



Ever Upward: January 2023

Winners of the 2022 AsMA Fellows Scholarship

The AsMA Fellows Scholarship Committee is pleased to announce their selection of the 2022 scholarship winners. The 1st Place Winner was Bonnie Posselt for her presentation and published manuscript on “Human Performance Using Stereo Symbology in a Helmet Mounted Display & Association with Individual Stereoacuity.” The 2nd Place Winner was Thomas Abitante for his presentation and manuscript on “Peak Hip Reaction Forces During Neuromuscular Electrical Stimulation of the Thigh Muscles”.

The AsMA Fellows Scholarship is funded by the AsMA Foundation and is presented annually to two AsMA members who are students 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 AsMA’s Aerospace Medicine & Human Performance (AMHP) Journal based on the same topic and/or material covered in the slide or poster presentation. The 1st and 2nd Place Winners are selected by the AsMA Fellows Scholarship Committee based on the highest scientific value, originality, quality and relevance of the applicant’s presentation and AMHP manuscript related to the field of aerospace medicine (including allied scientific disciplines). Special consideration is given to those applicants who are at an early stage in their career development. The scholarship monetary awards are used for the purpose of underwriting, in whole or in part, the cost of registration fees, transportation, hotel accommodations, or any other valid fees or expenses incurred by the winners in relation to their attendance at one or more scholarly meetings on topics related to aerospace medicine.

Twelve candidates delivered presentations at the 2022 AsMA meeting in Reno, Nevada (first eligibility requirement). Six candidates submitted manuscripts that were approved for publication in the AMHP journal (second eligibility requirement). These six candidates were considered the final eligible candidates for the 2022 scholarship.



Bonnie Posselt, left, and Thomas Abitante, right.

AsMA Mentioned in News Report

The Aerospace Medicine Association (AsMA) was mentioned in a report on CBS’s Nightly News. The story was on an 11-year-old girl who had an allergic reaction during a flight. The airline did not have an EpiPen in their Emergency Medical Kit (EMK), though they did have epinephrine. Fortunately, there was a doctor on the flight who was able to measure out the dose needed and gave it to the girl. AsMA’s recommendations that airline EMKs carry additional items such as auto-injectors and pediatric doses of epinephrine is mentioned a few paragraphs down. The story goes on to discuss what each of seven major airlines said about their EMKs. The full article can be found online at <https://www.cbsnews.com/news/in-flight-emergencies-airlines-medical-kit-requirements/>.

In Memoriam: Frank Pettyjohn

AsMA Headquarters staff were deeply saddened to hear of the death of Dr. Frank Pettyjohn, a Fellow of the Aerospace Medical Association, in early December. A native of Delaware, Dr. Pettyjohn graduated in 1956 from the University of Delaware with a B.S. in Civil Engineering. He subsequently entered the U.S. Army as a 2nd Lieutenant in the Corps of Engineers. Following a tour in Korea, he returned to attend Hahnemann University School of Medicine, Philadelphia, PA, graduating in 1963 with an M.D. degree. After an internship at Madigan Army Medical Center, Fort Lewis, WA, he attended the U.S. Navy School of Aviation Medicine and then the U.S. Army School of Aviation. He received his designation as a Naval Flight Surgeon and an Army Flight Surgeon and served his initial Flight Surgeon tour at Simmons Army Airfield, Fort Bragg, NC.

Dr. Pettyjohn then served in Vietnam as a Flight Surgeon for the 17th Combat Aviation Group in 1966. Upon his return, he entered internal medicine residency training at Madigan Army Medical Center, Fort Lewis, WA. He then began initial residency training in aerospace medicine as a Post Doctoral Fellow in Public Health Preventive Medicine at the University of Washington, Seattle, WA. He returned to Madigan Army Medical Center to complete a Fellowship in Cardiology. He completed his residency in aerospace medicine at Brooks Air Force Base in 1973. During 1973, he served as Cardiologist and Flight Surgeon for Operation Homecoming to return Vietnam POWs to the United States. He joined the U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL, in 1973. During his research there, he joined the International Academy of Aviation and Space Medicine, where he served as Chancellor from 1998-2003, 1st Vice President in 2003-2005, and President in 2005-2007.

In 1977, Dr. Pettyjohn became Deputy Commander/Chief, Professional Services, at the U.S. Army Aeromedical Center

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and Lyster Army Community Hospital, Fort Rucker, AL. He also served as the Commander, U.S. Army Aeromedical Activity. In 1980, he moved to the Naval Aerospace Medical Research Laboratory in Pensacola, FL, as Director of the Applied Aeromedical Research Program. In 1982, he became Commanding Officer, U.S. Army Medical Department Activity and Winn Army Community Hospital, Fort Stewart, GA. In 1985, he returned to the Naval Aerospace Medical Institute in Pensacola, FL, as Cardiologist and Army Liaison Officer until 1986, when he joined the University of South Alabama College of Medicine, Mobile, AL, as a Professor. He was Chairman of the Department of Emergency Medicine for the University of South Alabama Medical Center. He also served as a Cardiology Consultant to the Federal Aviation Administration and as the Medical Director of the Emergency Medical Services Department of Education, College of Allied Health and Professions for the University of South Alabama. Additionally, he was the Medical Director for the Gulf Coast Region VI Emergency Medical Services.

