



Ever Upward: February 2021

2021 Meeting Moving to Denver

The 91st Annual Scientific Meeting of the Aerospace Medical Association scheduled for May 23–27, 2021, is postponed to August 29–September 2, 2021. The meeting is also moving from the Peppermill Resort Hotel, Reno, NV, to the Sheraton Denver Downtown Hotel, Denver, CO.

A decision to postpone the May 2021 meeting was made in an effort to allow a larger number of people to receive the COVID-19 vaccinations. We believe that as more people are immunized against the COVID-19 virus, current restrictions on travel and large group gatherings will be relaxed. An in-person AsMA meeting later in 2021 would be much more successful with larger attendance numbers and more attendee interaction.

In an effort to postpone the May 2021 meeting, we approached the Peppermill Resort and asked for dates in late summer or early autumn. Unfortunately, they could not offer us suitable dates later in the year. Further discussion with our meeting planners at AIM Meetings & Events resulted in an idea to contact the meeting hotels for our 2022 (Denver) and 2023 (New Orleans) meetings. The Sheraton New Orleans could not offer us suitable late summer/early autumn dates. However, the Sheraton Denver Downtown Hotel offered us late summer dates of August 29–September 2, 2021! We placed a hold on these dates and discussed the possibility of slipping the 2021 Reno meeting to dates in 2022. The Peppermill Resort in Reno was agreeable with this offer and they proposed the May 22–26, 2022 dates.

The proposal to postpone the May AsMA meeting to late August and to swap the 2021/2022 meeting venues was presented to the AsMA Executive Committee during an emergency Zoom meeting. After thoughtful discussion, the AsMA Executive Committee approved the following:

- 91st Annual Scientific Meeting: August 29–September 2, 2021; Sheraton Denver Downtown Hotel, Denver, CO
- 92nd Annual Scientific Meeting: May 22–26, 2022; Peppermill Resort Hotel, Reno, NV
- 96th Annual Scientific Meeting: May 17–21, 2026; Sheraton Denver Downtown Hotel, Denver, CO



Sheraton Denver Downtown Hotel, Denver, CO.

Addenda to the two hotel contracts have been reviewed and signed and we are now preparing to meet in Denver, CO, for our 91st Annual Scientific Meeting.

The Annual Scientific Meeting print program with all accepted abstracts and other Annual Scientific Meeting information will be published in the June 2021 journal issue. This allows time to build schedules and assign session rooms based upon the Denver hotel. Please be sure to bring the June program issue with you to Denver.

The 2020 and 2021 AsMA Annual Awards, normally presented during Honors Night Ceremonies at the Annual Scientific Meeting, will now be presented during the meeting in Denver, CO, in 2021.

Constituent Organizations within AsMA should decide whether to conduct their annual business meeting virtually in 2021 or postpone their business meeting until the Denver meeting in late August.

The Aerospace Medical Association thanks you for your patience as we worked through this in a very deliberate fashion. We wanted to make an informed decision on this important matter. We will be in contact with sponsors, exhibitors, and participants who had previously registered for this year's annual meeting. In the meantime, we hope you all remain healthy and safe! For more information, please visit <https://www.asma.org/scientific-meetings/asma-annual-scientific-meeting/asma-91st-annual-scientific-meeting-postponed-moving-to-denver,-colorado> and scroll down to Meeting Registration.

Northrup Is Next Federal Air Surgeon

The Federal Aviation Administration (FAA) has announced that Susan E. Northrup, M.D., M.P.H., FAsMA, will be the



next U.S. Federal Air Surgeon. As U.S. Federal Air Surgeon, she will have direct oversight of all FAA medical programs. This includes the development and establishment of airman medical certification, the air traffic control specialist medical qualification policy, the application of that policy in medical decision making, the medical appeals process, and the oversight of aviation industry drug and alcohol testing

programs. She also oversees the FAA's aeromedical education programs, the planning and conduct of aerospace medical and human factors research, and the investigation of aircraft accident medical factors. Previously, she served as acting Deputy Federal Air Surgeon and the Senior Regional Flight Surgeon. Dr. Northrup is the first woman to be selected as the U.S. Federal Air Surgeon.

