



Ever Upward: March 2019

Bradke Quoted in *Picante News* Article

Brian Bradke, Ph.D., has been working with Spotlight Labs on an in-flight hypoxia monitor. This monitor is designed to gather aircraft condition and human biometric data and warn pilots of imminent incapacitation. Spotlight Labs announced the monitor's availability and Dr. Bradke is quoted in an article about the monitor in *Picante News*. He talks about how, in tactical aviation, everything is instrumented except the pilot. This monitor changes that and gives pilots a tool for safety in flight. To read the article, visit <https://picante.today/latest-news/2019/01/30/16968/spotlight-labs-introduces-spydr-hypoxia-sensor-device/>.

New Members

AsMA welcomes 30 new members in March.

- Barber, Cameron; Raleigh, NC, United States
- Brar, Ramnit; Rasta, Norway
- Bron, Denis; Dubendorf, Switzerland
- Brown, Bradley; Holloman AFB, NM, United States
- Carr, Ryan; Port Orange, FL, United States
- Conteron Zamora, Bella; Quito, Ecuador
- Crutcher, Robert; Pensacola, FL, United States

- Diehl, Matthew; San Francisco, CA, United States
- Dunn, Christine; Jerrabomberra, New South Wales, Australia
- Fajardo, Pavel; Tegucigalpa, Honduras
- Flint, Andrew; Larrakeyah, Northern Territory, Australia
- Guidez, Brigitte; Paray-Vieille-Poste, France
- Harris, Katie; Illkirch-Graffenstaden, France
- Hoyt, Matthew; Honolulu, Hawaii, United States
- Jakubaitis, Terry; Dousman, WI, United States
- Jones, Michael; Bicester, Oxfordshire, United Kingdom
- Lefevre, Lentz; Deer Park, NY, United States
- Leinonen, Antti; Kuopio, Finland
- Makhoul, Kevin; Worcester, MA, United States
- McLaughlin, John; Palm Beach Gardens, FL, United States
- Meade-Swanston, Sonia; Philipsburg, Sint Maarten, Netherlands Antilles
- Murphy, Craig; League City, TX, United States
- Nako, Onalenna; London, United Kingdom
- Ng, Garrett; New York, NY, United States
- Pogson, Jacob; Camperdown, New South Wales, Australia
- Renfrew, Erica; Friendswood, TX, United States
- Schlosser, Karoly; Budapest, Hungary
- Sellers, Brandon; Augusta, GA, United States
- Shriki, Oren; Be'er Sheva, Israel
- Sitta, Ramsey; Detroit, MI, United States

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 a hotel room and the conference, 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: The cost of CME and MOC credits is now included in the registration fee. Attendees will receive a survey after the meeting asking if CME/MOC are needed.

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- 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)



May 5, 2019; 8 AM to 5 PM; \$200; Chair: Peter Mapes

This course is oriented to professionals in aerospace medicine, mishap analysis, aerospace psychology, aerospace physiology, flight medicine, aviation medicine, aviation safety analyses, aerospace engineering, human factors engineering, and anyone else involved in the analyses of aviation mishaps or rare events. It will be taught from an aerospace mishap analyses perspective. There will be 6 h of classroom lecture by IAMFSP members, and 2 h of guided practice with problems taken from real life analyses. Learners must bring a portable computer with the appropriate EpilInfo™ program for the operating system loaded. Please note that EpilInfo™ does not have a Mac-Intosh compatible option. WiFi access is not required. The EpilInfo™ program can be downloaded from the CDCP web site for free.

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

NEWS OF CORPORATE MEMBERS

Martin-Baker Rejoins AsMA

Martin-Baker Aircraft Co., Ltd., has rejoined the Aerospace Medical Association (AsMA) as a Corporate & Sustaining Member. Originally a designer and manufacturer of aircraft, they now design and manufacture ejection seats. Their headquarters are located in Uxbridge, Middlesex, United Kingdom, where all aspects of the business are handled, including design and development engineering, manufacturing, and environmental testing. There is also a manufacturing, support, and testing facility at Chalgrove Airfield, Oxfordshire. Their rocket-sled test track is located at Langford Lodge, Northern Ireland. That is where all range of speed tests are conducted.

—For more information on Martin-Baker, please visit <http://martin-baker.com/contact/martin-baker-uk/>.

