



Ever Upward: March 2022

Proposed Bylaws Changes

In accordance with Article XII of the Aerospace Medical Association Bylaws, the following proposed changes to the Bylaws are printed herein. The changes will be voted upon at the next Aerospace Medical Association Annual Business Meeting to be held Tuesday, May 24, 2022. The meeting is open and all members are encouraged to attend (no lunch purchase is necessary to participate in the meeting). The proposed Bylaws changes presented below are designed to remove the requirements for in-person meetings for conducting the business of the Aerospace Medical Association. The impact of the COVID-19 restrictions on travel and in-person events forced the association to conduct many of its business meetings virtually. The Bylaws need to be updated to reflect the ability to conduct the association business virtually in the future.

The deletions are listed as ~~strike-throughs~~. The additions are *italicized and underlined*.

Article IV. CORPORATE FORUM

Section 3. Activities

Forum Events: The Corporate Forum will plan and conduct an *annual* Advisory event, in coordination with Council, ~~at the Annual Scientific Meeting.~~

Article V. FELLOWSHIPS

Fellow:

(2) All those now holding the grade of Fellow, or who may be hereafter elected to such, shall constitute the group of Fellows. The group shall meet and shall elect annually ~~during the Annual Scientific Meeting,~~ its chair, who shall hold office until a successor is elected.

D. Associate Fellow:

(2) All those holding the grade of Associate Fellow, or who may hereafter be elected to such, shall constitute the group of Associate Fellows. The group shall meet annually ~~during the Association's scientific meeting~~ during which the election of officers will be announced.

ARTICLE VIII. COUNCIL OF THE AEROSPACE MEDICAL ASSOCIATION AND EXECUTIVE COMMITTEE

SECTION 5: Executive Committee

B. Except as otherwise provided in these Bylaws, the Executive Committee shall have the power to exercise all the functions of the Council between *Association meetings annual meetings of the Association* and when the Council is not in session.

D. The Executive Committee shall be responsible to the Council for the program of *scientific meetings.* ~~the scientific sessions.~~

I. The Executive Committee shall select the time, ~~and~~ place, *and format* of the Annual Scientific Meeting.

ARTICLE XI. ELECTIONS.

Elections shall be held at the ~~A~~ *Annual* ~~B~~ *Business* ~~M~~ *meeting* of the Association.

ARTICLE XII. COMMITTEES.

SECTION 3. Standing Committees Functions.

N. The report of the Nominating Committee shall be made ~~prior to the Annual Scientific Meeting~~ as stipulated in the Policies and Procedures Manual and orally at the opening ceremony of the Annual Scientific Meeting.

O. Registration Committee: The Registration Committee assists with ~~onsite~~ registration activities associated with the Annual Scientific Meeting.

ARTICLE XIII. MEETINGS

SECTION 1. Required Meetings.

Required meetings may be conducted in one of the following formats (1) in-person only, (2) combined in-person and virtually, or (3) virtual only.

A. The Association shall conduct at least one Annual Business Meeting which shall be open to the general membership and devoted to the reception of annual reports, the nomination and election of officers, consideration of amendments to the Bylaws, consideration of resolutions, and any other such business as decided by the Council.

B. The Association shall conduct at least one scientific meeting each year.

SECTION 2. Time and Place of Meetings.

The Annual Scientific Meeting shall be conducted at a time and place, *and in a format* selected by the Executive Committee. Meetings shall be held as provided for in these Bylaws. In cases of emergency, the Council shall have the authority to cancel, postpone, or change the site *or format* of an annual meeting, or a special Association meeting may be authorized or called by the Council.

ARTICLE XVI. AMENDMENTS.

The Bylaws of the Association may be amended at any Annual Business Meeting of the Association by two-thirds vote of active members present at such meeting. Association Bylaws amendment proposals may be submitted by any member of Council or a petition of at least 2% of the active membership of the Association. Proposed amendments must be communicated to the Association Headquarters *at least 60 days prior to a Council meeting* ~~by the end of December~~ and approved by two-thirds vote of the Council members for consideration at the Annual Business Meeting. The membership must be notified of the proposed amendments no less than 60 days prior to the Annual Business Meeting. The Policy and Procedures Manual will describe the process for review, modification, and presentation of amendment proposals for the membership vote on each amendment at the *Annual Business* ~~annual~~ Meeting.

