



Ever Upward: January 2020

AsMA Fellows 2019 Scholarship Winners

The AsMA Fellows Scholarship Committee is pleased to announce their selection of the 2019 scholarship winners.



Lonnie G. Petersen, M.D. (left), was the 1st Place winner (\$2,000) for her presentation and publication of a manuscript on “Mobile Lower Body Negative Pressure Suit as an Integrative Countermeasure for Spaceflight.”

The 2nd Place winner (\$1,000) was Jordan B. Dixon (right) for his presentation and publication of a manuscript on “Integration of a Vestibular Model for Disorientation Research Device Motion Algorithm Application.”

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 and 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.

Melchor Antuñano, M.D., M.S.
Chairman, AsMA Fellows Scholarship Committee

Read Current News Online!

The AsMA, Member, & Industry News are updated as we get news. Members: check the Job Fair each month!

AsMA Members Present at AMA



From left to right, Dr. Hernando “Joe” Ortega, Dr. Daniel Shoor, and Dr. Paulo Alves presented a Continuing Medical Education lecture during the American Medical Association 2019 Interim Meeting in San Diego in mid-November. The sign shows the title of their presentation, where they showcased the AsMA “For Physicians” tab and the Air Travel Guideline links on the AsMA web site.

AMHP in Top 100 for Ingenta Downloads

ASEM & AMHP were in the top 100 for downloads in October 2019, ranking #19 & #23.

19. Aviat Space Environ Med.: 1961 total downloads (1540 pdf; 420 html); subjects were “Transportation,” “Medicine (General),” and “Public Health.”

23. Aerosp Med Hum Perform.: 1865 total downloads (1468 pdf; 397 html); subjects were “Transportation,” “Medicine,” and “Public Health.”

The following articles were the most accessed in October 2019:

1. Wilkes M, Long G, Massey H, Eglin C, Tipton MJ. Cognitive function in a simulated paragliding flight. *Aerosp Med Hum Perform.* 2019; 90(10):851–859. DOI: <https://doi.org/10.3357/AMHP.5428.2019> (accessed 186 times).

2. Bang S, Yang S, Cho SW, Kim DH, Kang H. Follow-up of blebs and bullae in pilots 40 years and older using CT. *Aerosp Med Hum Perform.* 2019; 90(10):867–871. DOI: <https://doi.org/10.3357/AMHP.5340.2019> (accessed 104 times).

Future AsMA Annual Scientific Meetings

May 17-21, 2020: Hyatt Regency Atlanta; Atlanta, GA
May 23-27, 2021; Peppermill Resort Hotel; Reno, NV

Send information for publication in this newsletter to: Journal Department, AsMA; rtrigg@asma.org

New Members

AsMA welcomes 12 new members.

- Bhagavath, Umesh Kumar; Bangalore, India
- Chong, Boon; Brisbane, Queensland, Australia
- Chung, Ingrid; Brighton, Victoria, Australia
- Dutra, Mayan; Sao Paulo, Brazil
- Gokulnath, Srinivas; Bangalore, India
- Handera, Haley; Carolina Beach, NC, United States
- Jeng, Timothy; Eastvale, CA, United States
- Lawal, Joy; Richmond, VA, United States
- Nagasawa, Glen; Tipp City, OH, United States
- Petersen, Lonnie; La Jolla, CA, United States
- Polymeropoulos, Vasilios; Washington, DC, United States
- Stroud, Rosmary; Beresford, Western Australia, Australia

NAHF Class of 2020 Announced

The National Aviation Hall of Fame (NAHF) Class of 2020, who will be inducted at the 58th Enshrinement Dinner & Ceremony on September 26, 2020, in Dayton, OH, is a diverse group representing a broad range of enduring contributions to both the advancement of flight and manned exploration of space.

The NAHF Class of 2020 includes:

(The late) **Second Lieutenant Eugene J. Bullard**, USAF-WWI Pilot; First African American combat pilot; Denied in the U.S., flew for France; and is one of the highest decorated pilots including the *Chevalier de la Legion d'honneur*.

(The late) **Dr. Maxime “Max” A. Faget**, Ph.D., Mechanical Engineer; developed rockets, missiles and aircraft; and designed the Mercury Spacecraft and was part of the design team for Gemini, Apollo and the Space Shuttle.

