



Ever Upward: January 2015

AsMA Executive Director Interviewed Twice

Jeff Sventek, M.S., CASp, AsMA's Executive Director, was interviewed twice in November. The first interview was for an article on the pilot that survived the crash of Virgin Galactic's SpaceShipTwo. More can be read on Bloomberg's site: <http://www.bloomberg.com/news/2014-11-12/pilot-who-survived-spacecraft-crash-says-parachute-opened-itself.html>.

The second interview was with the Huffington Post for an article on how flying affects the human body. That story can be read at http://www.huffingtonpost.com/2014/11/04/body-on-a-plane_n_6100908.html.

2014 AsMA Fellows Scholarship Winner

The AsMA Fellows Scholarship Committee is pleased to announce their selection of the winner of the 2014 scholarship. Brandon Richard Macias, Ph.D., won the scholarship for his presentation and publication of a manuscript on "Intraocular and Intracranial Pressures during Head-Down-Tilt with Lower Body Negative Pressure."



The \$2,000 AsMA Fellows Scholarship is funded by the AsMA Foundation and is presented annually to an AsMA member who is a student in an aerospace medicine residency program, graduate program in aerospace medicine (Master or Ph.D.), medical certificate or aerospace diploma course, or in a full time education/training program in the allied fields of nursing, physiology, human factors, psychology, ergonomics, and engineering. Selection criteria include delivering a slide or poster presentation as a first author at the AsMA Annual Scientific Meeting and then submitting a manuscript as first author for publication in Aviation, Space, and Environmental Medicine based on the same topic and/or material covered in the slide or poster presentation. The winner is selected by the AsMA Fellows Scholarship Committee based on the high scientific value, originality, quality and relevance of the candidates' presentations and published manuscripts.

Ten Presidents Gathered at ICASM

This past October, nine past Presidents of the International Academy of Aviation and Space Medicine (IAASM) along with the current president gathered for a photo during the International Congress of Aviation and Space Medicine (ICASM). All are AsMA Fellows and many are past presidents of AsMA.



Sitting from left to right: Dr. Ulf Balldin (2001-2003); Dr. Luis Amezcua-Gonzales (1983-1985); Dr. Charles A. Berry (1973-1975), who received the First Charles A. Berry Award established by the Academy this

year "for outstanding personal contributions to the advancement of international aerospace medicine and to the Academy"; Dr. Daniel B. Lestage (current President); Dr. Silvio Finkelstein (1991-1993); Dr. Anthony Batchelor (2011-2013); Dr. Yehezkel Caine (2007-2009); Dr. Frank Pettyjohn (2005-2007); Dr. Claude Thibeault (1999-2001); and Dr. Michael Berry (2009-2011).

Annicelli Visits with Yeager



Lt. Col. Lance Annicelli, USAF, AsMA Fellow, on the right in the photo, visited with Brig. Gen. (Ret.) Chuck Yeager, on the left, in October at Beale AFB. He spent a memorable afternoon discussing Yeager's exploits flying the P-51 throughout Europe.

News of Members

Chris M. Front, Psy.D., ABAP, a clinical psychologist at the Federal Aviation Administration and an Associate Fellow of AsMA, was recently elected a Fellow of the Society for Personality Assessment (SPA). He has also become a Diplomate of the American Board of Assessment Psychology (ABAP). He began this year by adding a tailwheel endorsement to his private pilot certificate and has taken aerobatic training. He is currently taking advantage of his GI Bill for training toward a commercial certificate with instrument and multi-engine ratings.