Dr. Northrup graduated from the Ohio State University with a B.A. in Chemistry in 1985 and received her M.D. degree in 1989. She served a Family Practice internship at the Ohio State University Hospitals from 1989-1990 and then

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earned a M.P.H. in 1994 from the University of Texas Health Science Center in Houston, after which she served a Residency in Aerospace Medicine from 1994-1995 and a Residency in Occupational Medicine from 1995 to 1996 at the USAF School of Aerospace Medicine, Brooks AFB, TX, USA. She graduated from the Air War College Jump Start Program in 2003. She served in the U.S. Air Force from 1990-2010 as a Flight Surgeon at Moody AFB, GA, USA; Chief of Aeromedical Services at Prince Sultan Air Base at Al Kharj, and Dhahran Air Base, Saudi Arabia; Chief of Aerospace Medicine at Pope AFB, NC, USA; and Chief of Operational Medicine at Bolling AFB, DC, USA.

During this time, Dr. Northrup deployed as part of Desert Storm and Desert Shield and was the U.S. Head of Delegation at the NATO Aeromedical Working Group, U.S. Coordinating Member at the Air Standardization Coordinating Committee, Working Party 61, and a member of the Repatriated Prisoner of War Study Group Scientific Advisory Board at the Robert Mitchell Center, NAS Pensacola, FL. From 2001 to 2005, she also served as Regional Medical Director of Air Crew and Passenger Health Services at Delta Air Lines, Inc. In 2005, she became a Medical Consultant for the National Pilots Association and in 2009, she became Commander of the 94th Aeromedical Staging Squadron at Dobbins AFB, GA. She was appointed as FAA Regional Flight Surgeon for the Southern Region in 2007, a position she still holds.

Dr. Northrup's awards and honors include FAA Flight Surgeon of the Year, TAC Flight Surgeon of the Year, the Air Force Meritorious Service Medal with two oak leaf clusters, the Air Force Achievement Medal with a single oak leaf cluster, and the Air Force Outstanding Unit Award with Valor and a single oak leaf cluster. The Aerospace Medical Association (AsMA) presented her with the John A. Tamisiea Award in 2015 and the Admiral John C. Adams Award in 2020. She is a member of the Red River Valley Fighter Pilots Association, the Society of USAF Flight Surgeons, the International Airline Medical Association, the Civil Aviation Medical Association, the American Society of Aerospace Medicine Specialists, and the American Board of Preventive Medicine. She is also a Selector for the International Academy of Aviation and Space Medicine and was Chair of the Air Transportation Association Medical Committee. She is board certified in aerospace medicine and in occupational medicine, and is an acknowledged expert in aviation medicine, having served as the Vice-Chair for Aerospace Medicine on the American Board of Preventive Medicine. While in the Air Force, she was the U.S. Head of Delegation to NATO's aeromedical working group. More recently, she has served the FAA as the FAA medical subject matter expert to ICAO's COVID response activities and the COVID IMT and the Office of Aerospace Liaison to the Air Traffic Organization. Dr. Northrup is a past President of the American Society of Aerospace Medicine Specialists and the Civil Aviation Medical Association.

Read Current News Online!

News is updated as we receive items. Visit AsMA's site to read all about it! Members: please check the Job Fair each month; new jobs are posted as we receive them.

AsMA Scholarship Deadlines Extended

The deadline for AsMA scholarship applications has been extended to March 1, 2021. As a result of postponing the AsMA 91st Annual Scientific Meeting from late May 2021 to late August 2021, the AsMA Executive Committee and the AsMA Fellows Scholarship Committee approved an extension of the application submission deadline for five scholarships. ***The January 31, 2021 scholarship application submission deadline for the following five scholarships is now extended to March 1, 2021:*** Anita Mantri, Ph.D., Memorial Travel Scholarship; AsMA International Aerospace Medicine Scholarship; Jeffrey R. Davis, M.D., Aerospace Medicine Endowed Scholarship; Stanley R. Mohler, M.D., Aerospace Medicine Endowed Scholarship; and AsMA Fellows Scholarship. ***This is for 2021 only.*** Click on the link to [learn more about scholarship opportunities](#).

