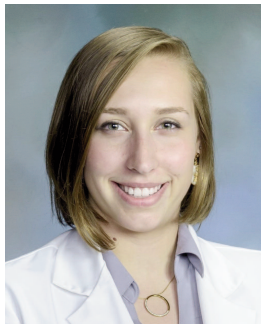




Ever Upward: February 2019

AsMA Fellows Scholarship Winner

The AsMA Fellows Scholarship Committee is pleased to announce their selection of the 2018 scholarship winner.



Kseniya S. Masterova, B.S. (M.D., Ph.D. Student), was the 1st Place winner (\$2,000) for her presentation and publication of a manuscript on "Portable Autorefractors for Detecting Axial Length Changes in Space." Unfortunately, there was no 2nd Place winner (\$1,000) this year.

The AsMA Fellows Scholarship is funded by the AsMA Foundation and is presented annually to two

AsMA members who are students in an aerospace medicine residency program, graduate program in aerospace medicine (Master or Ph.D.), medical certificate or aerospace diploma course, or in a full time education/training program in the allied fields of nursing, physiology, human factors, psychology, ergonomics, and engineering. Selection criteria include delivering a slide or poster presentation as a first author at the AsMA Annual Scientific Meeting and then submitting a manuscript as first author for publication in AsMA's *Aerospace Medicine & Human Performance* (AMHP) journal based on the same topic and/or material covered in the slide or poster presentation. The 1st and 2nd Place Winners are selected by the AsMA Fellows Scholarship Committee based on the highest scientific value, originality, quality and relevance of the applicant's presentation and AMHP manuscript related to the field of aerospace medicine (including allied scientific disciplines). Special consideration is given to those applicants who are at an early stage in their career development. The scholarship monetary awards are used for the purpose of underwriting, in whole or in part, the cost of registration fees, transportation, hotel accommodations, or any other valid fees or expenses incurred by the winners in relation to their attendance at one or more scholarly meetings on topics related to aerospace medicine.

Proposed Bylaws Change

In accordance with Article XII of the Bylaws of the Aerospace Medical Association, the following proposed change to the Bylaws are printed herein. They will be voted upon at the next Annual Business Meeting to be held Tuesday, May 7, 2019. The meeting is open and all members are encouraged

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)

to attend (no lunch purchase is necessary to participate in the meeting).

The omissions are listed as strikethroughs. The additions are italicized and underlined.

ARTICLE II. VISION, MISSION, AND GOALS

D. Goals:

~~(1) Provide governance of the Association to maintain a sound financial structure and ensure continuity of the Association.~~

(1) Provide opportunities for education and promote research.

(2) Provide members opportunities for professional growth and development.

(3) Represent the discipline of Aerospace Medicine to professional, commercial, and governmental organizations and advocate policies and standards.

Governance of the Association is necessary to maintain a sound financial structure and ensure continuity of the Association in service to its goals.

Rationale: Governance of the Association is not a goal, but a means to achieving the other three goals and, as such, should be stated differently.

New Offsite Extreme Medicine Workshop in Las Vegas

Drs. Cheryl Lowry and Brian Pinkston will be providing a new and exciting workshop in Las Vegas at the end of the AsMA 90th Annual Scientific Meeting. **This workshop will be held on Friday, May 10, 2019, and is titled "Introduction to Desert and Extreme Medicine."**

The workshop will be conducted at the Red Rock Canyon National Conservation Area west of the Rio All Suite Hotel. Bus transportation and lunch will be provided as part of the \$200.00 registration fee. Buses will depart the Rio All Suite Hotel at 7:00 AM to make the 30-40 minute trip to the Red Rock Canyon National Conservation Area. The workshop will begin at 8:00 AM and is scheduled to end at 5:00 PM. Buses transportation back to the hotel is also included in the registration fee.

This is intended to be an introductory workshop focused on medicine and expedition support in an extreme (desert) environment. Extreme environments are increasingly used by NASA and other researchers as analogs to long-duration missions. Additionally, adventure travel is becoming increasingly popular. AsMA members may either support or participate in research expeditions and adventure travel. Wilderness Medical Society (U.S.) and World Extreme Medicine (UK)

See 'Extreme Medicine', p. N5

Read Current News Online!

