\_14.33.htm](http://www.alpa.org/Portals/Alpa/PressRoom/PressReleases/2014/4-17-14_14.33.htm).

### AOPA to Hold 1-Day Regional Fly-Ins

For the first time in its 75-year history, the Aircraft Owners and Pilots Association (AOPA) will meet its members where they fly and share the joy of flight at a series of 1-day regional fly-ins. Throughout 2014, these fly-in events will be held at six of the nation's friendliest airports. AOPA Fly-Ins will include aviation activities, exhibits and seminars, a couple of meals, and the chance to build relationships, activities designed to bring pilots and AOPA together around a common love of flying. More information and the schedule for these fly-ins can be found at [www.aopa.org/Community-and-Events/AOPA-Fly-Ins.aspx](http://www.aopa.org/Community-and-Events/AOPA-Fly-Ins.aspx).

### Oregon Aero Update Eliminates Cessna Seat Replacement Requirement

After extensive funding, research, and development on the part of Oregon Aero, Inc., owners of Cessna (formerly known as Lancair or Columbia) aircraft outfitted with Oregon Aero® High-G® Safety Seats no longer have to replace the seat cushions every 5 years or 2,500 hours as formerly mandated by the FAA. Owners can now conduct annual inspections and one more detailed inspection every 3 years to assess the cushions. Before the update, which was completed in conjunction with the Seattle Aircraft Certification Office, owners of specified Cessna models faced an FAA-imposed life limitation on their Oregon Aero® High-G® Safety Seat cushions of 5 years or 2,500 hours. To accommodate customers, Oregon Aero and Cessna have shared the costs of replacing cushions affected by the life limitation since 2011, though customers had to remove the seat cushions themselves and keep their aircraft out of service in the interim. To improve the customer experience while also maintaining quality, safety, and value, Oregon Aero funded the research and development behind the recent update.

—<http://www.oregonaero.com/press-releases/oregon-aero-update-eliminates-seat-replacement-requirement-cessna-owners>.

### United Announces MileagePlus Carbon-Offset Program

In celebration of Earth Month, United Airlines recently announced an enhancement to its carbon-offset program that allows MileagePlus members to redeem their miles for offsets to cover the carbon emissions

associated with their air travel. The company's existing program provides all United customers the opportunity to calculate and purchase offsets for their travel and cargo shipments, and now customers can use their frequent flyer miles to help the environment. The new carbon-offset mileage-redemption program, the first of its kind to be offered by a U.S. carrier, supports projects that benefit renewable wind-power generation and forest conservation. When MileagePlus customers choose to offset their emissions after booking on United.com, they may select from a list of United Eco-Skies partners to redeem their miles for the offset. United has been leader in innovative carbon-offset solutions and, late last year, became the first U.S. carrier to offer its customers a cargo-emissions calculator. The airline's carbon-offset solutions are designed in collaboration with Sustainable Travel International, a leading global non-governmental organization that specializes in innovative sustainable tourism and conservation solutions for destinations, businesses and travelers.

—<http://newsroom.unitedcontinentalholdings.com/2014-04-15-United-MileagePlus-Customers-Can-Use-Their-Miles-To-Help-the-Environment>.

### Spectrum Aeromed CEO Wins ND Small Business Person of the Year

Spectrum Aeromed announced that their CEO, Dean Atchison, was named North Dakota Small Business Person of the Year by the U.S. Small Business Administration. This is the 3rd award honoring Dean Atchison and Spectrum Aeromed in the past year. In August Spectrum Aeromed made the Inc 500/5000 Fast Growing Companies for the third year in a row and in February Spectrum Aeromed was honored a 2014 U.S. Chamber of Commerce Small Business of the Year Blue Ribbon Award. Small Business Person of the Year winners from the 50 states, the District of Columbia, Puerto Rico and Guam will gather in Washington during National Small Business Week where one of them will be selected as the 2014 National Small Business Person of the Year.

—<http://spectrum-aeromed.com/dean-atchison-ceo-spectrum-aeromed-wins-north-dakota-small-business-person-year/>.

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Send information for publication on this page to: **News of Members**  
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## Dervay Quoted in Newspaper Article

Dr. Joseph Dervay, a long-time member and Fellow of AsMA, was recently quoted in an article in the *Waco Herald-Tribune*:



"Figuring out treatment options for a patient can be tedious, and caring for one who is in a spacecraft hundreds of miles above Earth for months at a time poses a unique and daunting set of challenges.

"Really, what we are trying to do is help protect the health of the men and women who are willingly going into space doing work on behalf of all mankind," said Dr. Joseph Dervay, a flight surgeon for the Johnson Space Center in Houston. Dervay spoke of his 18 years of working in space medicine at a lecture Monday evening for pre-health students at Baylor University."

To read the rest of this story, please visit [http://www.wacotrib.com/news/higher\\_education/nasa-surgeon-discusses-space-medicine-career-with-baylor-health-students/article\\_58696d64-a6b3-5af0-9b83-cbcd85b8d005.html](http://www.wacotrib.com/news/higher_education/nasa-surgeon-discusses-space-medicine-career-with-baylor-health-students/article_58696d64-a6b3-5af0-9b83-cbcd85b8d005.html).