New Members

AsMA welcomes 24 new members in February.

- Bruder, Eric; Brighton, Ontario, Canada
- Cargill, Michael; Amherst, VA, United States
- Chen, Kevin; Virginia Beach, VA, United States
- Combs, E.; San Antonio, TX, United States
- Connolly, Kyleigh; Greenville, SC, United States
- Cunningham, Carolyn; Leamington Spa, Warwickshire, United Kingdom
- DeGraff, Thomas; Little Rock, AR, United States
- Deming, Nathan; Loveland, CO, United States
- Deshmukh, Rahul; Las Cruces, NM, United States
- Diaz, Thomas; Chapel Hill, NC, United States
- Frampton, Sean; Sumter, SC, United States
- Friedland, Shawn; Ft. Lauderdale, FL, United States
- Gassen, Gavin; New Orleans, LA, United States
- Gatzke, Lori; Colorado Springs, CO, United States
- Kanakam, Raaga; Delray Beach, FL, United States
- Lackner-Graybiel, James; Waltham, MA, United States
- Lowery, Curtis; Memphis, TN, United States
- Mavratsas, Vasilis; Galveston, TX, United States
- Monlux, Daniel; Miami, FL, United States
- Salmon, Owen; El Paso, TX, United States
- Scoon, Logan; Boston, MA, United States
- Sundin, Ashley; Harrogate, TN, United States
- Vemulapally, Vineet; Ashburn, VA, United States
- Zhang, Mihoko; Cherry Hill, NJ, United States

In Memoriam: Lawrence Marinelli

AsMA staff were saddened to learn of the death of Lawrence Marinelli, M.D., M.P.H., a Fellow of AsMA, in late June 2020. He graduated from Georgetown Medical School and earned an M.P.H. at Columbia University. He served in the U.S. Navy as a Flight Surgeon and Group Medical Officer, as a Senior Flight Surgeon for the U.S. Naval Reserve, and as Chief of the Federal Aviation Administration's Eastern Region Aviation Medical Division. He was also a past Medical Director of General Dynamics and Continental Airlines and an Aerospace Medical Consultant at Kansas University Medical Center. He was on staff at both Centinela Hospital, where he was Director of Aerospace Medicine at

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the hospital's airport medical clinic, and Cedars-Sinai Marina del Ray Hospital.

Dr. Marinelli's honors included the George J. Kidera Award from the Airlines Medical Directors Association in 1988, the Boothby-Edwards Award from the Aerospace Medical Association in 1990, and the Navy Commendation Medal for his service as Commanding Officer of

Naval Reserve Hospital Lemoore in support of Operation Desert Storm. He was a Past President of the Southwest Region of the Association of the U.S. Navy, a past Selector of IAASM, and a Past President of the Airline Medical Directors Association, where he also served as Chairman of their Awards Committee.

In Memoriam: Rollin Stott

AsMA staff were saddened to learn of the passing of J. R. Rollin Stott, M.A., M.B.B.Chir., MRCP, DCH, DIC, D.Av.-Med. A native of the United Kingdom, Dr. Stott graduated from Cambridge University in 1960 with a B.A. He then earned his M.B.B.Chir. at Middlesex Hospital in London in 1963. He received an MRCP in 1969. In 1979, he graduated from Imperial College, London, with a DIC and earned his D.Av.Med. in 1986. He was a member of the Aerospace Medical Association for nearly 30 years and was a co-author on three articles published in the Association's journal. Additionally, he was the author of two chapters in "Ernsting's Aviation and Space Medicine", a standard aerospace medicine reference.

Dr. Stott was one of the first invited contributors to the online journal *Extreme Physiology and Medicine* and was called to investigate numerous military and general aviation mishaps. He served on accidents boards, most notably the Morecambe Bay helicopter crash in 2005 and the Gulf Air

crash in 2000. During his life, he was recognized as an international expert on situation awareness and spatial disorientation for over 30 years. He was a respected accident investigator for the United Kingdom and identified lapses in situation awareness and spatial disorientation that resulted in aviation mishaps in both the military and civilian aviation.