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

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

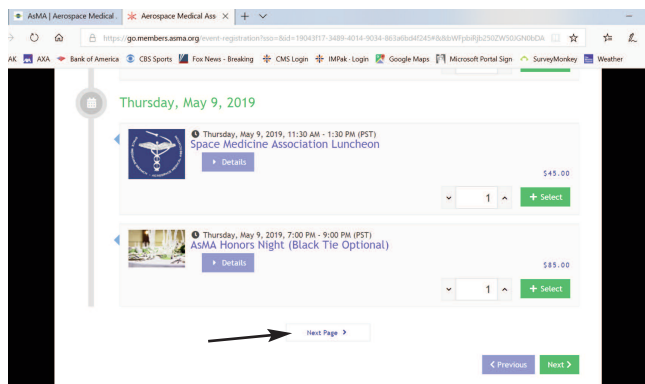
From 'Extreme Medicine', p. N4

are the primary providers of this sort of Continuing Medical Education (CME). Our members would benefit from an opportunity for adventure/expedition CME provided by AsMA, in joint providership with the Undersea and Hyperbaric Medical Society (UHMS), at this conference.

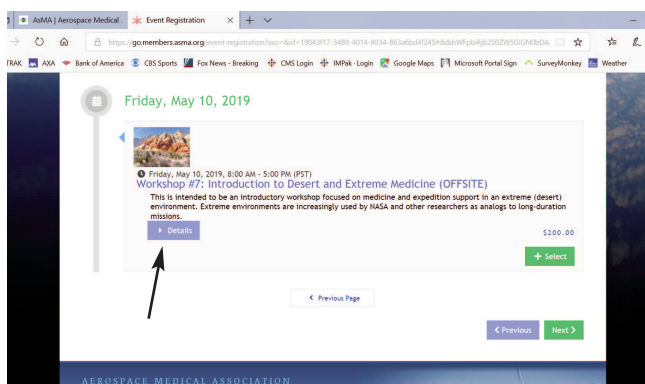
When registering for the AsMA 90th Annual Scientific Meeting online, you will find this workshop on the second page of the list of ticketed events. Screen captures are provided below to assist you in finding the workshop during the online registration process.

At the bottom of the first page of ticketed events, you'll find Thursday, May 9, 2019, with the Space Medicine Luncheon and the AsMA Honors Night functions listed. Just beneath those functions you'll find a link title Next Page> in the middle of the page. Select the Next Page> link (see below).

On the second page, you'll find Friday, May 10, 2019, listed. The only function available on that day is the "Introduction to Desert and Extreme Medicine" Workshop. Click on the +Select button and then click on the Next> button to continue with your online registration (see below). For more details on this exciting new workshop, select the >Details button under the short description (see below). For a brochure on the workshop, please visit https://www.asma.org/asma/media/AsMA/pdf-meetings/2019-annual-meeting/Intro-to-Extreme-Med_brochure.pdf.



Next Page: Click the 'Next Page' button at the bottom of the page in the middle to access the new workshop.



Extreme Medicine Workshop: Click the 'Details' button for a longer description.

Want more info on the annual meeting?

Visit www.asma.org/scientific-meetings/asma-annual-scientific-meeting - links are in the left-hand column.

New Members

AsMA welcomes 31 new members in February.