Ms. Joan Sullivan Garrett, Medical Professional; Visionary; Founder of MedAire; established the first aviation global medical emergency response; and directs real-time safety services to thousands annually throughout aviation.

(The late) **Captain Richard “Dick” F. Gordon**, USN, Naval Aviator; Test Pilot; Bendix Trophy Winner; Gemini 11 Pilot; Command Module Pilot Apollo 12; Back-up Commander Apollo 12; and part of design team for the Space Shuttle.

Colonel/Dr. Paul G. Kaminski, USAF (Ret), Ph.D., Aeronautical Engineer; led many technical aerospace programs including guided munitions; Lead Developer of Stealth Technology; and Directed F-117 and B-2 Programs.

Additional information available at nationalaviation.org.

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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)

ABPM Announces Requirements for Transition from MOC to CCP

The American Board of Preventive Medicine (ABPM) recently announced the requirements for its Diplomates to maintain ABPM Certification during the transitional period from the current Maintenance of Certification (MOC) program to a new and innovative Continuing Certification Program (CCP). The transitional period will begin February 1, 2020 and continue through December 31, 2022 (Transitional Period).

The objective of ABPM’s Transition Plan is to provide Diplomates with a thoughtful, simple, well-organized and orderly transition from the current MOC requirements to the more flexible and relevant requirements of the new CCP.

“Although the updated ABMS Standards for CCP may not be finalized for another year, we are already engaged in the planning process for our CCP which will be developed based on recommendations of the Continuing Board Certification: Vision for the Future Commission (Commission), not the least of which will include ABPM moving away from the every 10-year examination to an innovative longitudinal assessment model,” said Hernando “Joe” Ortega, Jr., M.D., M.P.H., ABPM Board Chair.

Details can be found on the ABPM website.

MEETINGS CALENDAR

Jan. 6-10, 2020; AIAA Science and Technology Forum and Exposition; Orlando, FL. This forum will discuss fluid dynamics, applied aerodynamics, guidance, navigation, and control, structures, and more. For more information, please visit <https://www.aiaa.org/events-learning/event/2020/01/06/default-calendar/SciTech2020>.

Jan. 14-16, 2020; 2nd International Academy of Astronautics (IAA) Conference on Space Situational Awareness; Arlington, VA, USA. For more information, please visit <https://www.aiaa.org/events-learning/event/2020/01/14/default-calendar/2nd-iaa-conference-on-space-situational-awareness>.

March 5-7, 2020; 5th Annual Singapore Aviation Safety Seminar; Singapore. Jointly organized by the Flight Safety Foundation and Singapore Aviation Academy. For more info, please visit <https://flightsafety.org/summit-seminar/5th-annual-singapore-aviation-safety-seminar/>.

April 7-9, 2020; FAA Colloquium: Arvind Chaturvedi Colloquium on Postmortem Forensic Toxicology in Aviation; FAA Mike Monroney Aeronautical Center, Oklahoma City, OK, USA. For more info or to register, please visit <https://cami-colloquium.eventbrite.com/>. **If interested, please respond by January 31, 2020.**

Upcoming Calls for Papers

Sept. 24-26, 2020; 1st International Conference of Aerospace Medicine (ICAM 2020); Paris, France. Abstract submission and registration open 15 Oct. 2019 and the **abstract submission deadline is 26 Feb. 2020**. For more information, please visit <http://www.icam2020.com/EventPortal/Information/ICAM2020/HOME.aspx>.

NEWS OF CORPORATE MEMBERS

SAA Named Africa's Best Airline for 16th Year

South African Airways (SAA) has been selected by the readers of Global Traveler as the "Best Airline in Africa" for the 16th consecutive year in the magazine's annual reader survey. Global Traveler presented the award to SAA at a ceremony held in mid-December at The Peninsula Beverly Hills Hotel in California. Each year, Global Traveler (GT) readers are polled on their travel preferences in its annual survey that recognizes the best in business travel, including airlines, hotels, airports, destinations and other travel related services. According to MediaMark Research (MRI), GT readers have a large average net worth and 50% are either CEOs or business owners. Their readers average nine domestic flights per year and 93% travel internationally on a regular basis, flying primarily in First and Business Class.