New Members

Alshahrani, Ali M., Maj., RSAF, M.D., Saudi Arabia
Anell, Rickard K. J., Maj., SAF, FS, Mantorp, Sweden
Bradley, John, O.D., Beaver Creek, OH
Brooks, Tyler D. P., Maj., CAF, D.Av.Med., Ottawa, Ontario, Canada
Cho, Steven C., M.D., Central Hong Kong, Hong Kong
Eckelmann, Bradley J., B.A., Bryan, TX
Freeland, Jeffrey J., Col., USAF, Honolulu, HI
Grisham, William L., LT, USN, P.A., Pensacola, FL
Levy, Benjamin S., Capt., USAF, D.O., Wilmington, DE
Livingston, Elizabeth A., Paddington, NSW, Australia
Moon, Shannon M., Kissimmee, FL
Moutevelis, Vasileios, Capt., HAF, M.D., Kalamata, Messinia, Greece
Mullock, Dallas, Maj., CMS IV, Kirksville, MO
Munoz, Gilberto, M.D., Chicago, IL
Rabens, Clayton, Dr., Valdosta, GA
Reddy, Curran, B.A., College Station, TX
Robinett, Louis R., III, M.D., Baltimore, MD
Rohena, Fabian J., Pensacola, FL
Sullivan, Mary A., LT, FS, USN, Pensacola, FL
Wightman, John M., Col., USAF, M.D., Beaver Creek, OH
Williams, Charles B., Dr., Fort Worth, TX

In Memoriam: Arleen Saenger

AsMA was deeply saddened to learn of the death of Arleen Saenger, M.D., M.P.H. She was a long-time member and a Fellow of AsMA who had served on the Scientific Program, Registration, and Executive Committees. She had also served on the Council as Secretary and then as the Panels Chair and later the Scientific Program Chair for the Annual Scientific Meeting in 2012.

Born in Texas, Dr. Saenger received a B.S. from the University of California at Davis (UCD) in 1975 and an M.D., also from UCD, in 1979.

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She then served an internship at Sacred Heart Medical Center in 1980. Following that, she entered the Air Force, completing the Aerospace Medicine Primary Course later in 1980, and was assigned to Norton AFB, CA, as a flight surgeon. In 1982, she became Chief of Flight Medicine. She was then stationed at Rhein-Main AB Clinic in Germany in 1985, becoming Chief of Aeromedical Services in 1987.

In 1988, Dr. Saenger was assigned to Travis AFB, CA, serving as Chief of Flight Medicine at David Grant Medical Center. From 1992 to 1995, she served as Chief of the Aeromedical Evacuation Branch, Professional Services Directorate, Office of the Command Surgeon, Air Mobility Command, Scott AFB, IL. She also served as an Aeromedical Evacuation Consultant to Global Patient Movement Requirements Center, USTRANSCOM. She completed an M.P.H. at Saint Louis University, St. Louis, MO, in 1996. From 1996-1998, she took the Residency in Aerospace Medicine (RAM) program at Brooks City-Base, TX. After she completed the RAM program, she became Chief of Physical Standards, Aerospace Medicine Division, Air Force Medical Operations Agency, Office of the Surgeon General, Bolling AFB, DC.

Dr. Saenger retired from the U.S. Air Force as a Colonel and joined the Federal Aviation Administration (FAA), where she became manager of the FAA's Aeromedical Policy and Standards Branch in Washington, DC. She received a meritorious achievement award from the U.S. Department of Transportation (DOT) for her extraordinary contributions to the safety mission of the Office of Aerospace Medicine in 2014. Her other awards included the Meritorious Service Medal with three oak leaf clusters, the National Defense Medal, and the Marksmanship Ribbon.

In Memoriam: Surgeon General aD Prof. Dr. Eduard C. Burchard

AsMA was saddened to learn of the death of Surgeon General aD Prof. Dr. Eduard C. Burchard, General (Ret.), German Air Force. Born in Fulda, Hesse, Germany, Dr. Burchard studied classic and modern languages and philosophy at the Universities of Mainz and Munich and medicine at the University of Frankfurt, Main. He received an M.D. in 1960 and served as



an intern at the Youngstown Hospital Association in Youngstown, OH, after passing the ECFMG exam. After serving for a year at the city hospital in Offenbach, Main, he joined the German Air Force in 1962. He attended the Basic Course for Medical Officers at the Federal Armed Forces Medical College in Munich and was then assigned as a medical officer of the Medical Squadron at Flying Training School "A" in Landsberg, Lech.

