



# Ever Upward: July 2021

## Proposed Change to the Bylaws

In accordance with Article XII of the Bylaws of the Aerospace Medical Association, the following proposed change to the Bylaws is printed herein. The change will be voted upon at the next Annual Business Meeting to be held Tuesday, May 19, 2020. The meeting is open and all members are encouraged to attend (no lunch purchase is necessary to participate in the meeting).

The omissions are listed as strikethroughs. The additions are italicized and underlined. A flowchart of the proposed change is included for clarification but will not be included in the Bylaws.

### ARTICLE III. MEMBERSHIP

#### SECTION 2. ~~Expulsion of Members and Appeal Review of Ethical Concerns.~~

~~A member may be expelled for cause or conduct which the Council deems contrary to the best interests of the Association. For any cause other than non-payment of dues, expulsion may occur only after the member in question has been advised in writing of the complaint and been given an opportunity to respond. Such member shall be notified by the Executive Director and entitled to a hearing before the Executive Committee. The Executive Committee shall hear the case and provide a ruling. The Executive Committee shall have, but not be limited to, the following powers: dismissal of the complaint, censure, probation for a period not to exceed two years, suspension for a period not to exceed three years, or expulsion of a member, as the findings warrant. A two-thirds vote of the full membership of the Executive Committee is required for any ruling. The aggrieved member shall have the right of appeal to the Council. A two-thirds vote of the full membership of Council is required to modify or reverse the action of the Executive Committee. Failing to achieve modification or reversal from the Council, the action of the Executive Committee is confirmed. Action of the Council is final.~~

A. Application: The Ethics Policy of the Association, as defined in the Policies and Procedures Manual, shall apply to all categories of Association members.

B. Ethical Concerns:

- 1) An ethical concern should be resolved at the lowest level possible within the Association.
- 2) Should the ethical concern not be resolved at lower levels, the concern may be elevated to the Executive Committee using the process delineated below.

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- 3) Ethical concerns addressed through this process shall be limited in scope to conduct deemed contrary to the best interests of the Association, to include the business and governance of the Association, the annual scientific meeting, and the Association's official journal. The Executive Committee shall determine if the concern is within the scope of this process.
  - 4) Any member may raise an ethical concern regarding another member who is believed to have violated the Ethics Policy of the Association, to include the business and governance of the Association, the annual scientific meeting, and the Association's official journal. The Executive Committee shall determine if the concern is within the scope of this process.
  - 5) The Executive Committee shall initially review the written ethical concern to determine the validity of the concern and whether a formal investigation is warranted. The Executive Committee may dismiss the concern if it is deemed not valid or outside of the scope of this process.
  - 6) If the Executive Committee determines the ethical concern has validity and is within the scope of the process, the concern will be referred to the Ethics Body for investigation as described in the Policies and Procedures Manual.
  - 7) The respondent shall be advised in writing of any ethical concern regarding him or her and be provided an opportunity to respond to the Ethics Body and the Executive Committee.
  - 8) Once the investigation is complete, the Ethics Body shall provide a summary report of the investigation to the Executive Committee.
  - 9) For any ethical concern regarding a member of the Executive Committee, the Council will assume the role of the Executive Committee in this process.
- C. Administrative Action:
- 1) Upon receipt of the report from the Ethics Body, the Executive Committee shall determine the appropriate administrative action.
  - 2) The Executive Committee shall have, but not be limited to, the following powers: dismissal of the ethical concern, censure, probation for a period not to exceed two years, suspension for a period not to exceed three years, or expulsion of a member, as the findings warrant.
  - 3) A two-thirds vote of the full membership of the Executive Committee is required for any ruling.
- D. Appeal Process:
- 1) Proposed administrative actions may be appealed to the full Council and shall be submitted in writing to the Executive Director.
  - 2) Should an appeal be requested, no administrative action shall proceed until the appeal process is complete.
  - 3) A two-thirds vote of the full membership of Council is required to modify or reverse the action of the Executive Committee. Failing to achieve modification or reversal from the Council, the action of the Executive Committee is confirmed. Action of the Council is final.

See 'Bylaws,' p. N28

Send information for publication in this newsletter to: Journal Department, AsMA; [rtrigg@asma.org](mailto:rtrigg@asma.org)

**Rationale:** While Article III Section 2 Expulsion of Member and Appeal describes the process for expulsion of a member for cause or conduct the Council deems contrary to the best interests of the Association, it does not delineate a means to investigate allegations against a member. The Executive Committee has received several ethical concerns in the last few years that required each President to determine how to investigate the allegations. This change creates a process for investigation using an Ethics Body with the responsibility to investigate allegations of unethical behavior by a member. More detail on the membership of the Ethics Body and the process will be described in the Policies and Procedures Manual.