## Li Appointed Editor-in-Chief of Injury Epidemiology

Guohua Li, M.D., Dr.P.H., was appointed as the founding Editor-in-Chief of *Injury Epidemiology*, a new academic journal launched by Columbia University in partnership with Springer. Dr. Li is a Fellow of AsMA and has served on AsMA's Aerospace Safety and Aerospace Human Factors Committees. He is also a member of the Aerospace Human Factors Association.



*Injury Epidemiology's* editorial mission is to advance the science and practice of injury prevention and control through timely publication and dissemination of peer-reviewed research. The editorial board of *Injury Epidemiology* includes two additional AsMA Fellows, Drs. Susan P. Baker and Dennis F. Shanahan. Articles in the inaugural issue of *Injury Epidemiology* are accessible at [www.injijournal.com](http://www.injijournal.com).

Dr. Abdulrazzaq Najim Abed from Baghdad, Iraq, was promoted last July 2013 from colonel to Brigadier General (Dr.). He has been a member since 2008.

## Obituary Listing

AsMA recently learned that **John C. Guignard, M.B., Ch.B.**, died in August 2013.

A native of the United Kingdom, Dr. Guignard earned his medical degree from the University of Edinburgh in Scotland in 1955. He served in active duty in the Royal Air Force (RAF) Medical Branch from 1957-1961. Until 1967, he was at the RAF Institute of Aviation Medicine, where he specialized in the effects of vibration, motion, and noise from aviation and ships on people. He then moved to the Institute of Sound and Vibration Research at the University of Southampton, where he founded the Human Factors Research Unit. He also established Bachelors and Masters courses in human factors for engineering students. He moved to the United States in 1969, where he continued to research the effects of vibration, noise, and combined stress for the U.S. Air Force Aerospace Medical Research Laboratory. He was appointed Research Medical Officer at the Naval Biodynamics Laboratory in 1975, where he studied human motion and vibration. He was a U.S. delegate to ISO Technical Committee 108, Subcommittee 4; Chair of the Working Group on Biodynamic Terminology; a Fellow of the Royal Society of Medicine (UK); and a member of the Acoustical Society of America, the Ergonomics Society (now the Institute of Ergonomics and Human Factors), and the Aerospace Medical Association. He was the author of a number of articles and research papers and was involved in national and international efforts to evaluate standards for human exposure to mechanical vibration and shock.

## New Members

- Abdelghany, Ashraf, Quwesna, Egypt
- Al Jalaud, Abdullah, Dr., Khobar, Saudi Arabia
- Bey, Christophe, Bordeaux, France
- Bonetti, Darrell, Ph.D., Auckland, New Zealand
- Brown, Michelle R., Lt. Col., M.D., USAF, Branford, CT
- Condino, Jason J., M.D., Ridgecrest, CA
- Connolly III, Joseph, Col., USAF, Wright-Patterson AFB, OH
- Dietrich, David R., M.D., Panama City, FL
- Donnelly-Boylan, Kevin M., Dr., Boston, MA
- Driscoll, Sean M., LT, M.D., USN, San Diego, CA
- Dyckman, Damian, LCDR, M.D., Ph.D., USN, San Diego, CA
- Fattell, Corinne, Dr., Paris, France
- Feberg, Sanna, Ms., Kouvola, Finland
- Gubin, Mortin L., B.S., M.D., Palm Springs, CA
- Hayes, Andrew M., LCDR, USN, Havelock, NC
- Junker, Andrea, Dr., London, United Kingdom
- Keita, Karounka, Avondale, AZ
- Leiva, Daniel F., Windermere, FL
- Lemoine, Amberley, B.S., Windermere, FL
- Maghami, Saavash, B.Med., M.B., B.S., Mt. Pleasant, Australia
- McCormick, Thomas K., M.D., Mount Sterling, KY
- Miguel, Yasmine, Ottawa, Ontario, Canada
- Morton-Short, Kim R., Sqn. Ldr., RAAF, M.B.B.S., Pullenvale, Queensland, Australia

- Munkeby, Berit H., Dr., Blindern, Oslo, Norway
- Oladele, Babatunde A., Dr., Doha, Qatar
- Petersen, Eric, Centennial, CO
- Shealy, Charlotte A., Maj., FS, Colorado Springs, CO
- Sherman, Paul M., Capt., USAF, SFS, MC, Boerne, TX
- Thierry, Fehr, Dr., Villepreux, France
- Valade, Serge, Capt., Mississauga, Ontario, Canada
- Wang, Jennie M. P., M.D., Glastonbury, CT
- Wong, Yuan Sy, Dr., Singapore, Singapore

## Check out AsMA's Award-Winning Website! [www.asma.org](http://www.asma.org)

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Members can log into the Members Only page to access both the archives and the online journal as a benefit! Non-members may access the online journal and the archives through the journal page: [www.asma.org/publications/asm-journal/read-the-journal](http://www.asma.org/publications/asm-journal/read-the-journal).

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