



Ever Upward: October 2019

International Relations



Dr. Hernando "Joe" Ortega, AsMA President, working hard to convince ICAO Medical Director, Dr. Ansa Jordaan, to sponsor a scientific panel for the AsMA meeting in Atlanta, GA.

New Members

AsMA welcomes 13 new members in October.

- Curreri, Charles; Arlington, TX, United States
- Dally, Matthew; Portland, OR, United States
- Drosos, Nicholas; Overland Park, KS, United States
- Elizarraras, George; Conroe, TX, United States
- Ferguson, Riley; Lexington, KY, United States
- McLin, Leon; Fort Sam Houston, TX, United States
- Millea, Richard; Preston, Lancashire, United Kingdom
- Minton, Mark; Mobile, AL, United States
- Nelson, Sean; APO, AE, United States
- Patel, Keval; Livonia, MI, United States
- Stapleton, Lindsay; College Station, TX, United States
- Vital, Sol Yasmin; Manaus, Amazonas, Brazil
- Warneke, Jessica; Colorado Springs, CO, United States

Read Current News Online!

The AsMA News, Member News, and Industry News pages are updated as we get news. Members: check the Job Fair; new jobs are posted monthly!

Sventek Interviewed for Podcast

Jeff Sventek, M.S., CAsP, FAsMA, Executive Director of the Aerospace Medical Association (AsMA), was interviewed



for the Dr. Erin L. Albert podcast. He talked about his background, how he chose to become an aerospace physiologist, and the Association, including a brief history. You can listen to the podcast through Spotify, Google Podcasts, Apple Podcasts, and others. To choose a listening platform and hear the interview, please visit

<https://anchor.fm/dr-erin-l-albert/episodes/Space--Medicine--Aerospace-Medical-Association---Jeff-Sventek-e5bbqd>.

In Memoriam: Mary Anne Frey

AsMA's Home Office was saddened to hear of the death of Mary Anne Frey, Ph.D., in mid-September. Born in Washington, DC, Dr. Frey earned a



B.A. in Physics in 1970 and a Ph.D. in Physiology in 1975 from George Washington University. She later earned an MBA in Management from the Florida Institute of Technology in 1984. She began her career in 1970, lecturing in the Department of Physiology at George Washington University Medical Center until

1975. From 1972 until 1975, she was an instructor at Montgomery College in Takoma Park, MD. In 1975, she served as a Postdoctoral Fellow in the Department of Cardiology at George Washington University. In 1976, she became an Assistant Professor of Physiology at the Wright State University School of Medicine and College of Science and Engineering in Dayton, OH. She worked there in various capacities, including Director of the Human Cardiovascular Laboratory, Head of the Human Physiology Laboratory, Adjunct Associate Professor of Physiology and Biophysics, and Adjunct Associate Professor of Community Medicine, until 1989, when she became an Adjunct Professor in the Aerospace Medicine Residency Program.

Dr. Frey also worked at NASA as Technical Manager, The Bionetics Corp., at the Kennedy Space Center. From 1986–1988, she was part of the Clinical Faculty at the University of Central Florida. From 1987–1990, she served as a NASA visiting scientist with the Universities Space

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Research Association. From 1990–1994, she held the position of Manager, Life Support Department, Lockheed Engineering and Sciences Co., in Washington, DC. She then became Program Manager, Life and Biomedical Sciences and Applications Division, at NASA Headquarters in Washington, DC.

Dr. Frey also served as a consultant for the NIH National Center on Minority Health and the NASA Bioethics Task Force. She served on the Editorial Boards of *Aviation, Space, and Environmental Medicine* and the *Journal of Applied Physiology*. She was a Federation of American Societies of Experimental Biology (FASEB) Visiting Scientist and on the Board of Governors for the Inter-American Institute of Science, Inc. During her professional training, she was a Fellow at the Third U.S. Seminar on Epidemiology of Cardiovascular Disease sponsored by the Council of Epidemiology of the American Heart Association and National Heart, Lung and Blood Institute. As part of her work to encourage women and minorities to enter scientific careers, she founded the Frances E. Walker Fund at George Washington University for Women in Physics.

