



# Ever Upward: May 2019

## Scholarship Winners Announced

### Anita Mantri Memorial Travel Scholarship

**Flt. Lt. Joe Britton** received the Anita Mantri Memorial Travel Scholarship from the Aerospace Medical Students and Residents Organization (AMSRO). He is a Medical Officer,



currently training as a Registrar (Resident) in Aviation and Space Medicine at the Centre of Aviation Medicine at RAF Henlow, where he was posted after successful selection into the speciality in August 2018.

Flt. Lt. Britton studied Medicine at King's College London, graduating in August 2013. During this time, he joined the University of London Air Squadron, leading to an application for a medical bursary

with the Royal Air Force. He found his passion for aviation medicine in 2009 when he undertook an intercalated B.Sc. in Aerospace Physiology at King's College London, graduating with First Class Honours and the SAFE Europe Student of the Year prize. His 2 years of Foundation Training were spent at MDHU Frimley Park, following which he began his General Duties Medical Officer year in the medical centre at RAF Coningsby before attending RAFC Cranwell for Specialist Entrant and Re-entrant officer training. Following graduation, he moved to RAF Henlow where he became a Member of the RAF Medical Board, performing permanent medical gradings for service personnel.

In August 2016, Flt. Lt. Britton returned to London to complete Core Medical Training at Chelsea and Westminster Hospital, achieving Membership of the Royal College of Physicians and securing a place on higher training in the new UK speciality of Aviation and Space Medicine. He has recently completed the Aerospace Medicine Diploma course at King's College London, being awarded D.Av.Med. qualification by the Faculty of Occupational Medicine in March 2019.

Throughout his training, Flt. Lt. Britton has been active in Aviation Medicine research and has applied his experience in the field to healthcare quality improvement projects based on safety lessons from the aviation industry. He has taught junior doctors, introducing them to aerospace medicine, and is currently working to help set up a national organization for medical students and junior doctors with an interest in the speciality. He has presented both nationally and internationally and written a chapter for the "Handbook of Aviation and Space Medicine," due to be published this year.

### AsMA International Aerospace Medicine Scholarship

**Rochelle Velho, M.B.Ch.B., M.P.H. (Merit), B.Sc. (Hons.), ARaES**, was the first recipient of the 2019 AsMA International Aerospace Medicine Scholarship. She graduated from the University of Bristol with a B.Sc. (Hons.) in 2010 and an M.B.Ch.B. from the University of Birmingham in 2013. Thereafter, she completed the National Institute for Health Research (NIHR) Academic Foundation Program



(AFP) in Public Health integrated with an M.P.H. She has recently completed the NIHR Academic Clinical Fellowship (ACF) in Anaesthesia and Critical Care Medicine. Research conducted during the AFP and ACF focused on a range of space-based solutions that included major incident management, mechanical CPR devices and systematic reviews on musculoskeletal morphology during bedrest.

Dr. Velho is the Chief Medical Officer for the Austrian Space Forum (OeWF). Previous expeditions include the Kaunertal Glacier in Austria (AMADEE-15) and Dhofar Desert in Oman (AMADEE-18). These experiences led her to establish a "Human, Space and Extreme Physiology" module both at the University of Birmingham and the University of Warwick medical schools. She began her career with OeWF in 2014, when she became a Mars Analog Mission Medical Team member. In 2017, she became the Mars Analog Missions Medical Team Lead. In tandem with a clinical and research career, she is an active committee member on several space life science committees. In the UK, she has been the Treasurer for both the UK Space Environments Association (UKSEA) and the UK Space Life and Biomedical Sciences Association (UK LABS). She is also a founding member of the Aerospace Medicine Systematic Review Group, which aims to develop further evidence-based guidelines for terrestrial and aerospace medicine.