## News of Members

### Jones Quoted in the WSJ

Prof. Jeffrey A. Jones, M.D., a Fellow and Life Member of AsMA, was quoted in a Wall Street Journal article on the lack



of regulation of suborbital space travel. Unlike commercial flight, there is no protection from the Federal government for spaceflight participants. Dr. Jones, a flight surgeon who has worked with NASA astronauts, was interviewed regarding the risks spaceflight passengers may face. Unlike on most airline flights, passengers can experience more serious medical issues such as vomiting from the weightlessness or

injury that can occur when gravity returns if a passenger isn't strapped in.

Please visit <https://www.wsj.com/articles/jeff-bezos-and-other-space-tourists-will-enter-sparse-regulatory-territory-11623325460> for the entire article (a subscription is needed).

### Cinelli Elected an IEEE AdCOM Member

Ilaria Cinelli, Ph.D., a Fellow of AsMA, has been elected as an Administrative Committee (AdCOM) member, Representative of Europe, of the IEEE Engineering in Medicine and Biology Society (EMBS), one of the largest international societies of biomedical engineers. AdCOM is the governing body of EMBS and committee member responsibilities are to attend AdCOM meetings, participate in AdCOM activities, submit reports for committees they chair and/or as delegates or representatives, address the needs of members in their geographical region, and maintain contact with local chapters. Dr. Cinelli will serve for 3 years. She is currently a Business Developer at AIKO – Autonomous Space Missions in Piedmont, Italy. She holds a Bachelor's and Master's degrees in Biomedical Engineering from the University of Pisa (Italy) and a structured Ph.D. in Neural Engineering from the National University of Ireland Galway (Republic of Ireland). She is also a graduate of the Space Studies Program run by the International Space University at TU Delft (The Nether-



lands). More recently, she completed a Postdoc at Tufts University (USA) in Neuromodulation. She is a Member-at-Large of AsMA's Council and was the 2019 President of the Aerospace Human Factors Association.

### Leino Promoted



Adjunct professor Tuomo K. Leino, M.D., Ph.D., was promoted to Colonel, MC. Col. Leino is pilot-physician with 1300 military flight hours and is currently working in Air Force Command Finland. He is leader of research group at National Defence University Finland focusing on aerospace medicine and human performance.

## In Memoriam: Brig. Gen. (Ret.) Lloyd Dodd

AsMA HQ Staff were saddened to hear of the passing of Lloyd Dodd, Brig. Gen. (Ret.), M.D., M.P.H., MMM, and



Fellow of the Aerospace Medical Association (AsMA). He had been an AsMA member for over 40 years. Born in Los Angeles, CA, he earned a B.A. from the University of Southern California, Los Angeles, CA, in 1969 and his M.D. from Baylor College of Medicine, Houston, TX, in 1973. From 1973-1974, he served a rotating internship at Kern General Hospital, Beaversfield, CA.

Dr. Dodd began his military career in 1976, serving in the U.S. Air Force as a general medical officer at Hickam AFB, HI. He then became Officer-in-Charge at the Wheeler Clinic, Wheeler AFB, HI; during this time he also served at the Lojwa Clinic, Enewetak Atoll, Marshall Islands. He attended Squadron Officers School in 1977 and took the U.S. Air Force Aerospace Medicine Primary Course in 1978 at Brooks AFB, TX. In 1979 he was promoted to Chief of Aerospace Medicine and later Officer in Charge of the Emergency Room at Vandenberg AFB, CA. He earned an M.P.H. at the University of Texas at San Antonio in 1982. He then served a residency from 1982 to 1983 at the Air Force School of Aerospace Medicine at Brooks AFB. In 1983, he took the position of Chief of Aeromedical Services, then Deputy Chief, Hospital Services, and later Officer in Charge of the Emergency Room at Dyess AFB, TX.

