



Ever Upward: April 2019

Associate Fellows Announced

The following members of the Aerospace Medical Association have achieved Associate Fellow status and were approved by the Executive Committee: David Andrus, Brent Barker, M. Bradley Brough, Eric Chumbley, Stephen Fischer, Michael Gallagher, Gabriel Gizaw, Sarper Karakucuk, Young Hwan Kwon, David Lerner, Mark McPherson, Kristian Mears, Robert Mulcahy, Joanna Nelms, Tony Schiemer, and Emmanuel Urquieta.

AsMA Members Publish Article on Civilian Spaceflight

Jan Stepanek, M.D., Rebecca Blue, M.D., and Scott Parazynski, M.D., have published an article entitled "Space Medicine in the Era of Civilian Spaceflight" in the *New England Journal of Medicine*. The article discusses the field of commercial spaceflight and the fact that it will allow people with preexisting medical conditions to fly into space. Decisions regarding spaceflight participants' ability to safely fly will mostly fall to clinicians who may not be familiar with the challenges of spaceflight. The article discusses these challenges, both physical and psychological, the limitations to medical support onboard a spacecraft, how the current data is based on healthy, mostly male astronauts and, therefore, may not be applicable to the general public, and medicolegal perspectives. The article is available to subscribers at <https://www.nejm.org/doi/full/10.1056/NEJMra1609012>.

Drs. Stepanek and Parazynski are Fellows of the Aeromedical Association (AsMA) and Dr. Blue is an Associate Fellow. In addition, Dr. Blue is a recipient of AsMA's Arnold D. Tuttle Award. All three have published articles in *Aerospace Medicine and Human Performance*.

New Members

AsMA welcomes 27 new members in April.

- Adams, Christopher; Cumberland Gap, TN, United States
- Damato, Elizabeth; Cleveland, OH, United States
- Danielson, Richard; Friendswood, TX, United States
- Ellis, David; Wright-Patterson AFB, OH, United States
- Epstein, Caroline; Fort Lauderdale, FL, United States
- Erdil, Pinar; Kucukcekmece, Turkey
- Eriksson, Mattias; Lyckeby, Sweden
- Ernst, Angela; Delta, British Columbia, Canada
- Goodman, Jane; Oklahoma City, OK, United States
- Harkrider, Franklin; Gainesville, GA, United States
- Hernandez, Christine; Pensacola, FL, United States
- Hwang, Albert; Galveston, TX, United States
- Jones, Nicole; Galloway, NJ, United States
- Khurana, Anmol; West Chester, PA, United States
- Kim, Gunhee; Yeongdeungpogu, South Korea
- Kruse, Robert; Des Moines, IA, United States
- Kunkel, Stephen; Texas City, TX, United States

- Monhollon, Regan; Roca, NE, United States
- Mormann, Benjamin; Boston, MA, United States
- Nagrebetsky, Alexander; Boston, MA, United States
- Nguyen, Damian; Salisbury, South Australia, Australia
- Schenk, Christopher; Crawley, West Sussex, United Kingdom
- Schmidt, Caleb; Boulder, CO, United States
- Schwertz, Hansjorg; Salt Lake City, UT, United States
- Sizemore, Gina; Petersburg, WV, United States
- Wolfe, John; Conway, AR, United States
- Yokota, Koshi; Tskuba-Shi, Japan

Obituary Listing

AsMA was saddened to hear of the passing of **David W. Yacavone, D.O., FAsMA**, in early March. Born in Newark, NJ, he graduated from Seton Hall University, first with a B.A., then an M.A., in 1966 and 1968. He earned his D.O. at the Chicago College of Osteopathic Medicine in 1974 and served an internship at Chicago Osteopathic Medical Center from 1974 to 1975. He graduated from the Naval Aerospace Medical Institute in 1977. A Captain in the Navy, he served as Senior Medical Officer aboard the *USS Eisenhower* and was instrumental in its redesign when it became the first aircraft carrier to accommodate female crew. When he retired, he took a position at the VA Hospital in Hampton, VA. Within AsMA, he served on the Membership and Scientific Program Committees, was a reviewer for the Blue Journal, and was Secretary for the Society of U.S. Naval Flight Surgeons. An online obituary can be found at <https://www.legacy.com/obituaries/pilotonline/obituary.aspx?n=david-william-yacavone&pid=191800333&fhid=5773>.