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.

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

Ånell Receives Tuttle Award



Karl Ånell, M.D., poses with the Arnold D. Tuttle Award. He was the 2021 recipient, but was unable to attend the meeting at which it was presented.

SMA Announces New Scholarship

The Space Medicine Association (SMA) has instituted a new scholarship in honor of Dr. John B. Charles who passed away earlier this year. This \$500 scholarship is offered to any student who has demonstrated human life science research achievement and has shown an interest in human life sciences research for human spaceflight. The scholarship is open to a student enrolled full-time in college who is in good academic standing. If selected, only one scholarship will be awarded. The Award will be presented at the Annual Business Luncheon Meeting of the Space Medicine Association. The Space Medicine Association John B. Charles Research Scholarship is established to memorialize Dr. John Charles' leadership and his scientific contributions to human spaceflight physiology. Throughout his career as a premier researcher and Chief Scientist of the Human Research Program at NASA/JSC, Dr. Charles conducted groundbreaking research, guided numerous research projects, science programs for human spaceflight missions and mentored many students and young investigators. Application deadline is March 1 annually (via [AsMA Scholarships website](#)).

Other scholarships with a March 1 suspense date are:

- AMSRO Diversity Scholarship
- ANAHPS Eileen Hadbavny Scholarship
- ANAHPS Louise Marshall Nursing Scholarship
- International Association of Military Flight Surgeon Pilots (IAMFSP) Scholarship
- Space Medicine Association Undergraduate Scholarship
- Space Medicine Association International Scholarship
- Space Medicine Association Medical & Graduate Education Scholarship sponsored by Dr. Jeffrey R. Davis
- Space Medicine Association Medical Resident & Post-Doctorate Scholarship sponsored by KBR in honor of Robert Ellis

GLOC 2022

Save the following date: #GLOC2022; 31 May–2 June 2022; Oslo, Norway. For more information, please visit www.iafastro.org.

Full descriptions are posted on the AsMA website: <https://www.asma.org/about-asma/careers/scholarships>. Please visit the AsMA Scholarships link on that page to apply.

The Wing of AsMA Activities in Reno

The Wing of the Aerospace Medical Association (AsMA) welcomes members and all accompanying persons coming to



AsMA in Reno to join their planned activities, May 22–26, 2022. They welcome those associated with the Undersea & Hyperbaric Medical Society (UHMS) joining the AsMA meeting for the first time. The Wing will have a hospitality room at the Peppermill Resort Hotel, a

welcome reception, two group activities, and a luncheon. For more information, please visit thewingofasma.com or on Facebook (The Wing of the Aerospace Medical Association). Come join The Wing to enjoy your time in Reno, see old friends and make new ones.

New Members

AsMA welcomes 46 new members in March:

- Abitante, Thomas; Boston, MA, USA
- Aguirre, Jason; Porter Ranch, CA, USA
- Baltali, Yigit; Lethbridge, Alberta, Canada
- Bishop, Aaron; Lemoore, CA, USA
- Block, Jamie; North York, Ontario, Canada
- Burkes, Tyler; New York, NY, USA
- Chao, Kenny; Brooklyn, NY, USA
- Chen, Alyssa; Ann Arbor, MI, USA
- Coker, Dorothy; Baltimore, MD, USA
- Dullool, Milad; La Tour-de-Peilz, Vaud, Switzerland
- Eaton, Joshua; Elmendorf AFB, AK, USA
- Evans, Lorna; Fort Collins, CO, USA
- Fillmore, Harrison; New York, NY, USA
- Ghansyam, Matthew; Pearland, TX, USA
- Girgla, Navjit; Farmington Hills, MI, USA
- Griffith, Grant; Springfield, VA, USA
- Haines, Carver; Springdale, AR, USA
- Hedrick, Cody; Fairborn, OH, USA
- Horn, Jackson; Somerset, KY, USA
- Horne, Rheagan; Gainesville, FL, USA
- Johnson, Paul; Great Falls, MT, USA
- Kennedy, Ryan; Orleans, Ontario, Canada
- Kurian, Sincy; Houston, TX, USA
- Masood, Mohammed; Manchester, Lancashire, United Kingdom
- McNamara, Maureen; Denver, CO, USA
- Mithani, Adi; Montreal, Quebec, Canada
- Morgagni, Fabio; Roma, Italy
- Ngo, Julie; Grand Rapids, MI, USA
- O'Connell, Robert; Blackrock, Ireland
- Olsen, Wendy; Gainesville, FL, USA
- Patel, Nikhil; Plymouth, MI, USA
- Rais, Rumeesa; Midlothian, VA, USA