Monash Researchers Collaborate on Seizure-Reducing Diet

A high-fat diet used to treat epilepsy in children has become the focus of a newly established collaboration between Monash University's Department of Neuroscience and Chinese researchers. The ketogenic or keto diet, which forces the body to burn fats for energy, has been shown to reduce seizures in two out of three children and leave up to 10% seizure free. These young patients haven't responded to anti-epileptic medicines previously, researcher Ms. Neha Kaul said. The new collaboration is a key component of the partnership between the Department of Neurology's Professor Patrick Kwan and long-term collaborator Professor Jianxiang Liao from the Shenzhen Children's Hospital. The collaboration is aimed at looking at the mechanisms of the diet, how to best use it to treat patients, ways to modify it so adults will stick to it, and side effects. The diet has been used to treat other diseases as well, including Parkinson's, Motor Neurone, and Alzheimer's diseases and some cancers.

—Please visit <https://www.monash.edu/medicine/news/latest/2019-articles/monashchinese-researchers-probe-high-fat-seizure-reducing-diet> to read more on this.

MedAire Named by AACO to Support Security Standards

The Arab Air Carriers' Organization (AACO) signed a Memorandum of Understanding with MedAire for aviation security and assistance services. The initiative, led by AACO Security Information Task Force, aims at assisting airlines in receiving timely, accurate, and actionable information to enhance their threat and risk assessments, as well as assisting them in security assessments of crew hotels and ground transport at outstations. MedAire was selected as the provider of choice after a comprehensive review of aviation security information providers. Participating AACO member airlines will receive airspace and airport assessments, 24/7 access to travel safety and security advice, security and operational assistance, and a host of other services for a holistic approach to aviation security.

—Please see <https://www.medaire.com/about/news/2019/02/13/aaco-names-medaire-security-information-provider-of-choice> to learn more about this.

Mayo Clinic Researchers Find Ethnoracial Differences in Alzheimer's

A team of Mayo Clinic researchers found Hispanic-American patients with Alzheimer's tend to survive significantly longer with the disease than other ethnoracial groups, according to a study in *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*. Hispanic-Americans were found to live an average of 12 years with the disease from the time of onset of symptoms. The research team examined 1,625 brain tissue samples and compared the disease progression and duration in individuals who had self-identified as African-American, Hispanic, or non-Hispanic white. The study also compared the presence, location, and composition of Alzheimer's-related protein clumps, known as tangles, in tissue samples from the Florida Autopsied Multi-Ethnic (FLAME) cohort. The study additionally explored demographic details, such as patients' education and employment, which are considered to have protective effects against cognitive decline. The findings have prompted the next stage of investigations, looking at factors that may influence survival in Hispanic-American patients. The team will explore psycho-social contributors, such as family support and potential neuro-biologic factors that include protective proteins.

—Please visit <https://newsnetwork.mayoclinic.org/discussion/research-finds-ethnoracial-differences-in-alzheimers-disease/> for more on this.

KBRwyle Continues Providing Support Services to the USN

KBRwyle has been awarded two contract modifications to continue providing base operating support services (BOSS) to the U.S. Navy (USN) in Djibouti and the Kingdom of Bahrain. The Naval Facilities Engineering Command (NAVFAC), Europe, Africa, and Southwest Asia, awarded both contract extensions. KBRwyle won a 1-year contract modification to continue providing a full spectrum of services at Camp Lemonnier in Djibouti and other locations within Africa to support a base population of thousands of soldiers, sailors, marines, and airmen. This work will include everything from management and administration to air operations and galley services. This is the first of a possible 7 option years on a firm-fixed-price, indefinite-delivery/indefinite-quantity contract originally won in 2017. The services will primarily be performed at the Naval Support Facility, as well as at two forward operating locations. KBRwyle also received a 1-year contract modification to continue support services at Naval Support Activity Bahrain. KBRwyle will provide a full range of services, including galley, security operations, and facilities, waste, and utilities management. This is the first of a possible 7 option years on an indefinite-delivery/indefinite-quantity contract originally won in 2017. These awards follow a recent BOSS contract modification awarded to the company to support Navy Support Facility Diego Garcia in the British Indian Ocean Territory.