TRUMBO 5K FUN RUN/WALK

This year's Richard B. "Dick" Trumbo Preventive Medicine 5K Fun Run/Walk will take place on Monday, May 6, 2019, at 6 AM.

- The event will be conducted at Sunset Park, 2601 E. Sunset Rd, Las Vegas, NV 89120 (10-15 mins from Rio Hotel).
- Tickets need to be purchased in advance.
- Buses will pick up participants at 5:15 AM at Pavilion Circle (one pickup time only).
- Participants must sign waiver of liability form prior to the event.
- The top three female and male finishers will be identified and times recorded – all others should keep their own time.
- The top three female and male finishers will be recognized prior to the Reinartz Lecture on Tuesday, May 7.
- UTMB Aerospace Medicine Residency Program is providing on-site medical coverage and T-shirts for all participants.
- Buses will transport participants back to the Rio Hotel.

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

CME and MoC Now Included!

The cost of CME and MOC credits are now included in the registration cost for the annual meeting. Attendees will receive a survey after the meeting which will ask if they wish to claim CME or MOC credits.

Read Current News Online!

The News pages are updated regularly as we receive news. Members: check the Job Fair: new jobs are posted monthly!

Visit Us on Social Media!

Connect with AsMA online via any of the accounts below:

Twitter: https://twitter.com/aero_med

FB: www.facebook.com/AerospaceMedicalAssociation

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)

NEWS OF CORPORATE MEMBERS

Mayo Clinic Seeking Fellowship Applicants

Mayo Clinic and Arizona State University's Walter Cronkite School of Journalism and Mass Communication are accepting applications for a fellowship program. As part of this program, journalists from across the country will receive intensive training to cover medicine. The Mayo Clinic-Cronkite Fellowship is part of the Mayo Clinic and Arizona State University Alliance for Health Care, a transformative research partnership designed to improve all aspects of health care delivery through research and collaboration. The fellowship will bring up to 15 leading professional journalists to the school and Mayo Clinic's Arizona campus in May for five days of interactive workshops and seminars. Selected fellows will explore augmented human intelligence, personalized medicine, regenerative medicine and more. Training sessions will include nonnarrative video, narrative writing, and investigative reporting. The deadline to apply is May 15.

—Please see <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-asu-medical-journalism-fellowship-applicants-sought/> for more on this.

KBRwyle Wins Multiple NASA Awards

KBR, Inc. announced that KBRwyle has won multiple prestigious prime contractor awards from NASA in recognition of KBRwyle's support of the agency's small business program. NASA named KBRwyle as the Large Business Prime Contractor of the Year at both Goddard Space Flight Center and Johnson Space Center for its overall contract performance, participation in NASA-related outreach events, sound small business practices, and use of small business contractors. KBRwyle's services at Goddard Space Flight Center include mission operations for on-orbit spacecraft and specialized science support in the areas of geodynamic, geomagnetic, geophysical, and atmospheric investigations of solar system bodies. At Johnson Space Center, KBRwyle provides spaceflight operations development, preparation, and execution; mission systems support; and human spaceflight activities. KBRwyle experts staff every flight discipline console in the Mission Control Center and assist with every operational aspect of NASA's current human spaceflight programs. NASA also honored KBRwyle as the recipient of the Mentor-Protégé

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Agreement of the Year award. KBRwyle received the award for its mentorship of MORI Associates at Ames Research Center where KBRwyle provides scientific research, technology, and application development and program management solutions. During its 2-year agreement, KBRwyle successfully provided subcontractor MORI Associates with training and guidance on business growth strategies, business development, quality assurance certification, and other topics.

—Please see <https://kbr.com/about/newsroom/press-releases/2019/03/14/kbrwyle-wins-prestigious-nasa-prime-contractor-awards-at-three-nasa-centers> to read more about this.