See 'New Members,' p. N10

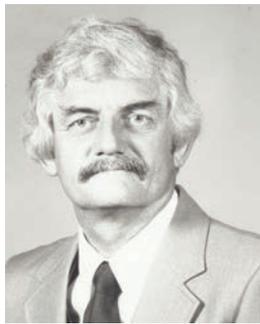
- Rejcek, Micah; Wright-Patterson AFB, OH, USA
- Rogers, Amy; Essex Junction, VT, USA
- Rossum, Alfred; Litchfield Park, AZ, USA
- Saullo, James; Sandy, UT, USA
- Schaefer, Cindy; Highland Park, IL, USA
- Shair, Kamal; Jacksonville, FL, USA
- Sharfman, Cora; Houston, TX, USA
- Singh, Romil; Pittsburgh, PA, USA
- Stafford, Breanna; Colorado Springs, CO, USA
- Tamaro, Alberto; Roma, Italy
- Temsah, Omar; Riyadh, Saudi Arabia
- Tucker, Blake; Galveston, TX, USA
- Vargas, Matthew; Tucson, AZ, USA
- Wilkins, Felicia; Louisville, KY, USA

AsMA welcomes back one member:

- Peterson, Mark; Ely, MN, USA

In Memoriam: Russell Burton

AsMA HQ Staff were saddened to hear of the death of Russell R. Burton, DVM, Ph.D., a Fellow of AsMA, in late January. A



native of California, he received his degrees from the University of California at Davis: the DVM in 1956, an M.S. in physiology in 1965, and a Ph.D. in comparative pathology in 1970. After receiving his DVM, he practiced veterinary medicine until 1962, when he joined the University of California at Davis as a research pathologist working on stress and adaptation in animals exposed to either high altitude or long-duration acceleration.

Dr. Burton joined the U.S. Air Force School of Aerospace Medicine in 1971 as a research physiologist. His achievements included using the miniature swine as a new animal model for acceleration research, creating new human centrifuge profiles that simulated aerial combat maneuvering, developing a predictive model for pilot G tolerance using all combinations of known anti-G protective systems, and leading the effort to design and fabricate a new high-flow, ready-pressure anti-G suit inflation valve.

Dr. Burton received the Aerospace Medical Association's (AsMA's) Arnold D. Tuttle Award in 1976, the Environmental Science Award in 1980, and the Eric Liljencrantz Award in 1988. He received the Paul Bert Award of the Aerospace Physiology Society in 1975 and the Professional Excellence Award of the AsMA's Life Sciences and Biomedical Engineering Branch in 1979. In 1986, he received the USAF Scientific Achievement Award as co-designer of the advanced anti-G valve. Dr. Burton was the author or coauthor of about 100 research papers, reviews, and book chapters.

Future AsMA Annual Scientific Meetings

May 22–26, 2022; Peppermill Resort Hotel, Reno, NV
May 21–25, 2023; Sheraton New Orleans Hotel, LA
May 5–9, 2024; Hyatt Regency Chicago, Chicago, IL

In Memoriam: Richard M. Harding

AsMA HQ staff were saddened to hear of the unexpected passing of Richard M. Harding, B.Sc., M.B., B.S., Ph.D.,



CASp, a Fellow of the Aerospace Medical Association. A native of the United Kingdom, he earned his B.Sc. in Physiology in 1971 at London Hospital Medical College, University of London. He earned his M.B., B.S. there in 1974. He was awarded a Diploma in Aviation Medicine in 1981 from the Royal College of Physicians in London and was also named an Associate of the Faculty of Occupational Medicine. He graduated from St. Bartholomew's Hospital Medical College, University of London, in 1985 with a Ph.D. in Human Physiology. He attended the Royal Air Force's (RAF's) Initial Medical Officers Course in 1976 and earned Board Certification in Aerospace Physiology from the Aerospace Medical Association in 1989.