As a medical student, Dr. Velho's research into emergency medical countermeasures in hypogravity and microgravity led to a presentation at the 2011 ESA space medical workshop; an aerospace medical elective with Kings College London; the 2013 AsMA Stanley Mohler scholarship; and the 2014 European Resuscitation Council young investigator prize. The culmination of all her clinical and research experiences has resulted in her recent election as co-chair of the Space Generation Advisory Council Space Medicine and Life Sciences Project Group; a global platform for young professions to present space-based solutions to the United Nations to meet the Sustainable Development Goals. She is a member of the Aerospace Medical Students and Residents Organization and the Aerospace Medical Association.

**Michael R. Greene, M.D., Dip.Av.Med. M.A.Sc., P.Eng.**, was the second 2019 recipient of the Aerospace Medical Association International Aerospace Medicine Scholarship. A native of Canada, Dr. Greene is currently a Resident Physician for the Vancouver Island and Vancouver Coastal Health Authorities in the Department of Emergency Medicine at the University of British Columbia. He is also a Consultant for the European Space Agency. He earned a B.A.Sc. in Space Engineering at York University in Toronto, Ontario, in 2007, and then an M.A.Sc. in Aerospace Engineering at the University of Toronto Institute for Aerospace Studies in 2009. He received

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his M.D. from the University of Calgary in 2015 and a Diploma in Aviation Medicine in 2019 from the Faculty of Occupational Medicine, Royal College of Physicians, in London.

Dr. Greene began his career as a Research Assistant for the NASA Phoenix Mars Lander in the Department of Earth and Space Science and Engineering at York University in 2006. He became

GNC Engineer, MDA Space Missions, in 2009 at MacDonald Dettwiler and Associates, Ltd., in Brampton, Ontario. In 2012, he began serving as a Research Associate/Robotics Engineer for Project neuroArm at Seaman Family MR Research Center, Hotchkiss Brain Institute, University of Calgary, until 2015, when he took his current position. In 2018, he was a Visiting Researcher at the European Space Agency on the Space Medicine Team, European Astronaut Centre, Cologne, Germany. That year he also became a Consultant for the European Space Agency Medical Projects and Technology Team at Wyle Laboratories in Cologne, a position he also still holds.

Dr. Greene is a member of the Aerospace Medical Association, the Aerospace Medicine Student and Resident Organization, the Space Medicine Association, the Undersea and Hyperbaric Medical Society, the Canadian Undersea and Hyperbaric Medical Association, the Wilderness Medical Society, and the Professional Engineers of Ontario. His awards include the Alexander Rutherford and York Entrance Scholarships, the Canadian Millennium Scholarship, the Allen S. Berg Award in memory of Mark A. Levy, an Ontario Graduate Research Scholarship, a Leaders in Medicine Symposium award for Best Poster Presentation in Group, and the Dr. Lindsay Leigh Kimmitt Prize in Emergency Medicine.

### **Stanley R. Mohler, M.D., Aerospace Medicine Endowed Scholarship**

**Jennifer Ma, B.A.**, received the 2019 Stanley R. Mohler, M.D., Aerospace Medicine Endowed Scholarship. She is currently completing her M.D. degree at the Albert Einstein



College of Medicine with Distinction in Research and will be joining Memorial Sloan Kettering Cancer Center for her Radiation Oncology Residency. Prior to that, she will complete a Transitional Year at Presence Saint Francis Hospital. Jennifer has been involved in a wide range of clinical and basic science research projects investigating the mechanisms of radiation damage and response, resulting in numer-

ous manuscripts, oral and poster presentations, a review article, and a book chapter. Her laboratory research focuses on the utility of mutational signatures in DNA repair deficiency and radiation response, and has been featured in *Nature Communications*.