AOPA President Honored with Award

Aircraft Owners and Pilots Association (AOPA) President Mark Baker was awarded the Laureate for Leadership in the Business Aviation category by *Aviation Week* at a gala at the National Building Museum in Washington, DC, in mid-March. He was nominated by the staff of *Business and Commercial Aviation* magazine and the other editors at the Aviation Week network of publications. His nomination read: "From helping create flying clubs to welcoming drone pilots, AOPA under Baker has addressed declining private pilot numbers with initiatives including providing aviation education to high schools, lobbying for medical certification reform and helping rusty pilots get back in the cockpit."

—Please see <https://www.aopa.org/news-and-media/all-news/2019/march/18/aviation-week-recognizes-aopas-baker-with-laureate> for more on this.

ALPA President Joins AFL-CIO Executive Council

Capt. Joe DePete, president of the Air Line Pilots Association, Int'l (ALPA), was appointed to the Executive Council of the American Federation of Labor-Congress of Industrial Organizations (AFL-CIO) this week at the council's annual winter meeting. The AFL-CIO Executive Council is composed of 55 democratically elected officials and the 3 top officers of the AFL-CIO. The council is tasked with guiding the work of the federation, which represents 12.5 million working men and women. In addition to the Executive Council, Capt. DePete was also appointed to serve on the International Committee as well as the Legislative and Policy Committee.

—Please visit <http://www.alpa.org/news-and-events/newsroom/2019-03-15-alpa-president-captain-joe-depete-joins-AFL-CIO-exec-council> to read more.

See 'Corporates,' p. N13

MedAire Co-Publishes Paper on Aviation Security

MedAire and Control Risks have released a joint position paper on best practices to proactively prepare for – and mitigate – risks within the aviation industry. The paper, *A Holistic Approach: Insight, Preparedness and Assistance*, proposes that aviation organizations incorporate these three critical elements to best secure their resources, operations and people. The paper supports calls from leading industry associations, including IATA and ICAO, for stronger partnerships between industry stakeholders to develop measures to counter threats to aviation. The three elements featured in the paper are core to an integrated approach to aviation security.

—Please visit <https://www.medaire.com/about/news/2019/02/19/aviation-security-best-practices-holistic-approach> to read more about this.

APA Praises New Rules on Lithium-Ion Batteries and Cells

The Allied Pilots Association (APA) expressed its appreciation to federal regulators and lawmakers for moving forward with a ban on shipping lithium-ion cells and batteries as cargo on passenger aircraft. The U.S. Transportation Department's Pipeline and Hazardous Materials Safety Administration (PHMSA) unveiled the new rules in response to legislation mandating them by early 2019. The rules mirror those already in force in other countries. A 2015 working paper by plane makers, including Boeing Co., reported that current firefighting systems were not adequate to “suppress or extinguish a fire involving significant quantities of lithium batteries.” PHMSA said it was finalizing the rules on an expedited basis to address “an immediate safety hazard.”

—Please see <https://www.alliedpilots.org/News/ID/6725/Allied-Pilots-Association-Praises-Federal-Authorities-for-Addressing-Unacceptable-Risk-Posed-by-Lithium-Ion-Cells-and-Batteries> for more on this.

WANT MORE INFO ON THE ANNUAL MEETING?



This year's Annual Scientific Meeting will be in Las Vegas, NV, May 5-9, 2019. To register for the hotel and meeting, please visit <https://www.asma.org/scientific-meetings/asma-annual-scientific-meeting/register-for-meeting-and-hotel-room>. For more information, visit www.asma.org/scientific-meetings/asma-annual-scientific-meeting - links are in the left-hand column.

NOTE: CME/MOC are now included in the Registration fee. Attendees will receive a survey after the meeting.

Corporate News Bites

NKI: NeuroKinetics' (NKI's) I-Portal® Portable Assessment System (I-PAS™) was recently featured in a story from KDKA in Pittsburgh. The story covers how the I-PAS is being used at River Therapies, a Pittsburgh physical therapy company, to track impairment from concussion and progress during therapy. To read the entire story, please visit <https://pittsburgh.cbslocal.com/2019/03/11/ipas-eye-movement-concussion-test/>.