Dr. Harding became Medical Officer Instructor and then RAF Specialist in Aviation Medicine from 1978–1981 at the RAF Aviation Medicine Training Center, RAF North Luffenham, Rutland. From there he became a Senior Medical Officer, Breathing Systems Research Section, Altitude Division, RAF Institute of Aviation Medicine, Farnborough, Hampshire. In 1988, he took the position of RAF Exchange Medical Officer, Chief of Acceleration Effects Function, Aerospace Research Branch, Crew Technology Division, U.S. Air Force School of Aerospace Medicine, Brooks AFB, TX, USA. He returned to the United Kingdom in 1991 and became Head of Aircrew Systems Division at the RAF Institute of Aviation Medicine. After retiring from the RAF in 1995, he became Consultant and then Principal Consultant at Biodynamic Research Corporation, San Antonio, TX, USA. He started RM Harding, LLC, in 2014 and was a Consultant for CCC Information Services Inc.

Dr. Harding was a member of the British Medical Association, the Royal Aeronautical Society, the International Academy of Aviation and Space Medicine, SAFE National Organization, the Society of Automotive Engineers, the Association for the Advancement of Automotive Medicine, and the Aerospace Medical Association (AsMA). He served on the Aviation Medicine Group Committee in the Royal Aeronautical Society, and within AsMA, served in on the Awards Committee of the Aerospace Physiology Society. He was also a member of the Life Sciences and Biomedical Engineering Branch. He served on the Aeromedical Working Party of the NATO Military Agency for Standardization and in Working Party 61 of the Air Standardization Coordinating Committee' and he was a Past President of the Association for the Advancement of Automotive Medicine. His honors and awards included a Group Achievement Award to Spacecraft Crew and an award for outstanding completion of the Columbia crew survival investigative report from NASA.

Job Fair

Members: Looking for a new position? Check the Job Fair! Log onto the Members Only page via www.asma.org and click on 'Job Fair & Classifieds' in the left-hand column.

Obituary Listing: Robert Buttemiller

AsMA HQ Staff were saddened to hear of the passing of Robert Buttemiller, M.D., M.P.H., Col., USAF (Ret.), in early January. A native of Illinois, he graduated from Northwestern University in 1963 with a B.A. He then attended Northwestern Medical School and graduated in 1966 with his M.D. degree. He was drafted into the U.S. Air Force in 1969 and became a flight surgeon. He completed the Primary Course in Aerospace medicine in 1970. He was stationed in a variety of places and served as the hospital commander at Luke AFB, AZ, USA. He retired in 1994. He was a long-time member of the Aerospace Medical Association and an Associate Fellow.

An online obituary is available at:
<https://www.thompsonfuneralchapel.com/obituary/robert-buttemiller-md/>.

FAA News: 1 Million Drone Authorizations

The Federal Aviation Administration (FAA) recently issued its millionth airspace authorization for drone pilots to use busy airspace safely. The Low Altitude Authorization and Notification Capability (LAANC) automates the process for drone pilots to quickly gain authorization and provides Air Traffic professionals with awareness of where drones may be operating.

Under Part 107 of the Federal Aviation Regulations, drone operators need to secure approval from the FAA to operate in any airspace controlled by an air traffic facility. Prior to LAANC, airspace authorizations were done manually, which could take drone pilots weeks to get approved. In 2017, the

FAA recognized that the manual system delayed the agency's goal to support routine drone operations and launched LAANC as a prototype for automatic airspace approvals.