From 1985-1987, Dr. Dodd served as Commander, 93<sup>rd</sup> Strategic Hospital, Castle AFB, CA, during which time he be-

*See 'Dodd,' p. N29*

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came a medical member for the EC-135 aircraft accident investigation at Eielson AFB, AK. He became Commander of the 857<sup>th</sup> Strategic Regional Hospital, Minot AFB, ND, in 1988 and then Director of Professional Services and later Deputy Command Surgeon, Headquarters Pacific Air Forces, Hickam AFB, HI, in 1989. After that, he served as Commander, 3<sup>rd</sup> Medical Center, Elmendorf AFB, AK, from 1991-1993. In 1993, he transferred to Wright-Patterson AFB, OH, to become Commander, 645<sup>th</sup> Medical Group, U.S. Air Force Medical Center. He was promoted to Air Surgeon, National Guard Bureau, Headquarters U.S. Air Force, Washington, DC, in 1995. In 1997 he took the position of Command Surgeon, Air Force Space Command, Peterson AFB, CO. In 1999 he transferred to Brooks City-Base, TX, and served as Commander, 311<sup>th</sup> Human Systems Wing. He became Command Surgeon, NORAD and USNORTHCOM, Peterson AFB, CO, in 2003 and retired from the Air Force in July 2005.

Dr. Dodd was Board-certified in Aerospace Medicine, Family Practice, Emergency Medicine, and Medical Management. His awards and honors included the Humanitarian Service Medal, the National Defense Service Medal with bronze star, the Air Force Commendation Medal, the Meritorious Service Medal with oak leaf cluster, the Legion of Merit with oak leaf cluster, the Defense Superior Service Medal, and the Distinguished Service Medal. He was also a member of the American Society of Aerospace Medicine Specialists and the Society of U.S. Air Force Flight Surgeons.

## MEETINGS CALENDAR

Please check meeting websites for changes.

**HFACS Workshops;** ONLINE. Workshops on 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 and visit <https://www.enrole.com/erau/jsp/course.jsp?categoryId=558570F8&courseId=OHFA> for online. Dates and locations are as follows: July 13-14, 2021 @ Las Vegas, NV; September 14-15, 2021 @ Daytona Beach, FL; October 13-14, 2021 @ Online/Virtual.

**August 3-6, 2021;** Society of U.S. Naval Aerospace & Operational Physiologists (SUSNAOP) Lecture Series on Military Pilot Optimization; Virtual and In-Person. For more info, please visit <https://www.susnaop.com/>.

**Sept. 22-24, 2022;** 1st International Conference of Aerospace Medicine (ICAM 2022); Paris, France. For more info, [please click here](#).

**Sept. 23-25, 2021;** Civil Aviation Medical Association (CAMA) Annual Scientific Meeting; Embassy Suites - Brooks, San Antonio, TX. Please see the [meeting schedule](#) for more details.

**Oct. 25-27, 2021;** 4th International Conference and Expo on Aerospace and Aeronautical Engineering; Valencia, Spain. For more info, please visit the website at [www.scientificfederation.com/aerospace-aeronautical-engineering/](http://www.scientificfederation.com/aerospace-aeronautical-engineering/).

**Oct. 25-29, 2021;** International Astronautical Congress (IAC) 2021; Dubai, United Arab Emirates. For more info, visit <https://www.iafastro.org/events/iac/iac-2021/>.

## New Members

AsMA welcomes 30 new members in July.

- Aderoba, Babajide; Newcastle Upon Tyne, Northumberland, United Kingdom
- Borgohain, Juhi; Jorhat, Assam, India
- Burch, David; Wright-Patterson AFB, OH, United States
- Carter, Anderson; Bemidji, MN, United States
- Cornelissen, Simon; Utrecht, Netherlands
- Cummings, Steven; Amarillo, TX, United States
- Dequaire, Julie; Oxford, Oxfordshire, United Kingdom
- Douglas, Brad; Orlando, FL, United States
- Ettingoff, Cole; Memphis, TN, United States
- Fillioe, Seth; Avon Lake, OH, United States
- Gomez, Courtney; Seattle, WA, United States
- Hampton, John; Colorado Springs, CO, United States
- Ibrahim, Lina; Philadelphia, PA, United States
- James, Caleb; Dayton, OH, United States
- Jones, James; Los Angeles, CA, United States
- King, Lucas; Regina, Saskatchewan, Canada
- Klaus, Adam; Scranton, PA, United States
- Mathew, Alvin; Miami, FL, United States
- Nibhanupudy, Tara; Boston, MA, United States
- Pant, Pankaj; Noida, Uttar Pradesh, India
- Peck, Nathan; Seattle, WA, United States
- Pipraiya, Rahul; Bangalore, Karnataka, India
- Rippeth, Julie; Scottsdale, AZ, United States
- Rodriguez, Veronika; Lebanon, PA, United States
- Sari, Ane; Banjarmasin, South Kalimantan, Indonesia
- Smith, Kathleen; Collierville, TN, United States
- Sturdevan, Aska; FPO, AP, United States
- Tapia, Dayse; Staten Island, NY, United States
- Tayal, Pranav; Dublin, OH, United States
- Vlcek, Christian; Montreal, Quebec, Canada

AsMA welcomes back 4 members.