Jennifer was selected for the Aerospace Medicine Clerkship at Johnson Space Center, where she worked on a project enti-

tled "Medical Kit Design for an Exploration Atmosphere Prebreathe Protocol Validation Test" which will be presented as a poster during the 2019 AsMA Scientific Meeting. She has served in a variety of positions at Memorial Sloan Kettering Cancer Center and was a Clinical Research Volunteer at Montefiore Medical Center in the Department of Radiation Oncology. She is a member of the Aerospace Medicine Student and Resident Organization and the Aerospace Medical Association. She has received the Harold and Muriel Block Institute Award for Clinical and Translational Research Excellence. She has also been an Honors Program Member at Fordham University and received an Albert Einstein College of Medicine Senior Research Fellowship.

### **Jeffrey R. Davis, M.D., Aerospace Medicine Endowed Scholarship**

**Karen M. Ong, M.D., Ph.D.**, was the 2019 recipient of the Jeffrey R. Davis, M.D., Aerospace Medicine Endowed Scholarship. She is currently an Internal/ Aerospace Medicine



Resident at the University of Texas Medical Branch in Galveston, TX. She received her Ph.D. in Computational Biology from the Courant Institute of Mathematical Sciences in 2016 and an M.D. from New York University Medical School in 2018. Prior to her medical training, she graduated from Pacific Union College in California with a B.S. in Chemistry.

Dr. Ong began her career as a Strong Children's Summer Research Scholar at Strong Memorial Hospital, University of Rochester, in 2005. She became a Post-Baccalaureate Research Fellow at the Laboratory of Biological Modeling at the National Institute of Diabetes and Digestive Kidney Diseases, National Institutes of Health, in Maryland in 2006. In 2009, she worked at the Dustin Immunology Lab at New York University Medical Center and then transferred to the Blaser Microbiology Lab in 2010. She also served as a Medical Student Tutor in 2010. From 2011–2016, she studied Mathematical/Computational Epidemiology at the Courant Institute of Mathematical Sciences, New York University, NY. In 2014, until 2016, she was also an Interdisciplinary Science Tutor at New York University Medical Center.

Dr. Ong's awards include the Richard A. Jackson Memorial Scholarship from Pacific Union College, the American Institute of Chemists Award, being named a National Merit Scholar, Best Undergraduate Poster Award from the Society for Industrial and Applied Mathematics Life Sciences Conference, a SciArt Data Visualization Grant from New York, the Minkowitz Scholarship from New York University,

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the International Association of Military Flight Surgeon-Pilots Scholarship, a Bellagio II Travel Scholarship, and the Martin and Sarah Leibowitz Prize for Quantitative Biology from the Courant Institute of Mathematical Sciences. She is a member of the Society of Industrial and Applied Mathematics, the Aerospace Medicine Student and Resident Organization, the Aerospace Medical Association, and an honorary student member of the International Association of Military Flight Surgeon-Pilots.

### AsMA Mentioned in Article on ISS

The Aerospace Medical Association's Annual Scientific Meeting in Las Vegas this May was mentioned in an article by Futurism.com on a possible automatic cleaning robot for the ISS. This robot, called the GermRover, would sterilize the walls of the ISS using UV rays. The prototype is to be revealed at AsMA's Las Vegas meeting, according to an article in *New Scientist* (<https://www.newscientist.com/article/2199921-zero-gravity-robot-cleaner-could-automatically-sterilise-the-iss/>). To read the article on Futurism.com, please visit <https://futurism.com/the-byte/germrover-iss-clean-uv-robot>.

### New Members

AsMA welcomes 42 new members in May.