- Bland, Scott; Greensboro, NC, United States
- Celloe, Annabelle; Kambah, Australian Capital Territory, Australia
- Cornejo, Jose; Cercado de Lima, Peru
- de Saram, Joseph; Sheffield, Derbyshire, United Kingdom
- Dixon, Jordan; Boulder, CO, United States
- Dodge, Robin; Enid, OK, United States
- Eveson, Leanne; Bordon, Hampshire, United Kingdom
- Fahlsing, Christopher; Washington, DC, United States
- Haberman, Mackenzie; Hanover, NH, United States
- Hansen, Daniel; Rutherford, NJ, United States
- Hart, Corey; Fairborn, OH, United States
- Kearns, Devin; Fairchild AFB, WA, United States
- Kerkoff, Steffen; Cologne, Germany
- Lindgren, Kjell; League City, TX, United States
- Lutz, Jacob; Fort Wayne, IN, United States
- Marcus, Nicole; Mount Laurel, NJ, United States
- Mistry, Amit; Oklahoma City, OK, United States
- Oliveira, Edson; Mafra, Portugal
- Patel, Vishal; Davie, FL, United States
- Putman, Esther; Lexington, KY, United States
- Rodriguez, Brian; Galveston, TX, United States
- Schmitz, Jan; Koln, Germany
- Scott, Rachel; Rogersville, MO, United States
- Simonson, Richard; Daytona Beach, FL, United States
- Skinner, Thomas; Lincoln, CA, United States
- Somsel, Elizabeth; Holloman AFB, NM, United States
- Thompson, Ryan; FPO AP, United States
- Wang, Shih-Hao; Taoyuan District, Taiwan
- Weesner, Kathryn; Leawood, KS, United States
- Wheeler, Andrew; Norfolk, VA, United States
- Wusk, Grace; Blacksburg, VA, United States

ERAU Offering HFACS Workshops

The Human Factors Analysis Classification System (HFACS) is recognized as the "Gold Standard" in human factors analysis and classification. Embry-Riddle Aeronautical University (ERAU), recognized worldwide as the pinnacle in aviation and aerospace education, has teamed with HFACS, Inc., to provide specialized human factors training to promote improved human performance and safety. Workshops are being offered on the following dates:

- May 7–8, 2019; Daytona Beach, FL
- July 16–17, 2019; Las Vegas, NV
- September 17–18, 2019; Las Vegas, NV
- December 17–18, 2019; Las Vegas, NV

The intensive, two-day workshops teach updated cutting-edge techniques to help organizations identify the causes of errors and develop preventative measures to lower risk and improve performance. For more information or to register, please visit the ERAU HFACS Workshop site. Registration is available now for all 2019 HFACS Workshops.

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.

ABPM Offers Electronic MoC Exams

Diplomates: the American Board of Preventive Medicine (ABPM) will be offering their Maintenance of Certification exams electronically. This is for all Diplomates certified in any of the ABPM's Specialties of Aerospace Medicine, Occupational Medicine, Public Health, and General Preventive Medicine (collectively as "Specialties") or its Subspecialties of Addiction Medicine, Clinical Informatics, and Undersea & Hyperbaric Medicine (collectively as "Subspecialties") and who are eligible to take a Maintenance of Certification (MOC) examination. The electronic administration of the MOC examination will allow the Diplomate to use his or her own computer that will provide the Diplomate with remote access to an electronic version of the MOC examination for the Specialty or Subspecialty for which the Diplomate is seeking recertification. For more on the electronic exams, please see the press release at <https://www.the-abpm.org/2018/12/27/the-american-board-of-preventive-medicine-will-begin-offering-remotely-proctored-computer-based-administration-of-its-maintenance-of-certification-moc-examinations/>.

Registration is now open for GLEC 2019

The first conference of its kind, the IAF Global Conference on Space for Emerging Countries (GLEC) aims to actively engage emerging countries in the space scene and to bring together the international community. It will take place April 24-26, 2019, in Marrakesh, Morocco.

For more or to register, please visit <http://glec2019.org/>.

Upcoming FAA AME Seminars

Dates	Location	Seminar Type
March 25-29, 2019	Oklahoma City, OK	Basic
May 6-9, 2019	Las Vegas, NV	AsMA
June 10-14, 2019	Oklahoma City, OK	Basic
Aug. 2-4, 2019	Washington, DC	Refresher

PLEASE NOTE: The only FAA seminar AsMA takes registrations for is the one held in conjunction with our annual meeting in May. For all others, please contact the FAA.

Visit: http://www.faa.gov/other_visit/aviation_industry/designees_delegations/designee_types/ame/seminar_schedule/ to learn more.