In 1964, Dr. Burchard was the first medical officer in the German Air Force to receive training as a jet pilot in high performance aircraft. Later that year, he became Head of the Physiological Training Unit at the German Air Force (GAF) Institute of Aerospace Medicine (IAM). In 1966, he took the Basic Course for Flight Surgeons at the GAF IAM, continuing there as an instructor in aviation physiology afterwards. He attended the Advanced Course for Flight Surgeons in 1967 at the USAF School of Aerospace Medicine, Brooks City-Base, TX. He then served in a variety of positions, including Head of Aviation Physiology at the GAF IAM; flight surgeon at the 32nd Fighter Bomber Wing in Lager Lechfeld; member of the Flight Crew Health Section, Life Sciences Directorate, NASA Johnson Space Center, Houston, TX; Head of the Academic Section of Division II, GAF IAM; Division Medical Officer, 3rd Air Force Division, Kalkar, Lower Rhein; and Head of Division III "Experimental Physiology of Flight" and later Head of Division I "Aeromedical Examination" at the GAF IAM. In 1981, he became Commander of the GAF IAM in Fürstenfeldbruck, Germany. He was appointed Honorary Professor of Aviation and Aerospace Medicine at the University of Technology, Munich, Germany, in 1987.

Dr. Burchard was a member of the Aerospace Medical Panel of AGARD/NATO, the International Academy of Astronautics, the International Academy of Aviation and Space Medicine, the Executive Council of the German Aerospace Medical Association, the Advisory Committee for Biology/Medicine of the Federal Minister for Research and Technology, and served as a consultant to the European Space Agency. He was an Honorary Member of the German Rocket Society and a holder of their Hermann Oberth Medal. He was a Fellow of the Aerospace Medical Association. He was awarded the Hubertus Strughold Award from the Space Medicine Association in 1989. His other awards included the NASA Certificate of Commendation, several Group Achievement Awards, and the USAF Badges for Senior Flight Surgeon and Chief Flight Surgeon.

NEWS OF CORPORATE MEMBERS

Air Canada Expands Dreamliners to More Asian Routes

Air Canada recently announced it will expand the introduction of Boeing 787 Dreamliner aircraft to more of its routes to Asia from Vancouver, including Beijing in February and Seoul in March 2015. Air Canada recently converted its Vancouver-Shanghai route to the 787 Dreamliner service, with Vancouver-Tokyo/Narita to be converted mid-December. For a virtual tour of the aircraft, you can visit 787.aircanada.com. The fuel efficient Boeing 787 Dreamliners opens up opportunities for Air Canada to serve new international destinations and convert existing routes to Dreamliner service as the airline replaces existing Boeing 767 aircraft with the new Boeing 787 fleet. Air Canada's first new route to be operated with the 787 Dreamliner was Toronto-Tokyo/Haneda in July, followed by the conversion of the airline's Toronto-Tel Aviv route to 787 Dreamliner service in August.

—Please visit <http://aircanada.mediaroom.com/index.php?s=43&item=832> to read more about this.

AOPA Reports a Successful 2014

The Aircraft Owners and Pilots Association's (AOPA's) advocacy team have worked hard during 2014 to reduce the cost of flying—winning sales tax exemptions on maintenance in Missouri and New Mexico, broadening the exemption won last year in Indiana to cover all aircraft in the state, and reducing taxes on amateur-built aircraft in Kansas and South Dakota. Over the past 2 years, AOPA has played a leading role in promoting tax exemptions and defeating tax increases, saving aircraft owners and pilots hundreds of dollars annually. Additionally, they worked to keep aviation safe and accessible—winning legislation that ensured appropriate land

uses around public-use airports, creating liability protections for private airstrips that are open to the public for recreational use, and requiring the marking and charting of low-altitude tower hazards. Airport protection remains AOPA's top priority as they work to promote and defend the nation's community airports—many of which faced possible closure, bad land-use decisions, or operational restrictions. AOPA's staff worked with more than 2,500 Airport Support Network volunteers and other airport supporters, responding to more than 700 airport issues this year.

—Please see <http://www.aopa.org/News-and-Video/All-News/2014/December/Pilot/mnn> for more on this.