—Please visit <https://www.flysaa.com/documents/51855150/573056453/South+African+Airways++Global+Traveler+Awards+2019++December+12+2019.docx.pdf/> to read more.

NIOSH and NSF Call for Robotics Research Proposals

The National Institute for Occupational Safety and Health (NIOSH) has partnered with the National Science Foundation (NSF), along with the National Aeronautics and Space Administration and the U.S. Department of Agriculture, to make funding available to study collaborative robots (co-robots) in the workplace. The NSF published a Program Announcement on December 2, 2019, calling for proposals for the National Robotics Initiative 2.0 (NRI 2.0). The deadline to apply is February 26, 2020, at 5:00 p.m. in the submitter's local time zone. A co-robot is a robot whose main purpose is to work with people or other robots to accomplish a goal. Through this initiative NIOSH seeks to fund research on co-robots for reducing workplace risk exposures, research to identify the potential risks of co-robots to workers, and research to evaluate various control strategies to protect workers. Research projects should address industry sectors likely to deploy and benefit from co-robots such as agriculture, construction, healthcare, and mining and consider modeling and simulation to evaluate potential hazards to humans in a virtual environment. Those interested in applying for funding can view the funding opportunity on the NSF website.

—Please see <https://www.cdc.gov/niosh/updates/upd-12-11-19.html> for more on this.

ALPA Allies with OSU to Develop ACE Club

The Air Line Pilots Association (ALPA) and Oklahoma State University (OSU) formalized an alliance recently to develop an Aviation Collegiate Education (ACE) Club, making it ALPA's 12th collegiate professional development and mentoring program—and its sixth new program in as many years. Oklahoma State is the first and only college in the Big 12 Conference to receive this honor. Alliances built between ALPA and leading aviation universities like Oklahoma State aim to promote the profession and support aspiring aviators as they prepare for careers within the airline industry.

Regular visits and presentations by active airline pilots will give students practical workplace examples, emphasizing professionalism. In addition to on-campus outreach, ALPA's Education Committee organizes annual field trips for students to tour airline operations and other aviation-related facilities. These trips provide students with a behind-the-scenes look at how airlines operate and a first-hand experience of what it takes to be a professional airline pilot.

—Please see <https://www.alpa.org/news-and-events/news-room/2019-11-25-oklahoma-state-becomes-12th-university-alpa-ace-club> for more information.

Serco Shipbuilding Expert to Lead Commissioning of New Icebreaker

A new employee of Serco Asia, Kay Myers, who started in September, will be leading the commissioning of the RSV *Nuyina*, which will replace Australia's current icebreaker, the *Aurora Australis*. Kay is currently overseeing Harbour Acceptance Testing in Galati, Romania, and previously completed Test Readiness Reviews in Holland. Sea trials for the new icebreaker will begin in 2020 in the Black Sea and Mediterranean, finishing in the Netherlands. When the vessel arrives in Hobart next year, Kay will step into the role of Mechanical Engineering Manager to oversee the ongoing operation and maintenance of the icebreaker. Her most recent similar role was in Glasgow as the Outfit Lead for the \$35 billion Hunter Class Frigate project. But it was her longstanding interest in icebreakers and her passion for shipbuilding that led her to accept the role on the *Nuyina* project.

—Please see <https://www.serco.com/aspac/news/media-releases/2019-female-shipbuilding-expert-to-lead-the-commissioning-of-australias-new-icebreaker> for more on this.

Mayo Clinic Finds Stomach Cancer in Younger Patients Is Distinct

Many people under 60 who develop stomach cancer have a "genetically and clinically distinct" disease, new Mayo Clinic research has discovered. Compared to stomach cancer in older adults, this new, early onset form often grows and spreads more quickly, has a worse prognosis, and is more resistant to traditional chemotherapy treatments, the study finds. The research was published recently in the journal *Surgery*. The research team studied 75,225 cases using several cancer databases to review stomach cancer statistics from 1973 to 2015. They found that the incidence of late-onset stomach cancer decreased by 1.8% annually during the study period, while early onset disease decreased by 1.9% annually from 1973 to 1995 and then increased by 1.5% through 2013. The proportion of early onset gastric cancer has doubled from 18% of all cases in 1995 to now more than 30% of all

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gastric cancer cases. The increased rate of the early onset disease is not from earlier detection or screening. In addition to being more deadly, early onset stomach cancer is also genetically and molecularly distinct, the researchers found. In their next study, the research team hopes to better identify risk factors for early onset stomach cancer using the Rochester Epidemiology Project and potentially other large databases.