NEWS OF CORPORATE MEMBERS

Two UTMB Employees Honored

Dr. Gulshan Sharma, UTMB's Chief Medical and Clinical Innovation Officer, has been named a PrimeMover of 2018 by HealthLeaders, a multi-platform media company dedicated to meeting the business information needs of health care executives and professionals. PrimeMovers are defined as executives who are transforming health care financially, clinically and operationally. In addition, Dr. Randall J. Urban has been named principal investigator of UTMB's Clinical and Translational Science Award (CTSA) program. UTMB is one of 62 institutions funded via a National Institutes of Health CTSA. Dr. Urban will build upon the work begun by the outgoing CTSA Principal Investigator Dr. David Herndon.

—Please visit <https://www.utmb.edu/internalmedicine/news-events/news-article/2019/01/08/dr.-gulshan-sharma-named-a-primemover-of-2018> and [https://www.utmb.edu/internalmedicine/news-events/news-article/2019/01/08/dr.-randall-j.-urban-named-principal-investigator-of-utmb-s-clinical-and-translational-science-award-\(ctsa\)-program](https://www.utmb.edu/internalmedicine/news-events/news-article/2019/01/08/dr.-randall-j.-urban-named-principal-investigator-of-utmb-s-clinical-and-translational-science-award-(ctsa)-program) for more on these articles.

NIOSH Reminds Workers to Stay Safe in the Cold

With winter in full-swing nationwide, the National Institute for Occupational Safety and Health (NIOSH) reminds workers whose job requires them to work outdoors in cold, wet, icy, or snowy conditions to "be prepared and be aware" to prevent cold-related illnesses and injuries such as hypothermia and frostbite. Anyone who has to work in a cold environment may be at risk of cold-related illnesses and injuries, or "cold stress." Workers who may not be able to avoid working outdoors in cold weather could include police officers, snow cleanup crews, sanitation workers, farmers, construction workers, and many others. Workers face increased risks

when they take certain medications, are in poor physical condition, or suffer from illnesses such as diabetes, high blood pressure, or heart disease. For outdoor workers, what constitutes cold stress and its effects can vary across different parts of the country. In regions where workers are unaccustomed to winter weather, near freezing temperatures are considered factors for cold stress.

—Please see <https://www.cdc.gov/niosh/updates/upd-01-23-19.html> for more on this.

KBRwyle Helps Marines Maintain Combat Readiness

KBR, Inc., announced that its global government services business, KBRwyle, has been awarded a 6-month contract extension by the U.S. Marine Corps (USMC) to continue to provide prepositioning and logistics support services for the USMC Blount Island Command. KBRwyle has operated under this contract for almost 10 years, demonstrating the Marine Corps' trust in KBRwyle to help maintain combat readiness for U.S. troops. Under this contract, KBRwyle acquires, maintains, and prepositions mission-critical supplies and equipment, such as combat vehicles, rations, water, fuel, medical supplies, and artillery and ammunition for troops deployed worldwide. KBRwyle provides logistics services that include supply support, inventory management, IT support, preservation and packaging, shipping and receiving, and maintenance in and outside of the United States. A majority of this work is performed in Jacksonville, FL, but KBRwyle also supports prepositioned stock in Kuwait and Norway, as well as aboard 12 Navy ships in the Indian and Pacific Oceans.

—Visit <https://kbr.com/about/newsroom/press-releases/2019/01/21/kbrwyle-continues-to-help-us-marines-maintain-combat-readiness-worldwide> to read more.

See 'Corporate News', p. N7

Mayo Clinic Finds AI Detects Silent Heart Disease

A Mayo Clinic study finds that applying artificial intelligence (AI) to a widely available, inexpensive test—the electrocardiogram (EKG)—results in a simple, affordable early indicator of asymptomatic left ventricular dysfunction, which is a precursor to heart failure. The research team found that the AI/EKG test accuracy compares favorably with other common screening tests, such as mammography for breast cancer. The findings were published in *Nature Medicine*. The Mayo study reports that the best existing screening test for asymptomatic left ventricular dysfunction is to measure natriuretic peptide levels (BNP), but results of BNP have been disappointing, and the test requires blood draws. In their study, Mayo Clinic researchers hypothesized that asymptomatic left ventricular dysfunction could be reliably detected in the EKG by a properly trained neural network. The study concluded that AI applied to a standard EKG reliably detects asymptomatic left ventricular dysfunction.

—Please see <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-research-uses-artificial-intelligence-to-develop-inexpensive-widely-available-early-detector-of-silent-heart-disease/> for more on this.