- Grubb, Jefferson; Chesapeake, VA, United States
- Modi, Veeshal; Tampa, FL, United States
- Steno, Nathalie; St. Albert, Alberta, Canada
- Storch, Chad; Rapid City, SD, United States

## CAMA Program During AsMA Meeting

The Civil Aviation Medical Association will present three medical education programs during the Aerospace Medical Association Annual Scientific Meeting in Denver, CO, August 29-30, 2021. The combined total medical education presentation time for the CAMA Sunday program and the CAMA Luncheon is 5.00 hours.

**CAMA Sunday Lectures** – 4 hours comprised of four different presentations; August 29, 2021; 8:30 am to 12:45 AM; Denver Sheraton Hotel Downtown; Room number TBD

**CAMA Luncheon Keynote Medical Education Presentation;** August 30, 2021; CAMA Luncheon 12:00 Noon to 2:00 PM; Presentation (1 Hour) 1:00 PM to 2:00 PM; Denver Sheraton Hotel Downtown; Room number TBD

For more information on these, please see the schedule posted at <https://www.asma.org/asma/media/AsMA/pdf-meetings/2021%20Reno/CAMA-programs-AsMA-annual-meeting.pdf>.

## NEWS OF CORPORATE MEMBERS

### Mayo Clinic Pivots Cancer Treatment to COVID-19

At the beginning of 2020, everyone in research and medicine who could pivot to focus on COVID-19 did so. At Mayo Clinic, it was a sort of controlled scramble. With a united science and medical infrastructure, Mayo Clinic researchers raced through the scientific steps to repurpose a cancer therapy into a clinical trial for COVID-19 treatment in less than a year. This treatment came out of a drug used to treat extreme immune responses to a cancer therapy called chimeric antigen receptor-T cell therapy, or CAR-T cell therapy. The immune response, known as CAR-T cytokine storm or cytokine release syndrome, is prompted by a tidal wave of molecules, called cytokines, released by the T cells to organize an immune response. This cytokine storm can cause organ damage and even death. A drug called lenzilumab was found to block granulocyte monocyte colony-stimulating factor (GM-CSF), which is what stimulates the immune system and drives the cytokine storm. When the pandemic started and doctors at Mayo Clinic read of cytokine storms in COVID-19 patients being driven by GM-CSF, they thought of lenzilumab and began the process of testing the drug for use in treatment of COVID patients. The drug was taken through to full clinical trial within a year and is now being used as a COVID treatment.

—Please visit <https://discoverysedge.mayo.edu/2021/06/22/cancer-to-covid-19/> to read the complete story.

### ALPA Calls for Space Integration Strategy

Air Line Pilots Association, Int'l (ALPA), President Capt. Joe DePete testified before the U.S. House of Representatives Transportation and Infrastructure Subcommittee on Aviation in mid-June on the need for the Federal Aviation Administration (FAA) to continue working with industry and labor stakeholders to create a national space integration strategy that will ensure the safety of the national airspace, improve commercial spaceflight efficiency, and reduce emissions. Airline pilots face operational issues involving spaceflight, as recently demonstrated by uncontrolled space debris reentry events. Capt. DePete emphasized ALPA's focus on ensuring that no new risks to airline operations are introduced by space operations and called for a national space integration strategy. Additionally, ALPA called for the FAA to enhance collaboration by creating an advisory structure that brings together commercial space, drone, and aviation operators, all of which use the airspace but currently provide input separately.

—Please see <http://www.alpa.org/news-and-events/newsroom/2021-06-16-national-space-integration-strategy-for-more-on-this>.

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### NIOSH Announces Screenings for Coal Miners

In September 2021, the National Institute for Occupational Safety and Health (NIOSH) will offer a series of free, confidential health screenings to coal miners as part of the Coal Workers' Health Surveillance Program (CWHSP). The screenings are intended to provide early detection of coal workers' pneumoconiosis (CWP), also known as black lung, a serious but preventable occupational lung disease in coal miners caused by breathing respirable coal dust. The health screenings are provided through the state-of-the-art NIOSH mobile testing units at convenient community and mine locations. This year's screenings will be held from September 9 through September 24 in areas throughout southern West Virginia. Screenings include a work history questionnaire, an X-ray, a respiratory assessment questionnaire, and blood pressure screening. The screenings typically take about 15 minutes and each individual miner is provided with their results. By law, each miner's results are confidential. Individual medical information and test results are protected health information and not publicly disclosed. Spirometry, a common breathing test, will not be conducted during this year's survey.