Dr. Stott was renowned in the field of human perception mishaps in aviation, helping to develop ground-based and in-flight spatial disorientation training for pilots. He also was involved in drafting the NATO technical report "Spatial Disorientation Training: Demonstration and Avoidance." While working at the Institute of Aviation Medicine early in his career, he assisted in revising the theory of spatial disorientation in aviation and, later, improved the human perception model of spatial orientation. He worked with Dr. Geoffrey McCarthy to prove the Inversion Illusion and wrote a computer program to illustrate the actual sensations of the vestibular organs. He also developed a syllabus of in-flight illusions for pilots and collected pilots' experiences of spatial disorientation. This collection led him to conclude that teaching named illusions wasn't helpful to pilots, who experienced spatial disorientation as confusing situations. His contributions to ground-based pilot spatial disorientation training were significant and he will be missed.

Journal Continues in Top 25

IngentaConnect has the full text download data for all the titles it carries and the Association's Journal remains in the top 25 (AMHP is in the top 10 and ASEM is in the top 25).

For November 2020:

- *Aerospace Medicine and Human Performance* ranks 7th with 2,936 downloads.
- *Aviation, Space, and Environmental Medicine* ranks 18th with 1,936 downloads.

For December 2020:

- *Aerospace Medicine and Human Performance* ranks 6th with 2,583 downloads.
- *Aviation, Space, and Environmental Medicine* ranks 24th with 1,301 downloads.

NEWS OF CORPORATE MEMBERS

NIOSH Celebrates 50 Years

In 2021, the National Institute for Occupational Safety and Health (NIOSH) is reflecting on 50 years of service. Created by the Occupational Safety and Health (OSH) Act of 1970, NIOSH was established as a separate and independent research program to create objective scientific research findings in the field of occupational safety and health. One of the major roles of NIOSH over the years has been to adjust our research to the ever-changing workforce. If there is one thing we have learned from 2020, it is just how fast the look and feel of work, the workplace, and the workforce can change. Throughout the past five decades, NIOSH has expanded its work to include emerging safety and health concerns, addressing both well-known and newly emerging hazards for workers. NIOSH also continues to respond to the needs of emergency responders and frontline workers who work to protect our nation from natural and manmade threats. In the

past 50 years, since the passage of the OSH Act, NIOSH has grown and expanded throughout the United States. As part of the NIOSH 50th anniversary, they are welcoming current and past partners to highlight successes and accomplishments that resulted from collaborations with the Institute.

—Please visit www.cdc.gov/niosh/enews/enewsv18n9.html to read more about this.

KBR Explores High-Speed Space Transportation

The National Defense Transportation Association (NDTA) recently hosted its annual fall meeting with U.S. Transportation Command (TRANSCOM) Transportation Academy. It was announced that USTRANSCOM is looking to space as a way to quickly move critical cargo and personnel during time-sensitive contingencies, as well as to deliver humanitarian

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ian assistance. USTRANSCOM is teaming up with Space Exploration Technologies Corporation (SpaceX) and Exploration Architecture Corporation (XArc) via Cooperative Research and Development Agreements (CRADA) to explore innovative space transportation options. KBR is currently supporting XArc in XArc's CRADA study by providing experience and expertise in ground support and logistics. During the event, Teresa Demming, Manager, Future Operations of KBR, and Sam Ximenes, space architect and CEO of XArc, delivered a joint course. The hour-long briefing included solutions under consideration for spaceports prepared in advance; receive and launch locations, such as airfields or heliports, built in advance; and potential troublesome landing and takeoff scenarios. Logistics for ground support, while complicated for space, remain consistent to include site preparation/reception, payload handling, spaceship and crew maintenance, and refueling and onward distribution of payload. KBR's vast expertise in these areas could propel USTRANSCOM toward its goal of being able to move 80 tons of cargo—the equivalent of a C-17 transport—via a space-based vehicle anywhere on the globe within 1 hour.

—Please see <https://www.kbr.com/en/insights-events/stories/kbr-explores-high-speed-transportation-space-us-government-logical-for-the-entire-press-release>.