Dr. Frey was a member of the American Association for the Advancement of Science, the American Association of University Professors, the American Heart Association, the New York Academy of Sciences, the American Physiology Association, the American College of Sports Medicine, the International Academy of Astronautics, the Association for Women in Science (Founding President of the Dayton Chapter), and a Fellow of the Aerospace Medical Association (AsMA). She was also a member of the Aerospace Physiology Society and the Life Sciences and Biomedical Engineering Branch. Her honors and awards include the Louis H. Bauer Founders Award from the Aerospace Medical Association, the Ellingson Literary Award from the Society of NASA Flight Surgeons, the Hubertus Strughold Award from the Space Medicine Association, being named an Honorary NASA Flight Surgeon by the Society of NASA Flight Surgeons, and NASA's Silver Snoopy Award. She had also held a National Science Foundation Predoctoral Fellowship and a National Institutes of Health Postdoctoral Fellowship.

SUBMIT AN ABSTRACT for the annual meeting!

The abstract submission site is now open. The 91st Annual Scientific Meeting of the Aerospace Medical Association will be held in 2020 in Atlanta, GA, USA. The theme for the meeting is "Optimizing Human Performance via Selection & Training." The site opened on Sept. 1 and will remain open until Nov. 1. Please read the [Call for Papers](#) or visit the [Abstract Submission page](#) for more information.

Deadline is November 1, 2019. NO EXCEPTIONS!

Obituary Listing

AsMA Headquarters staff were saddened to learn that **Dr. Michael F. Hawkins** died in mid-May. He was an Emeritus Member and Fellow of the Aerospace Medical Association (AsMA). Born in the United Kingdom, Dr. Hawkins earned an M.B.B.S. in 1955 and a D.Av.Med. in 1968 at London University. He served in the Royal Air Force for a time. He was a member of the Faculty of Occupational Medicine, Royal College of Physicians, and of the Royal Aeronautical Society. He lived for many years in Thailand and was passionate about aerospace medicine and flight safety.

FAA Colloquium

Postmortem Forensic Toxicology in Aviation

The Federal Aviation Administration's (FAA's) Civil Aerospace Medical Institute is again organizing the Arvind Chaturvedi Colloquium on Postmortem Forensic Toxicology in Aviation to be held **April 7-9, 2020** at the FAA Mike Monroney Aeronautical Center in Oklahoma City, OK, USA.

The meeting will be a scientific platform for medical examiners, pathologists, coroners, forensic toxicologists, academics, students, aerospace medicine scientists and specialists, regional flight surgeons, and NTSB personnel and other accident investigation authorities.

If you are interested in attending, **please respond by January 31, 2020**. For more information and registration, please visit: <https://cami-colloquium.eventbrite.com/>.

CALL FOR CONTRIBUTIONS

The editors of the Journal of Advanced Transportation are calling for contributions to the special issue "Methodologies for the Analysis and Prevention of Aviation Safety Occurrences." The editors are interested in a broad range of topics, including safety/accident analysis methods and models, data analysis, and human factors. Please visit the [Call for Papers](#) for more information. **The submission deadline is Friday, 22 Nov. 2019**; the publication date will be April 2020.

MEETINGS CALENDAR

Oct. 21-25, 2019; 70th International Astronautical Congress - IAC 2019; Washington, DC, USA. For more info, please visit <http://www.iafastro.org/events/iac/iac-2019/>.

Oct. 28-Nov. 1, 2019; HFES 63rd International Annual Meeting; Seattle, WA, USA. For more information on the meeting, please visit <http://www.hfes2019.org/>.

Dec. 17-18, 2019; Embry Riddle Aeronautical University (ERAU) Human Factors Analysis Classification System (HFACS) classes; Las Vegas, NV. For more information, please visit <https://proed.erau.edu/courses/hfacs>.

June 9-11, 2020; Global Space Exploration Conference; St. Petersburg, Russian Federation. Co-organized by the International Astronautical Federation and ROSCOSMOS. For more info, visit <http://www.iafastro.org/evenements/global-space-exploration-conference-glex-2020/>.

NEWS OF CORPORATE MEMBERS

MedAire Researches Pediatric Medical Kits with Duke University

MedAire recently partnered with Duke University to understand the medical events children experience in flight. Aircrew need a medical kit stocked with items appropriate for the ailing passenger. While events affecting adults in flight are well-documented, incidents involving children had never been the subject of an extensive, global study before. By understanding the medical events children experience, opportunities to improve crew training and provide age-appropriate medications can be identified. Since almost all drug dosages vary by age, age is a critical component to provide appropriate care. The results of MedAire's expertise, partnered with the high academic standards of Dr. Rotta and Duke University, will be published in the prestigious *Annals of Emergency Medicine*.