Baxter Employee Helps Artisans Out of Poverty

Keyne Monson, Baxter vice president of market development at Baxter, and his wife Kirsten have created a website and non-profit organization, Elevita, to help alleviate poverty worldwide by creating economic opportunities for under-privileged people in developing countries by bringing their skills and creations to market. Over the past 4 years, Elevita has enabled more than 500 artisans to earn an increased income, which has had a ripple effect on their families and communities. Keyne and Kirsten are helped by a group of unpaid volunteers and advisors, including their six children. Any profits are donated to humanitarian projects, particularly in education. Proceeds have helped fund projects such as a hostel where rural girls in Rajasthan, India can stay safely while attending secondary school (planned to help 200 girls each year for four years); scholarships through a partnership with BELIEVE to 5 girls in the Philippines so that they can attend both secondary school and college (total of 8 years of education); purchasing sewing machines for women in Cambodia so that they can become self-reliant; and purchasing an industrial oven in the Philip-pines that allows dozens of

local women to bake capiz shells for creating bowls, frames, jewelry, and other wares.

—Please see http://www.baxter.com/press_room/features/2014/levita.html to read more about this.

IFALPA Committees Meet at ALPA

Several standing committees of the International Federation of Air Line Pilots' Associations (IFALPA) met at the Air Line Pilots Association's (ALPA's) Herndon, VA, offices in November to discuss policy matters and share information. The Federation's Industrial Committee received a briefing from ALPA Sr. Attorney Russ Bailey, who reviewed the International Civil Aviation Organization's (ICAO) increasing interest in market liberalization and other economic issues—new concerns for an agency traditionally focused on safety, security, and environment. A group of ICAO member states are urging the agency to draft a model air services agreement that would scrap current airline ownership and control policies and replace them with principal-place-of-business language. Other IFALPA Committees meeting in Herndon included Legal and Administration & Finance.

—Go to http://www.alpa.org/portals/alpa/fastread/2014/docs/11-13-14_IFALPA.htm to read more.

AMAS's President & CEO Wins Meritorious Service Award

AMAS's President and CEO, Dr Quay Snyder, was presented with the NBAA Safety Committee's first Meritorious Service Award in October. Dr. Snyder has served on the NBAA's Safety Committee since 2003. He previously worked on the Single Pilot Safety working group, the Fatigue Duty/Rest Guidelines working group, and currently chairs the Fitness for Duty working group, a safety focus area for NBAA through 2016. He has also been appointed to the newly formed working group on Part 91.211 supplemental oxygen requirements. Dr. Snyder also gave several presentations on behalf of the NBAA Safety Committee during the NBAA Business Aviation Convention and Exhibition.

—Please visit <https://www.aviationmedicine.com/amas-notams/latest-amas-news/> for more on this.

NIOSH Proposal Available for Public Comment

The National Institute for Occupational Safety and Health (NIOSH) Office for Total Worker Health™ has proposed a National Occupational Research Agenda (NORA) meant to stimulate innovative research, practical applications, policy guidance, and capacity-building of health protection and health promotion practitioners across the Nation. The draft agenda is available for public comment, until closing of the federal docket on December 22, 2014, 11:59 pm EST. Stakeholders are invited to provide input on the top priority research, practice, and policy issues to include in the Proposed National Total Worker Health™ Agenda to help improve integrated workplace practices, prevent worker injury and illness, and advance worker safety, health, and well-being. The NIOSH Total Worker Health™ program is guided by the vision that both work-related factors and health factors beyond the workplace jointly contribute to many safety and health problems that confront today's workers and their families. Its perspective is a broad-based, integrated approach and includes issues related to protecting the safety and health of workers in the work environment, preserving human resources through employment practices, and promoting health and well-being for individual workers.

—Please visit <http://www.cdc.gov/niosh/updates/upd-11-13-14.html> to learn more.

Mayo Study Shows Promise for Drug Combo

The investigational drug ixazomib taken orally in combination with lenalidomide and dexamethasone shows promise in patients with newly diagnosed multiple myeloma, according to the results of a phase 1/2 study published in the journal *Lancet Oncology*. Dr. Kumar and colleagues enrolled 65 patients (15 to phase 1 and 50 to phase 2) between November 2010 and February 2012. Researchers established 2.97 mg/m² as the maximum tolerated dose of ixazomib and recommended the phase 2 dose should be 2.23 mg/m², which was converted to a 4.0 mg fixed dose based on population pharmacokinetic results. There were 41 grade 3 or higher adverse events reported, including skin and subcutaneous tissue disorders

neutropenia and thrombocytopenia and drug-related peripheral neuropathy. Five patients discontinued therapy because of adverse events. In 64 response-evaluable patients, 59 (92 percent) had a partial response, including 37 who had a very good partial response or better.