Dr. Pettyjohn was recalled to the U.S. Army in 1991 as a Cardiologist and Aviation Medicine Consultant at the U.S. Army Aeromedical Center during Operation Desert Shield/Desert Storm. He was a member of the team that returned the U.S. POWs from Desert Storm to the United States. In December 2008, he again returned to active duty in the U.S. Army as a Flight Surgeon and Cardiologist with the 345th Combat Support Hospital in Tikrit, Iraq. He returned to the University of South Alabama in 2009. He retired as a Professor Emeritus in 2017.

Dr. Pettyjohn's military awards included the Combat Medical Badge, the Legion of Merit, Bronze Star, Meritorious Service Medal, Air Medal with two oak leaf clusters, U.S. Army Commendation Medal, U.S. Navy Commendation Medal, and U.S. Air Force Commendation Metal. He was the first recipient of AsMA's John Ernsting Award for his long career in aerospace medicine in 2010. He was a member of the Civil Aviation Medical Association and the U.S. Navy Aerospace Medicine Residency Advisory Committee. He served on the Executive Council of AsMA from 1979-1982. He was a Fellow of the American College of Cardiology, the American College of Physicians, and the American College of Chest Physicians. He also served as a reviewer for *Aviation, Space, and Environmental Medicine* (now known as *Aerospace Medicine and Human Performance*), AsMA's journal.

New Members

AsMA welcomes 25 new members in January.

- Bernard, Francois; Noisy-sur-École, France
- Church, Adam; Chula Vista, CA, United States
- Davis, Selina; Merritt Island, FL, United States
- Dehn, Jackson; Frederick, MD, United States
- Deming, Nathan; Castle Pines, CO, United States
- Dent, Gabrielle; Cincinnati, OH, United States
- Donahue, Melanie; Ann Arbor, MI, United States
- Emery, Rachel; Goodyear, AZ, United States
- Gray, James; San Diego, CA, United States
- Heavy, Jonathan; Rocky River, OH, United States
- Johnson, Margaret; Stafford, VA, United States
- Klaas, Chad; Hanover, NH, United States

- Mirza-Saadi, Nadia; Glasgow, Scotland, United Kingdom
- Morgan, Michael; Miami, FL, United States
- Nestor, Lois; Huntington Beach, CA, United States
- Novak, Kevin; Centerville, OH, United States
- Peters, Barrett; Charlottesville, VA, United States
- Pour Emam Ali Siavan Mahaleh, Simin; Berkeley, CA, United States
- Sekhar, Binu; Kozhikode, Kerala, India
- Sundararajan, Venkatesan; Cary, NC, United States
- Swamembirg, Jaap; Zurich, Switzerland
- Tan, Gabriel; Singapore, Singapore
- Usaha, Chawin; Georgetown, Malaysia
- Wickersham, Randall; Kailua, HI, United States
- Zoumi, Eleni Angeliki; Exeter, Devon, United Kingdom

AsMA welcomes back two members:

- Pascual, Nathaniel; Colorado Springs, CO, United States
- Reichlen, Christopher; Columbus, MS, United States

FAA News

De-Icing Pads at Memphis International Airport

Federal, state, local and business leaders marked the completion of 3.3 million-square-foot de-icing pads at Memphis International Airport, home to FedEx's largest air cargo sorting facility. The pads are large enough to de-ice 12 wide-body cargo aircraft simultaneously, which will help get goods where they need to go quicker and more efficiently this holiday season. The FAA invested \$174 million to help make this project a reality. With these innovative de-icing pads at Memphis International Airport, message boards eliminate the need for audio communication with pilots, taxiway lead-in lights eliminate the need for follow-me vehicles or marshalls, and infrared cameras help position airplanes in the de-icing bays. These pads offer more environmentally friendly de-icing procedures with wider safety margins. De-icing planes at a central pad instead of the gate allows an aircraft to depart sooner, reducing the need to de-ice an aircraft again. The new pads have a segregated drainage system and large-volume containers to collect de-icing fluid. The fluid's release is metered into the sanitary sewer system, where it breaks down and helps sanitize city wastewater. The complete release can be found at <https://www.faa.gov/newsroom/new-de-icing-pads-will-keep-packages-moving-key-cargo-airport-holiday-season>.

Read Current News Online!

Visit the AsMA, Member, & Industry News to see what's new! **Members:** please check the Job Fair each month; new jobs are posted as we receive them.

Visit Us on Social Media!