—The study is at [https://www.annemergmed.com/article/S0196-0644\(19\)30481-0/fulltext](https://www.annemergmed.com/article/S0196-0644(19)30481-0/fulltext). There is also an article from the New York Times available at <https://www.nytimes.com/2019/09/16/well/family/air-travel-emergencies-pediatrics.html>.

KBR Receives Award from UK Armed Forces

As a supporter of the Armed Forces Covenant since 2014, KBR has continually striven to improve the support it offers employees who currently serve or have served in the British Armed Forces. This commitment was formally recognized with a Gold Award as part of the Covenant's Employer Recognition Scheme, building on the Silver Award previously held. KBR's Government Solutions EMEA business now employs over 150 reservists, veterans, or military spouse/partners. Earlier this year the business formed the Armed Forces Network (AFN) to support KBR's Covenant pledges. Employees, leading in multiple areas, volunteer their time to support the wider business to further advance recruiting and career development experiences for colleagues from the military community.

—Please visit <https://www.kbr.com/en/insights-events/press-release/kbr-awarded-uk-armed-forces-covenant-gold-status> to read more on this.

Martin-Baker Wins Award from Lockheed Martin

Martin-Baker Aircraft Co., Ltd., received a prestigious award from one of the leading defense manufacturers in the world during a recent suppliers conference. Lockheed Martin presented Martin-Baker with the Supplier Award for Outstanding Warfighter Support to the Joint Strike Fighter program as an audience of some 200 fellow suppliers watched. Kevin Hutchins, Senior Programme Manager for JSF, was on hand to receive this award for Martin-Baker. The company were recognized for their efforts in supporting the improved schedule for the Ejection Seat

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Maintenance Policy (MPoL). According to the award citation, Martin-Baker went above and beyond expectations by going out on their own risk to procure and package hardware for six different MPoL kits in order to meet stand-up requirements at six bases in 2019. Additionally, they were cited for diligently working their supply chain to pull in MPoL Phase 2 and Phase 3 first-article hardware and improving delivery time by as much as 22 weeks.

—Please see <https://martin-baker.com/2019/09/17/martin-baker-wins-award-lockheed-martin/> for more on this.

Monash Researchers Recognized with Publication Prizes

Three Monash Biomedicine Discovery Institute (BDI) early career researchers (ECRs) were recognized with Faculty of Medicine Nursing and Health Sciences' ECR Publication Prizes. This year, eight prizes were awarded to ECRs who have published an outstanding piece of research. Dr. Timothy Tucey, from the Traven lab, was awarded the Robert Porter Early Career Researcher Publication Prize for Laboratory Based Sciences for his *Cell Metabolism* publication titled 'Glucose homeostasis is important for immune cell viability during Candida challenge and host survival of systemic fungal infection'. Dr. Shane Landry, from the Edwards lab, received the Henry Krum Early Career Researcher Publication Prize for Clinical Sciences for his paper published in *Sleep*, titled 'Ventilatory control sensitivity in patients with obstructive sleep apnea is sleep stage dependent'. Dr. Mitchell Lawrence, from the Risbridger lab, won the Early Career Researcher Fellows Publication

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Corporate News Bites

UTMB: The University of Texas Medical Branch (UTMB) congratulated Dr. Ken Fujise on being interviewed by the *Houston Chronicle*. They also congratulated Geriatrics and Palliative Medicine Division NP Jennifer Young for winning the Daisy Award for Extraordinary Nurses. The articles on these two can be found at <https://www.utmb.edu/internalmedicine/news-events/news-article/2019/09/10/congratulations-to-dr.-ken-fujise> and www.utmb.edu/internalmedicine/news-events/news-article/2019/09/16/congratulations-to-jennifer-young.

APA: The Allied Pilots Association (APA) welcomed the progress on the Fair and Open Skies Act, which was marked up in mid-September in the House Transportation and Infrastructure Committee. This bill would help prevent "flag of convenience carriers." Please visit <https://www.alliedpilots.org/News/ID/7202/Allied-Pilots-Association-Welcomes-Progress-on-Fair-and-Open-Skies-Act> for more on this.

NKI: NeuroKinetics, Inc. (NKI), partnered with the Vestibular Disorders Association for Balance Awareness Week in mid-September. The awareness week is intended to shed light on balance disorders and increase public support for these mostly invisible conditions. To read more on this, please visit <https://neuro-kinetics.com/project/balance-awareness-week-2019/>.

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Prize for Laboratory Based Research for his *European Urology* paper titled 'Patient-derived models of abiraterone- and enzalutamide-resistant prostate cancer reveal sensitivity to ribosome-directed therapy'.