- Almand, Austin; Colorado Springs, CO, United States
- Andersson, Hans Rolf Tobias; Malmo, Sweden
- Ashikyan, Zara; Sherman Oaks, CA, United States
- Ayala, Edwin; Quito, Ecuador
- Baraka, Ahmed; Shubra Khit, Egypt
- Bernstein, Hannah; New Orleans, LA, United States
- Cabre, Agustin; Auckland, New Zealand
- Cox, Maxime; Birmingham, United Kingdom
- Dawson, Steven; Beale AFB, CA, United States
- Drekonja, Thomas; Salzburg, Austria
- Ellis, Jonathan; Beavercreek, OH, United States
- Fellows, Tye; Toronto, Ontario, Canada
- Finn, Mary; Charleston AFB, SC, United States
- Flower, Alan; Dayton, OH, United States
- Furia, Antonello; Roma, Italy
- Gensrich, Guenter; Frankfurt/Main, Germany
- Gevorkian, Jonathan; Reno, NV, United States
- Gieger, Andrew; JB-MDL, NJ, United States
- Harris, Mark; Daniels, WV, United States
- Hatch, Guy; Logan, UT, United States
- Hoare, Cameron; Cloncurry, Queensland, Australia
- Holland, Albert; Seabrook, TX, United States
- Johnson, Zachary; Pensacola, FL, United States
- Lane, Joshua; Columbus, GA, United States
- Lee, Jimmy; Singapore, Singapore
- Mandiwana, Azhani; Gaborone, Botswana
- McGuire, Sarayna; Hershey, PA, United States
- McLean, William; New Braunfels, TX, United States
- Miles, Ed; Fort Worth, TX, United States

### Read Current News Online!

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

- Neilson, Brittany; Pensacola, FL, United States
- Oury, Jeffrey; Fort Wayne, IN, United States
- Pack, Steven; Merritt Island, FL, United States
- Painter, Robert; Indianapolis, IN, United States
- Phillis, Charles; Paradise Point, Queensland, Australia
- Ramirez, Humberto; Guatemala, Guatemala
- Saget, Jeremy; Saint-Medard-en-Jalles, France
- Schembre, Caroline; New Orleans, LA, United States
- Schmelz, Jacob; Houston, TX, United States
- Shepanek, Marc; Washington, DC, United States
- Shields, James; Helotes, TX, United States
- Tchantchou, Flaubert; Baltimore, MD, United States
- Tirado, Enrique; West Palm Beach, FL, United States

### In Memoriam: Mary Foley

Mary F. "Bunny" Foley, B.S., R.N., has passed away at the age of 90. Ms. Foley provided outstanding service to the Aerospace Medical Association (AsMA) for over 60 years. Her



nickname was "Bunny," which comes from her love of rabbits and she worked tirelessly for many years to rescue unwanted house rabbits and find them loving homes (often her own!). She was also passionate about the Ninety-nines, the International Organization of Women Pilots.

Ms. Foley attended her first AsMA meeting in 1957 and joined AsMA in 1958, was elected a Fellow in 1977, and earned certification as an Aerospace Physiologist, also in 1977. She has been a member of the Aerospace Physiology Society since its inception and was its President from 1981-1982. She has served on AsMA's History and Archives Committee, the International Activities Committee, the Membership Committee, and, for more than 25 years, the Scientific Program Committee, where, in the days before computers she would help to deconflict presentations, acting as our own personal computer.

Ms. Foley earned a B.S. in Nursing in 1950 at St. Xavier College in Chicago, IL. From 1951-1952, she served as an Operating Room Nurse at the Mayo Clinic program at St. Mary's Hospital in Rochester, MN. From 1952-1958, she taught Operating Room Techniques first at Madison General Hospital in Wisconsin, then at Mercy Hospital/St. Xavier College. From 1953-1958, she also taught Medical and Surgical Nursing at Mercy Hospital/St. Xavier College. In 1957, she attended the Transportation Geography course at the University of Chicago, attained a private pilot license, and joined the North Central Section of the Ninety-Nines. She went on to earn commercial and instrument ratings. She has flown Piper Cub, Aeronca 7AC, Cessna 120, 150, 152, 170, 172, Beech Musketeer and Beech T-34, Navion and Stinson Voyager.

From 1958-1960, Ms. Foley served in the USAF Nursing Corp, Active Duty, and was in the USAF Reserves from 1960-1985, retiring with the rank of colonel. She served at the Aviation Medicine Research Laboratory at Ohio State University in Columbus, and conducted research with Dr. Charles Billings on pulmonary function testing in an altitude chamber, effects of pressure changes on disease processes,

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and in-flight studies of professional pilot performance in response to oxygen/air mixtures. She was also a Mobilization Augmentee at Wright-Patterson AFB in Dayton, OH.