Monash: Prof. David Newman of Monash University recently traveled to PNG's Civil Aviation Safety Authority to conduct refresher aviation medical training to their doctors. The 1-week course covered altitude, environmental, and fatigue issues that are specific to aviation. Australian High Commission Counsellor, James Passmore, said this is an example of the strong relationship between the two countries in the transport sector. To see this announcement, please see <https://www.monash.edu/medicine/sphpm/units/avmed/news>.

Martin-Baker: Martin-Baker has now supplied 500 US16E Ejection Seats to Lockheed Martin for the F-35 Lightning II aircraft, spread across the three production lines: to Fort Worth, to Leonardo Cameri, and to Mitsubishi Heavy Industries Nagoya. LM UK's CEO joined Martin-Baker's VP of Business Development to mark the milestone. To read more and see the photo, please visit <http://martin-baker.com/2019/03/01/martin-baker-delivers-500th-f-35-ejection-seat/>.

UTMB: The University of Texas Medical Branch was recognized for their National Diabetes Prevention Program. They are now the only institution in the Greater Houston Area—and 1 of only 5 in the State of Texas—to be fully recognized by the Centers for Disease Control and Prevention (CDC) for their Diabetes Prevention Program. To see the announcement and photo, please see <https://www.utmb.edu/internalmedicine/news-events/news-article/2019/02/22/turning-the-tide-on-diabetes>.

MEETINGS CALENDAR

May 17-22, 2019; American Thoracic Society Annual Scientific Meeting 2019; Dallas, TX. Visit <http://conference.thoracic.org/> for more.

May 20-23, 2019; ACPM Preventive Medicine 2019; Pittsburgh, PA. For more, visit <https://www.acpm.org/page/pmsessioncall>.

June 27-29, 2019; Undersea and Hyperbaric Medical Society 2019 Annual Scientific Meeting; Wyndham Grand Rio Mar Puerto Rico Golf & Beach Resort. Visit www.uhms.org/meetings/annual-scientific-meeting/uhms-annual-scientific-meeting-information.html for more.

Sept. 17-18, 2019; Aircraft Cabin Air International Conference 2019; Imperial College London, Kensington, London, United Kingdom. For more information, please visit <https://www.aircraftcabinair.com/>.

May-Dec. 2019; Embry Riddle Aeronautical University (ERAU) Human Factors Analysis Classification System (HFACS) classes. ERAU is offering workshops on HFACS. For more info & the dates of the classes, please visit <https://proed.erau.edu/courses/hfacs>.



Naval Postgraduate School

Human Systems Integration Cohorts Begin September 2019!

Deadline for Application is July 1, 2019

The Naval Postgraduate School

offers the nation's premier distance learning

Master of Human Systems Integration (HSI) degree program and
Human Systems Integration Certificate program.

The Human Systems Integration Program is pleased to announce **open registration** for both programs, for all federal government employees (military and civilian) and to defense contractor employees (on a space available basis).

HSI Certificate Program

Program length is one year (four consecutive academic quarters, one course per quarter). Course delivery is asynchronous (with weekly assignments). Graduates earn the NPS HSI Certificate!

Prerequisites for Certificate Program

- Baccalaureate Degree from a regionally accredited college or university
- GPA of 2.2 or better
- One lower level calculus course with a grade of C or better
- Waivers considered

Master's Degree in HSI Program

Program length is two years (eight consecutive academic quarters, two classes per quarter) with plans to have one synchronous and one asynchronous class per quarter. Graduates earn an HSI Certificate, the Master's Degree in HSI, and DAU Course Credits!

Prerequisites for the Master's Program

- Baccalaureate Degree from a regionally accredited college or university
- GPA of 2.2 or better
- One lower level calculus course with a grade of C or better
- Waivers considered

“ All of our airmen, soldiers and seamen have demanding and critical jobs to do that depend on well-designed systems that will work the way that they do - supporting the accomplishment of their tasks rapidly and effectively. *It is critical that we avoid system designs that are obstacle courses of hidden hazards and latent failures.* ”

~ Endsley, 2017

Application Process for Both Programs

- To apply please visit my.nps.edu/web/dl
- Program designators:
 - HSI Certificate Program - 262
 - Master's Degree in HSI - 359

For More Information

HumanSys@nps.edu

HSI Certificate Program: nps.edu/hsicertificate

HSI Master's Degree Program: nps.edu/hsimasters