Twitter: https://twitter.com/aero_med

FB: www.facebook.com/AerospaceMedicalAssociation

LinkedIn: [https://www.linkedin.com/company/2718542?trk=tyah&trkInfo=tarId:1404740611720,tas:Aerospace Medical,idx:1-1-1](https://www.linkedin.com/company/2718542?trk=tyah&trkInfo=tarId:1404740611720,tas:Aerospace%20Medical,idx:1-1-1)

NEWS OF CORPORATE MEMBERS

Jet Companion Becomes Newest Corporate Member

Jet Companion is a Canadian company that offers medical personnel to travel on a plane with those who need extra care during the trip. Their founder was a flight paramedic who served onboard air ambulances and commercial flights and heard the stories of those who wanted to travel but were frustrated at having to depend on someone else. This became a dedication to assisting people to be able to travel regardless of age or illness. The company now has a mix of nurses, paramedics, and doctors who can serve as travel companions. They also offer an air ambulance service that can handle a variety of medical transport requests as well as a child travel program, repatriation assistance, and other similar services.

—For more information on Jet Companion, please visit their website at <https://www.jet-companion.com/>.

Mayo Clinic Care Network Joined by Shannon

Shannon Medical Center and Mayo Clinic announced that the Texas health system has joined the Mayo Clinic Care Network. Members of the Mayo Clinic Care Network, a group of carefully vetted, independent health care organizations, have special access to Mayo Clinic's knowledge and expertise. Physicians from Shannon will be able to combine their understanding of their patients' medical needs with Mayo Clinic expertise, so patients get exactly the care they need, close to home. Through Shannon's membership in the Mayo Clinic Care Network, its physicians have access to Mayo Clinic clinical solutions and services. Staff from Shannon can use Mayo Clinic educational materials designed for patients, and access opportunities for professional development and continuous medical education.

—Please see <https://newsnetwork.mayoclinic.org/discussion/texas-health-system-shannon-joins-mayo-clinic-care-network/> to read more.

Corporate News Bites

MedAire: The CEO of MedAire was interviewed by AIN Online regarding security concerns in the wake of COVID-19. He expressed the concerns that clients have regarding safety and security as travel, especially internationally, is still uncertain. Please visit <https://www.ainonline.com/aviation-news/business-aviation/2022-12-01/medaires-dolny-warns-security-concerns-wake-covid> for the full interview.

AOPA: The Aircraft Owners and Pilots Association (AOPA) has an airport advocacy team that assists members with solving community airport issues such as use of the land near an airport. Their experts, who are partnered with AOPA's Airport Support Network, has solved over 150 cases this year. Please see <https://www.aopa.org/news-and-media/all-news/2023/january/pilot/aopa-action-january-2023> to read more.

KBR Continues to Support Landsat

KBR is tasked with supporting the Landsat Program—the very satellites used to help agencies with monitoring climate change, mapmaking, and rescue efforts. These tools are not simply used for crises, but often for necessities like tracking crops and modern-day conveniences, such as Google Maps. The Landsat Program is a series of missions jointly managed by NASA and the U.S. Geological Survey (USGS). NASA builds and launches Landsat satellites and then turns them over to the USGS to operate. KBR supports this critical program through various contracts with both government organizations in four main ways: flight control, engineering, calibration/validation efforts, and data management. KBR and its team of experts have played integral roles in the Landsat Program for more than 20 years since the launch of Landsat 7 in 1999. Landsat 7 is currently the oldest satellite of the program still in operation. Since its 1999 launch, the KBR Landsat 7 Mission Operations Center and Flight Operations team has been flying Landsat 7 from mission control out of NASA Goddard Space Flight Center (GSFC) in Greenbelt, MD. KBR also supports contracts such as NASA's Omnibus Multidiscipline Engineering Services (OMES) II at GSFC, which supplied hardware and test support to the TIRS-1 thermal sensor on Landsat 8, launched in 2013, and the TIRS-2 thermal sensor on Landsat 9, launched eight years later in 2021.

—Please visit <https://www.kbr.com/en/insights-news/stories/celebrating-50-years-landsat> for the complete press release.

MEETINGS CALENDAR

Please check the websites of meetings listed to see updates.

Calls for Papers—Ongoing: IAF's Global Networking Forum Space Conversations Series, online. For more info, please visit <https://www.iafastro.org/events/iaf-gnf-space-conversations-series/>.

HFACS Workshops: Workshops on the The Human Factors Analysis and Classification System (HFACS) are available online and in-person. For more info, please visit <https://www.enrole.com/erau/jsp/course.jsp?categoryId=&courseId=HFAC> for in-person & <https://www.enrole.com/erau/jsp/course.jsp?categoryId=558570F8&courseId=OHFA> for online.

March 20-23, 2023; Preventive Medicine 2023; New Orleans, LA. For more information or to register, please visit <https://pm2023.acpm.org/>.

FAA AME Seminars

These are offered by the FAA AME Program office.

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| Jan. 27-29, 2023 | Albuquerque, NM | Refresher |
| March 20-24, 2023 | Oklahoma City, OK | Basic |
| May 23-26, 2023 | New Orleans, LA | AsMA |

Please check the [FAA website](https://www.faa.gov) for more information.