—Please visit <https://www.cdc.gov/niosh/updates/upd-06-23-21.html> to read more about this.

### KBR Supports Digital Forensics

As digitalization becomes ubiquitous, it's imperative that police are equipped with the modern, innovative forensic capabilities they need to better serve and protect the public. Since 2017, KBR has been working to meet that need in the U.K., acting as delivery partner for the government-funded Transforming Forensics (TF) Programme. TF facilitates the design and creation of enhanced forensic capabilities that in turn enable the criminal justice system to provide better services. KBR has been instrumental to the program's success, delivering the coordinated, advanced products and services required by law enforcement officials to meet the demands of today and the future. Through TF, KBR played a key role in the creation of the Forensic Capability Network (FCN), U.K. policing's new national networked approach to forensic science. It has also driven the development of FCN Xchange, the first ever national digital platform for forensics in UK policing, and is helping police forces in England and Wales improve how they respond to serious rape and serious sexual offences (RASSO) through a new project announced by the U.K. government in mid-June.

—Please see <https://www.kbr.com/en/insights-events/stories/kbr-using-digitalization-help-transform-forensics-and-support-victims-crime-for-details-on-these-projects>.

See 'Corporates,' p. N31

#### Save the Date

4th International Conference and Expo on Aerospace and Aeronautical Engineering; October 25-27, 2021; Valencia, Spain. Visit <https://www.scientificfederation.com/aerospace-aeronautical-engineering/> for more.

## Serco Supports RAN Submarine Rescue Exercise

For more than 20 years, Serco Australia has supported the Royal Australian Navy (RAN) in undertaking the Collins Class submarine escape and rescue exercise, Black Carillon. Conducted off the West Australian coast, exercise Black Carillon tests Collins Class submarine escape and rescue capability. Following Serco's participation in last year's extensive exercise, subsequent operational activities held this year involved one of the largest Serco-operated ships – MV *Stoker*. The escape and rescue simulation involved deploying a Submarine Rescue System submersible to rescue crew from a disabled submarine before being lifted onto the deck of the MV *Stoker*. A subsequent operational activity was conducted throughout April and May to test lessons learned from exercise Black Carillon whilst continuing to refine the proficiency of the ship's professional support crew.

—Please visit <https://www.serco.com/aspac/news/media-releases/2021/serco-supports-ran-submarine-rescue-exercise-for-more-than-20-years> to read the entire release.

## CAMA Annual Meeting

The 2021 Civil Aviation Medical Association (CAMA) Annual Scientific Meeting will take place at the Embassy Suites - Brooks, San Antonio, TX, on September 23-25, 2021. Registration will open in early May. More info is available at <https://civilavmed.org/annual-meeting/>.

## Corporate News Bites

**IFALPA:** The International Federation of Air Line Pilots' Associations (IFALPA) recently released two position papers – one on CAVS-CDTI assisted visual separation and one on interval management. CAVS-CDTI is a way for pilots to maintain separation between their own plane and preceding planes during visual approach procedures. The position paper notes IFALPA's belief that CAVS should only be used in visual meteorological conditions and out-of-the-window tracking of preceding aircraft should be the primary means of ensuring separation. The second position paper is about interval management and reflects IFALPA's beliefs that air traffic control should remain responsible for separation and pilot workload should not be increased by requiring them to be responsible. *To read both, please visit <https://www.ifalpa.org/publications>.*

## FAA AME Seminars

August 6–8, 2021	Virtual, Zoom	Refresher
Sept. 23–25, 2021	San Antonio, TX	CAMA
Oct. 18–22, 2021	Oklahoma City, OK	Basic
Nov. 19–21, 2021	Albuquerque, NM	Refresher

Please check the [FAA website](#) for more information.  
**PLEASE NOTE: There is NO seminar being held in conjunction with AsMA's 2021 meeting in Denver.**

## A Note Regarding the Online Journal

The online version of the June issue of *Aerospace Medicine and Human Performance* (AMHP) is delayed. The July issue will also be delayed. These delays are due to ongoing disruptions from COVID-19 at the India-based typesetters and the change to a new typesetting company used by our publishing company. We and our publishing company are doing everything possible to get June 2021 posted and to get July published as soon as possible.

**We apologize for the inconvenience and thank you for your patience during these difficult times.**