—Please visit <https://newsnetwork.mayoclinic.org/discussion/many-younger-patients-with-stomach-cancer-have-a-distinct-disease-mayo-research-discovers/> to read more about this.

Corporate News Bites

MedAire: MedAire's founder, Joan Sullivan Garrett, was inducted into the International Aerospace Hall of Fame in late November. She was instrumental in passing requirements for U.S. airlines to carry defibrillators. Please visit <https://www.dailyrepublic.com/all-dr-news/wires/honoring-air-and-space-visionaries-the-san-diego-union-tribune/> to read more about this.

KBR: KBR and Aspire Defence sponsored the Most Collaborative Award, which was presented in mid-November at the Women in Defence UK Award Ceremony, The Guildhall, London. KBR congratulated the winner of the Most Collaborative Award and all the winners. Please visit <https://www.kbr.com/en/insights-events/kbr-and-aspire-defence-proudly-sponsor-women-defence-uk-awards-for-more-on-this-and-a-photo>.

IFALPA: The International Federation of Air Line Pilots Associations recently released a position paper on command training. IFALPA identified a need in the aviation industry to standardize and enhance command training. To read the paper, please see <https://www.ifalpa.org/publications/library/command-training—3242>.

Monash: Prof. David Newman recently ran the third Australian Certificate of Civil Aviation Medicine for 2019. Students had two offsite visits during the 10-day course, visiting Avia Aviation for their flight simulator experience and Airservices Australia in Tullamarine, where staff briefed them on the role of air traffic controllers. The group were then given the rare opportunity to see air traffic controllers at work. Final exam results ended in a draw for the top spot. Rory Rearden was awarded the Dux for this course. Please see <https://www.monash.edu/medicine/sphpm/units/avmed/news> to see the photo of the winner.

Martin-Baker: Martin-Baker installed the first US16J ejection seat as part of the U.S. Navy F-5 seat upgrade program in early December. This upgrade program will increase the number of Martin-Baker seats in the U.S. Navy and Marine Corps to over 3,000 seats in service in 2020. Please see <https://martin-baker.com/2019/12/06/martin-baker-installs-1st-us-navy-f-5-seat-upgrade/> for a photo and to read more.

AFBA Names New CIO and Board Member

The Armed Forces Benefit Association (AFBA) and its affiliate, 5Star Life Insurance Company, announced the appointment of Gen. Craig R. McKinley, USAF (Ret.), to the 5Star Life board of directors. McKinley retired as a four-star general in 2012 after a long and honorable 38-year career in the Air Force. His last assignment was as the Chief of the National Guard Bureau, where he also served as a member of the Joint Chiefs of Staff. The company also announced the promotion of Birye Abebe to Senior Vice President and Chief Information Officer, effective in January. The announcement came as Madeline Delahan retired at the end of the year after serving as Senior Vice President and Chief Information Officer since 2012. Abebe brings more than 20 years of experience in the Information Technology field. Before joining AFBA/5Star Life in 2007, Abebe worked for American University, NTT Data, and AT&T leading technology implementation projects.

—Please see <https://newsroom.afba.com/press-releases/afba-5star-life-announce-appointment-general-craig-r-mckinley-usaf-ret-5star-life-board/> and <https://newsroom.afba.com/press-releases/afba-5star-life-insurance-co-name-birye-abebe-chief-information-officer/> to read more.

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/>.

FAA AME Seminars

Jan. 31–Feb. 2, 2020	Nashville, TN	Refresher
March 23–27, 2020	Oklahoma City, OK	Basic
May 18–21, 2020	Atlanta, GA	AsMA
June 22–26, 2020	Oklahoma City, OK	Basic
Aug. 7–9, 2020	Washington, DC	Refresher

Please check the [FAA website](#) for more information.

PLEASE NOTE: The only FAA seminar AsMA takes registrations for is the one held in conjunction with our annual meeting in May.