SAA Partners with Toyota Gazoo Racing South Africa Team

South African Airways Cargo (SAA Cargo) is proud to be the official airfreight partner of the Toyota Gazoo Racing South Africa Team at the 2019 Dakar Rally. The race took place from 6 to 17 January in Peru, South America. The Dakar Rally is one of the biggest motorsports events in the world and is seen as the pinnacle in off-road motor racing and the ultimate test of vehicle durability. The partnership, which has been in place since 2012, involves transportation of the racing vehicles to Sao Paulo, Brazil, enroute to Lima, Peru for the start. The shipment consists of two vehicles and spares, which weigh about 8500 kg.

—Please visit <https://www.flysaa.com/about-us/leading-carrier/media-center/media-releases/newsroom> for this and other articles.

Calls for Papers

Sept. 9-13, 2019; 24th International Symposium on Shiftwork & Working Time; Coeur d'Alene, ID, United States. Interested participants are invited to submit abstracts for oral and poster presentations. For submission guidelines, please visit <https://www.eiseverywhere.com/ehome/363296/symposia/>. For more about this meeting, see <https://www.eiseverywhere.com/ehome/363296/793502>. **The submission deadline is March 1, 2019.**

Oct. 28-Nov. 1, 2019; HFES 63rd International Annual Meeting; Seattle, WA, United States. Make plans to attend and participate in the 63rd International Annual Meeting of the Human Factors and Ergonomics Society. HFES is calling for proposals; **the deadline is March 4, 2019, at 6 PM EST.** For more information on the meeting, please visit <http://www.hfes2019.org/>.

Corporate News Bites

ALPA: The Air Line Pilots Association, Int'l (ALPA), recently named David Krieger to serve as general manager effective January 1. As ALPA's most senior staff member, Krieger will work directly with pilot leadership on the strategic planning, financial, and administrative functions of the union. Throughout his ALPA career, Krieger has been instrumental in the oversight of ALPA's financial, operational, statistical, economic, and labor-agreement analyses. *To read more about this, please visit <http://www.alpa.org/news-and-events/news-room/2019-01-08-david-krieger-new-general-manager>.*

Go2Altitude: Biomedtech of Australia has been chosen by the Royal Australian Air Force to provide its hypoxia training systems to the new air academy at RAAF East Sale. The systems comprise a six-person computerized classroom with a two-person cockpit trainer and includes a simulator for recognizing hypoxia symptoms. Training can be done using a helmet or oxygen mask to assist pilots in recognizing their symptoms. *For more on this, please see <https://www.defenceconnect.com.au/key-enablers/3396-biomedtech-australia-to-provide-hypoxia-training-to-adf>.*

IFALPA: The International Federation of Air Line Pilots Association (IFALPA) recently released a position paper on unescorted passengers on the apron. They were made aware that at some airports, passengers are able to walk onto the apron unescorted and unsupervised between the airplane and terminal. They feel this is a threat to safety and security. *The full paper can be downloaded at <https://www.ifalpa.org/media/3133/18pos22-unescorted-passengers-on-the-apron.pdf>.*

NKI: NeuroKinetics, Inc.'s (NKI's) Chief Technology Officer, Alex Kiderman, Ph.D., is a contributing author of a new book on mild traumatic brain injury (mTBI). The book, *Neurosensory Disorders in Mild Traumatic Brain Injury*, combines scientific and clinical work in mTBI to provide a comprehensive view of defining, diagnosing, and treating neurosensory disorders associated with mTBI. *To see more on this, please visit <https://www.neurokinetics.com/project/kiderman-author-mtbi-book/>.*

MEETINGS CALENDAR

March 5-7, 2019; Singapore Aviation Safety Seminar; Singapore Aviation Academy, Singapore. For more information, please visit <https://10times.com/singapore-aviation-safety-seminar>.

March 11-13, 2019; 16th EuroSciCon Conference on Immunology; Hyatt Place Amsterdam Airport, Netherlands. Please visit <https://immunology.euroscicon.com/> for more information.

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

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Visit www.asma.org/for-corporations to learn more or request information from the Home Office.