—Go to <http://newsnetwork.mayoclinic.org/discussion/investigational-oral-drug-combo-shows-promise-for-newly-diagnosed-multiple-myeloma-in-mayo-clinic-le/#more-54280> to read more about this.

SAA Tests Emergency Response Procedures

South African Airways (SAA) recently concluded an exercise which was designed to test the emergency response procedures of the airline. The exercise, code named Exercise Thumba, was intended to assess the airline's readiness in case of an aviation emergency and test its preparedness. Various departments within the airline had their emergency response plans put to the test and the exercise also enabled the airline as a whole to have its systems and procedures tested against other aviation and security entities that also participated. Exercise Thumba also tested SAA's Safety, Security and Business Continuity readiness to respond to a number of different simulated scenarios at the OR Tambo International Airport. The simulation scenarios included a loss of communication with an aircraft en-route to its destination, a hijack with fatalities, and a case of suspected communicable disease on board the aircraft.

—Please see <http://www.flysaa.com/us/en/flyingSAA/News/South-African-Airways-concludes-emergency-exercise.html> for more on this.

United Introduces Mileage Plus Mobil App

United Airlines is offering a test group of MileagePlus members a new, convenient way to pay for in-store purchases and earn up to 24 award miles per dollar spent with a special preview of the MileagePlus X mobile app. United is inviting a group of MileagePlus members with iOS and Android mobile devices to download the app, which lets members use their smartphones for in-store purchases at national retailers, including Lowe's, Sears, Gap, and AMC Theaters. The airline plans to expand MileagePlus X to all members and offer more retailers soon. The MileagePlus X app enables customers to find nearby participating retailers and view the amount of miles they can earn at more than 50,000 locations. Customers can also browse a catalog of all merchants or search for specific stores.

—For more, visit <http://newsroom.unitedcontinentalholdings.com/2014-11-24-United-MileagePlus-Introduces-MileagePlus-X-Mobile-App-for-In-Store-Purchases>.

Corporate News Bites

ETC: Environmental Tectonics Corporation (ETC) recently announced Kenneth L. Ginader, CAPT, USN (Ret.), Director of Business Development for Tactical Flight Training Systems, is scheduled in December to give a presentation titled "Dynamic Flight Simulation: 45 Years of Research and Development" as part of a series entitled "Best Simulator Technologies Ever" at the NTSA's IITSEC Conference in Orlando, FL. For more details on this, please see <https://www.etcusa.com/etcs-director-of-business-development-for-tactical-flight-training-systems-kenneth-l-ginader-capt-usn-ret-to-present-at-2014-iitsec-in-orlando-fl/>.

GenTex: GenTex, a longtime member of the Northeastern Pennsylvania Alliance (NEPA), hosted the launch of NEPA's Defense Transition Partnership initiative in October at their Carbondale facility. Select members of the media, local government officials, and other economic development partners were briefed by NEPA on the initiative, which is designed to assist defense firms in the region to diversify their businesses in response to cutbacks in the defense budget. To read more about this, please visit <http://www.gentexcorp.com/default.aspx?pageid=5745>.

Spectrum Aeromed: Spectrum Aeromed's Stretcher System is being used in the most watched patient transports in recent history. Cartersville, GA, based Phoenix Air Group, Inc., is the only company in the world with an Airborne Biological Containment System (ABCS) equip-ped inside a Gulfstream III aircraft. What the patients are transported on is built in Fargo, ND, by Spectrum Aeromed. Since 2003, Spectrum Aeromed has supplied eight stretchers to Phoenix Air Group. Please visit <http://spectrum-aeromed.com/spectrum-aeromed-equipment-aids-ebola-patient-transport/> for more on this.