—Please see <https://www.monash.edu/discovery-institute/news-and-events/news/2019-articles/ecr-publication-prizes-for-outstanding-research> to read more about this.

Serco Team Recognized with Award

Serco Australia was named winner of the Best Recruitment Campaign Award at the 2019 Australian HR Awards, which were held in Sydney in early September. The award recognizes the achievements of the Serco Talent Acquisition team in supporting significant organizational growth over the past 12 months, which resulted in the appointment of an additional 3,000 staff. This is the equivalent of 31% of Serco's total workforce in the Asia Pacific Region and comprised of a diverse range of roles from medical and dental clinicians, to contact center operators, custodial service officers and Naval warfare specialists. A strategic approach focusing on diversity and inclusion, operational agility and innovation underpinned the team's talent resourcing plan. As a result, Serco was able to increase the diversity of its workforce and improve the efficiency of the recruitment and onboarding process for new hires.

—Please see <https://www.serco.com/aspac/news/media-releases/2019/serco-team-takes-out-top-recruitment-award> for the complete news release.

AOPA Uses Weather Survey to Aid Safety Initiatives

The Aircraft Owners and Pilots Association (AOPA) recently conducted a weather survey. The survey indicated that the number of pilots who use online alternatives and apps for weather briefings is growing while those who call Flight Service for the weather is decreasing. Unsolicited pilot reports are also decreasing. The decline in the use of the Flight Service was most pronounced in Alaska. AOPA has issued five recommendations based on the survey: three encouraging progress on weather-infrastructure development to meet the unique needs of pilots in Alaska; one to identify reasons why pilots don't submit more pilot reports; and one to bring aviation's perspective into the National Weather Service's Hazard Simplification Project. The project is an effort to create a "weather-ready nation" by increasing public awareness and preparation for weather-related and water-related hazards. AOPA made the survey data available to the FAA's Air Traffic Organization for the its development of its list of the top five safety initiatives for the air traffic system.

—Please visit <https://www.aopa.org/news-and-media/all-news/2019/october/pilot/aopa-action-october-2019> to read more about this.

Future AsMA Annual Scientific Meetings

May 17-21, 2020; Hyatt Regency Atlanta; Atlanta, GA
May 23-27, 2021; Peppermill Resort Hotel; Reno, NV
April 3-7, 2022; Sheraton Denver Downtown, Denver, CO

NIOSH Releases Resource for Small Business International Travel

The National Institute for Occupational Safety and Health (NIOSH) recently released the Small Business International Travel Resource that provides valuable information and tools for both employers and employees to address these travel concerns. International work locations present unknown challenges and risks, especially for small businesses with fewer than 50 employees. The new travel resource was designed to help the small business owner and their employees anticipate and plan for safe and healthy travel abroad, and is organized in three stages: pre-travel, on-travel, and post-travel. Very often, an employee focuses the most energy on pre-travel planning and getting to their destination. This new resource encourages thorough and advance planning that takes safety and health needs into consideration at all times. The Small Business International Travel Resource tools also include a travel health assessment, packing list, location health and safety plan, contact and emergency information forms, and incident reports, as well as an international work travel resource directory.

—Please see <https://www.cdc.gov/niosh/updates/upd-09-17-19.html> for more information about this.

Mayo Clinic Finds Drugs for Opioid Addiction Underused

Though research shows that medication-assisted treatment can help people who are addicted to opioids, the three drugs approved by the Food and Drug Administration (FDA) are underused, according to a review of current medical data on opioid addiction in the U.S. This review appears in the October issue of *Mayo Clinic Proceedings*. This review uses data from available medical literature to provide a framework for determining the optimal approach for medication-assisted treatments. Each drug has strengths and weaknesses, and the appropriate risks and benefits should be discussed with each patient suffering from an opioid use disorder, according to the study. According to the review, the three drugs, naltrexone, buprenorphine, and methadone, may be underused in part because access is limited by some legal requirements regarding who can write prescriptions. The one exception is naltrexone, which can be ordered by any prescriber. Another challenge in treating opioid use disorder is that it can be slow in developing, making it difficult to identify for primary care providers. Effectively responding to the opioid crisis requires moving beyond a medication-only approach, according to the review.

—Please see <https://newsnetwork.mayoclinic.org/discussion/medications-underused-in-treating-opioid-addiction-mayo-clinic-expert-says/> to read more about this.

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