—Please see <https://kbr.com/about/newsroom/press-releases/2019/02/11/kbrwyle-to-continue-critical-navy-base-ops-services-in-djibouti-and-bahrain> to read more on this.

See 'Corporates,' p. N10

NIOSH Presents Hearing Loss Prevention Awards

The National Institute for Occupational Safety and Health (NIOSH), in partnership with the National Hearing Conservation Association (NHCA) and the Council for Accreditation in Occupational Hearing Conservation (CAOHC), is pleased to announce the recipient of the 2019 Safe-in-Sound Excellence in Hearing Loss Prevention Award™. The award was presented to Kurt Yankaskas, Program Management Officer with the Noise-Induced Hearing Loss Research Program (NIHL) of the Office of Naval Research, on February 9th at the Annual Hearing Conservation Conference in Dallas, TX. Safe-in-Sound Awards honor those who have contributed to the prevention of noise-induced hearing loss and tinnitus through effective practices or innovations directed towards those who are exposed to noise at work. NIOSH recommends removing hazardous noise from the workplace whenever possible and implementing an effective hearing loss prevention program in those situations where dangerous noise exposures have not yet been controlled or eliminated.

—Please visit <https://www.cdc.gov/niosh/updates/upd-02-07-19.html> to learn more about this.

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CALLS FOR PAPERS

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/>.

MEETINGS CALENDAR

March 5-7, 2019; Singapore Aviation Safety Seminar; Singapore Aviation Academy, Singapore. For more, 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 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.

Corporate News Bites

SAA: South African Airways (SAA) has launched a check card in partnership with Nedbank. The card allows customers to earn air miles per transaction. This is different than the traditional airline reward programs where air miles earned is based on different criteria. In addition, two South African lifestyle bloggers, the chosen ambassadors for the credit card, will be embarking on a trip around South Africa, Africa, and the world and will be blogging about their experiences and the benefits of the card. To read more, please visit <https://www.flysaa.com/about-us/leading-carrier/media-center/media-releases/newsroom>.

NKI: NeuroKintetics' (NKI's) CEO and President, was featured on "Our Region's Business," a business affairs program produced by the Allegheny Conference on Community Development and WPXI-TV. Howison Schroeder appeared alongside Dr. Edward Snell, Director of Primary Sports Medicine at Allegheny Health Network (AHN), to discuss a recent study conducted by NKI and AHN that explored the use of video-oculography for diagnosing and managing concussions. To see the episode, please go to <https://www.youtube.com/watch?v=I406nCaDpc&feature=youtu.be>.

APA: The Allied Pilots Association (APA) is one of four pilots' unions that support H.R. 1108, the "Aviation Funding Stability Act of 2019," sponsored by Transportation and Infrastructure Committee Chairman Peter DeFazio (D-OR) and Aviation Subcommittee Chairman Rick Larsen (D-WA). This bill would give the Federal Aviation Administration (FAA) the authority to access the Airport and Aviation Trust Fund (AATF) to continue operations during a federal government shutdown. This legislation would ensure FAA employees would be able to continue working with pay and would avoid a collapse of the U.S.'s aviation system, which would endanger air travelers. For more on this, please visit <https://www.alliedpilots.org/News/ID/6671/Four-Transportation-Unions-Voice-Support-for-HR-1108>.

ALPA: The Air Line Pilots Association, Int'l (ALPA), also support Congressmen Peter DeFazio (D-OR) and Rick Larsen (D-WA) for introducing legislation (H.R. 1108) that would authorize the Federal Aviation Administration (FAA) to draw funding from the Airport and Aviation Trust Fund (AATF) in the event of a government shutdown. For the full press release, please see <http://www.alpa.org/news-and-events/news-room/2019-02-08-alpa-applauds-legislation-keep-faa-funded-in-shutdowns>.

AOPA: The Aircraft Owners and Pilots Association (AOPA) applauded the inclusion of a provision in the latest spending package that allows airports affected by Presidential temporary flight restrictions (TFRs) to be reimbursed for lost income. TFRs have left airports financially drained as many businesses remain inoperable during the restrictions—from fixed-based operators to skydiving operations, flight schools, maintenance shops, and other aviation activities. The recent legislation allows up to 3.5 million in reimbursement. To read more about this, please visit <https://www.aopa.org/news-and-media/all-news/2019/february/15/president-signs-spending-package>.