MedAire Partnered with Emirates Group Security

Emirates Group Security's longstanding partnership with MedAire has been cemented with yet another collaboration to build an innovative, cutting-edge solution that will improve its thorough analysis and threat-prevention systems in the aviation industry. MedAire has been appointed to provide timely, accurate and actionable information that will enhance Emirates Group Security's (EGS) arsenal of leading-edge systems. The partnership between the companies to create a comprehensive security solution will allow for increased accuracy and decreased incidents. MedAire's aviation security solution for EGS will include airspace and airport assessments, 24/7 access to security/operational assistance, and se-

Corporate News Bites

AOPA: Aircraft Owners and Pilots Association (AOPA) President Mark Baker surprised Aaron Benedetti, a Boeing 787 Dreamliner captain, with the keys to an RV-10 airplane he had won in an AOPA sweepstakes. Capt. Benedetti was led out to the airport by an old college friend, who took him to an interview with AOPA President Baker, who broke off the interview to present Benedetti with the keys. Please visit <https://aopa.org/news-and-media/all-news/2021/january/24/aopa-sweepstakes-rv-10-goes-to-avid-pilot-to-read-the-entire-article>.

ALPA: The Air Line Pilots Association (ALPA) issued a statement after President Biden announced the appointment of Mayor Marty Walsh for secretary of the Department of Labor. ALPA congratulated Mayor Walsh on the appointment and looks forward to working with him. Please see <http://www.alpa.org/news-and-events/news-room/alpa-congratulates-marty-walsh-labor-secretary-for-the-complete-statement>.

curity intelligence via an Aviation App and Travel Security Online Portal. MedAire's Aviation Security services help airlines receive timely, accurate, actionable information and provide them with thorough security assessments of crew hotels and ground transport at outstations. These additional security precautions will allow EGS—solely responsible for handling security services and its implementation across the entire Emirates Group—to leverage and deploy a safer environment in all the moving facets of the operational chain.

—Please visit <https://www.medaire.com/about/news-centre/press-release-detail/2021/01/11/emirates-group-security-appoints-medaire-as-a-partner-to-enhance-avsec-threat-and-risk-assessments> to read more about this.

Serco Shortlisted for Hospital Project

Serco Australia announced that it has been shortlisted for the redevelopment and expansion project of the existing Frankston Hospital in Victoria, Australia (the "Project"). The Project will ensure that the growing population in Frankston and the Mornington Peninsula have easy access to high-quality medical services in their local community. The redeveloped and expanded Frankston Hospital will provide a multi-level acute services tower, new maternity, obstetrics, and pediatric wards as well as a new women's clinic. There will also be additional beds capacity and operating theatres and improved mental health and oncology services. Serco is a part of the Pulse Health Partnership consortium, which includes global partners John Laing and BESIX Watpac. If successful, Serco will act as facilities manager undertaking soft services delivery and all asset maintenance and replacement for 25 years.

—Please see <https://www.serco.com/aspac/news/media-releases/2021/serco-shortlisted-for-australian-hospital-redevelopment-and-expansion-project-for-the-full-news-release>.

MEETINGS CALENDAR

Due to the coronavirus, please check the websites of meetings listed here to see if they have been postponed/cancelled.

Fortnightly; International Astronautical Federation (IAF) Global Networking Forum Space Conversations Series; ONLINE, 14:00 Paris time. Please visit <https://www.iafastro.org/events/iaf-gnf-space-conversations-series/> for more information.

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

March 22-26, 2021; NATO Aerospace Medicine Summit; Garmisch Partenkirchen, Germany. Full details and registration are available at <https://events.sto.nato.int/index.php/upcoming-events/event-list/event/330>.

May 2-5, 2021; 105th American Occupational Health Conference (AOHC 2021); ONLINE. The American College of Occupational and Environmental Medicine's (ACOEM's) annual meeting. For more information, please visit [https://acoem.org/Learning/American-Occupational-Health-Conference-\(AOHC\)](https://acoem.org/Learning/American-Occupational-Health-Conference-(AOHC)).