Since becoming an official program in 2018, LAANC has provided an automated system for drone pilots—both commercial pilots and recreational pilots—requesting to fly below 400 feet in controlled airspace. Drone pilots are able to request airspace authorizations through any of the FAA-Approved LAANC Service Suppliers up to 90 days before they plan to fly. The system now covers 542 air traffic facilities serving approximately 735 airports. LAANC also allows the agency to provide drone pilots with information and guidance on where they can and cannot fly a drone. In 2021, the LAANC capability expanded to provide night authorizations to Part 107 Remote Pilots.

Drone pilots can also request airspace authorizations using the [FAA DroneZone](#), including for areas not covered by LAANC or when the operator holds a Part 107 waiver. For additional information on LAANC, visit the [FAA website](#). For general inquiries on these new regulations and other UAS inquiries, please call 844-FLY-MY-UA.

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NEWS OF CORPORATE MEMBERS

Mayo Clinic Collaborates to Reduce COVID-19 Inequalities

A team of Mayo Clinic medical experts and community leaders have collaborated to find ways to reduce health disparities related to COVID-19. Their playbook included how to address communication gaps, identify community priorities, and improve access to needed resources. They predicted that this approach will be effective in future public health emergencies and pandemics. The findings are detailed in a paper recently published in *Public Health Reports* evaluating the first 9 months of a community-based intervention that reached an estimated 39,000 people in immigrant and refugee populations in Southeast Minnesota. The intervention focused on COVID-19 communication gaps related to prevention and testing, and on the social and economic effects of the pandemic. Key to the intervention was the involvement of community members who collaborated with medical experts to assess and respond to COVID-19 health needs, serving as trusted conduits of information to their communities, and from communities back to the medical experts. Community leaders reported positive perceptions of the intervention, including high perceived efficacy, sustainability, and adaptability over time. They also stated that their experience working with the partnership made them feel more prepared for future pandemics. Results from the study indicated that this community-driven approach led to beneficial systems and policy changes that improved health equity for the communities. In the future, the researchers plan to further explore the

potential to use community-academic partnerships to improve health equity in immigrant and refugee communities.

—Please visit <https://newsnetwork.mayoclinic.org/discussion/community-leaders-and-mayo-clinic-researchers-develop-playbook-for-covid-19-health-equity-future-pandemics/> to read more.

UTMB Study Reveals HPV Vaccine Impact

In a new study published in the *Journal of the American Medical Association Oncology*, University of Texas Medical Branch (UTMB) researchers found evidence that HPV vaccination is reducing the incidence of anal cancer among young adults in the United States. Researchers at UTMB analyzed data from the U.S. Cancer Statistics database from 2001 to 2018 to examine anal cancer incidences among different age groups and determine the potential impact of HPV vaccination. They found that cancer incidence among young adults 20 to 44 years of age began to rapidly and significantly decrease within 2 years after the 2006 release of the HPV vaccine while rates continued to climb among those over age 44. This is consistent with prior studies which found that cervical cancer also decreased in young adults since vaccine roll-out. According to the 2020 National Immunization Survey from the Centers for Disease Control and Prevention, among just over 20,000 teenagers, about 75.1% of teens had received at least one dose of HPV vaccine and 58.6% were up to date on HPV vaccination. Females continue to have higher rates

See 'Corporate News,' p. N12

From 'Corporate News,' p. N11

of HPV vaccination at about 61.4% compared to 56% of males. However, vaccination rates remain well below the 2030 target of 80%.

—Please see <https://www.utmb.edu/news/article/utmb-news/2022/02/15/study-reveals-hpv-vaccine-impact-on-anal-cancer> for more on this.

AOPA Promotes Sharing Weather Information

The Aircraft Owners and Pilots Association (AOPA) conducted a Weather Survey in 2021 which indicated that only 47% of respondents “provided unsolicited pIREPS [pilot report] at least sometimes,” with the remainder rarely or never doing so. The survey indicated a variety of reasons why this might be true, but an alarming number responded that they were not comfortable doing so, did not think they had helpful information to share, or simply did not think about it. AOPA urges pilots to remember that pIREPS reporting good conditions are just as important as reports of bad conditions. And filing pIREPS is relatively easy and quick. AOPA is involved with Federal Aviation Administration (FAA) and industry efforts designed to make pIREP submission both easier and more common. However, without a paradigm shift in pilots’ willingness to issue pIREPS, the goal of increasing their frequency is likely to remain elusive. Thus AOPA asks pilots to consider brushing up on how to file a pIREP before flying.

—Please visit <https://www.aopa.org/news-and-media/all-news/2022/february/pilot/aopa-action-february-2022> to read more about this.

NIOSH Provides Funding for COVID-19 Related Challenges

The National Institute for Occupational Safety and Health (NIOSH) provided extramural funding during fiscal year (FY) 2021 to 38 projects that address challenges related to the coronavirus disease 2019 (COVID-19) pandemic. This included supplemental funding for State Occupational Safety and Health (OSH) Surveillance Programs and funding for investigator-initiated research through the Centers for Disease Control and Prevention’s (CDC) COVID-19 response efforts. Funding received through the American Rescue Plan Act of 2021 supported additional investigator-initiated research projects and research from NIOSH Centers of Excellence for *Total Worker Health*[®]. NIOSH also received funding for extramural research projects related to the health and well-being of the nation’s health workers during the COVID-19 pandemic. These projects include three investigator-initiated research awards focused on COVID-19 exposure, response, and physical and mental health sequelae among nurses in New York; physicians’ occupational health during COVID-19; and moral injury among healthcare workers on the frontlines of the COVID-19 crisis. In addition to extramural research, NIOSH received funding via the American Rescue Plan Act of 2021 to deliver a national awareness and education campaign to safeguard and improve the mental health of health workers.

—Please see <https://www.cdc.gov/niosh/updates/upd-02-03-22.html> for more on this.

Corporate News Bites

ETC: Environmental Tectonics Corp. announced the appointment of a new Chief Financial Officer (CFO). Joseph F. Verbitski was appointed the new CFO and Treasurer in late February. He has extensive background in accounting and finance and ETC’s Chief Executive Officer and President feels he will be a good addition to the ETC team. Visit <https://www.etcusa.com/etc-announces-appointment-of-joseph-f-verbitski-jr-as-chief-financial-officer/> for more.

ALPA: The Air Line Pilots Association President, Capt. Joe DePete issued a statement regarding the resignation of U.S. Federal Aviation Administration (FAA) Administrator Steve Dickson. He thanked Administrator Dickson for his service and leadership, and stated that they look forward to the nomination and confirmation of a new administrator. Please see <https://www.alpa.org/news-and-events/news-room/2022-02-17-faa-administrator-dickson-resignation> to read the full statement.

IFALPA: The International Federation of Airline Pilots (IFALPA) recently published a safety bulletin on GNSS interference in aircraft. They state “GNSS signal interference (whether intentional or unintentional) can occur at any time, with or without prior notice. Flight crews should be aware of the potential risk and plan for alternative procedures as necessary.” Please visit <https://www.ifalpa.org/publications/library/gnss-interference-on-aircraft—3566> to read the full bulletin.

KBR: KBR announced it has been awarded a contract to provide professional services to Shell Global Solutions International B.V. for hydrogen liquefaction development. KBR will provide technical solutions as part of concept studies to advance technology for large scale hydrogen liquefaction – an alternative method for long distance renewable energy transport. Liquid hydrogen (LH2) also provides a versatile energy solution for a wide variety of end uses. Please see <https://www.kbr.com/en/insights-news/press-release/kbr-support-shells-strategic-ambition-hydrogen-liquefaction> for more.

MedAire: Asian Sky Quarterly recently interviewed Hany Bakr, MedAire’s Senior Vice President of Aviation and Maritime Security. They spoke about MedAire’s security, assessments, consulting, and assistance solutions, including health and medical risk management. Please visit <https://www.asianskymedia.com/interviews/asq25-medaire> for the complete interview.

MEETINGS CALENDAR

Please check the websites of meetings listed to see updates.

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

HFACS Workshops: Workshops on the The Human Factors Analysis and Classification System (HFACS). For more, 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.