In 1966, Ms. Foley joined the Cardiopulmonary Laboratory at Ohio State University, where she conducted research until 1969. Also during that time, from 1963-1968, she served in the USAF Space Program in her spare time, volunteering as a subject in Navy motion sickness studies on zero gravity flights, Bárány chair rotation at 0 G, and stomach awareness. From 1969-1971, she pursued Ph.D. studies in physiology at Pennsylvania State University. From 1973-1984, she worked on the Medical Monitoring Team at Springs Textiles in Fort Mill, SC, where she conducted pulmonary function testing of mill workers, smoking cessation efforts, a hypertension survey, and studies of genetic factors in hypertension. In 1984, she began serving as an Agency Nurse at Manpower and Assured Health in Gurnee, IL. More recently, she was researching women in aviation for a book and presented papers at numerous national and international meetings, and has 14 journal publications.

Ms. Foley was a member of Silver Wings, AsMA, AsPs, SMA, International Women's Air and Space Museum, AOPA, and National Space Society. She was the recipient of the AsMA Marie Marvingt Award in 2009, for her contributions in aerospace physiology research, and the 2016 Mary T. Klinker Award for her dedication to advancing aerospace nursing, aerospace medicine and physiology, clinical health care, and industrial safety with her research and service.

### In Memoriam: Roland Shamburek

AsMA was saddened to hear of the death of Roland H. Shamburek, M.D., who served as Executive Director (Executive Vice President) of the Aerospace Medical Association (AsMA) from 1977-1978. Born in Wisconsin, Dr. Shamburek earned a B.S. at the University of Wisconsin in 1950 and then his M.D. in 1953. He interned at St. Joseph's Hospital in Marshfield, WI, in 1954 and then attended the Basic Course at the Army Medical Field Service School in 1954, the Advanced Course in 1957, and the Primary Course at the U.S. Naval School of Aviation Medicine also in 1957. He graduated from Harvard School of Public Health in 1961 with an M.P.H. He then took the Advanced Course at the U.S. Air Force School of Aerospace Medicine in 1962. He was a Resident in Aviation Medicine at the U.S. Army Hospital, Fort Rucker, AL, in 1963 and completed U.S. Army War College in 1972.

Dr. Shamburek served as Commander, Medical Detachment, 216th Field Artillery Battalion, Fort Still, OK, from 1954-1956. In 1958 he became Division Flight Surgeon, 2nd Armored Division and Post Flight Surgeon at Fort Hood, TX. He was an Instructor at the U.S. Army Aviation School at Fort Rucker, AL from 1962-1963 and then became Aviation Medicine and Physical Standards Consultant, U.S. Army Europe until 1966. From 1963-1965, he also served as Aeromedical Flight Controller for Project Gemini at NASA. From 1966-1970, he was Chief of the Aviation Branch, Directorate of Plans, Supply and Operations, Office of the Surgeon General, Department of the Army, and Aviation Medicine Consultant to the Surgeon General. In 1970 he became Commander of the 67th Evacuation Hospital in the

Republic of Vietnam, and in 1972 was Chief of the Medical Corps Career Activities Office at the Office of the Surgeon General and later at the U.S. Army Medical Department Personnel Support Agency. In 1975, he became Commander of the U.S. Army Medical Personnel Support Agency, which he held until 1977.

Dr. Shamburek was a Diplomate in Aviation Medicine of the American Board of Preventive Medicine; a member of the American Medical Association, the Association of Military Surgeons of the United States, the Society of U.S. Army Flight Surgeons (where he was President from 1973-1974), and the Army Aviation Association of America; and a Fellow of the American College of Preventive Medicine (where he was Vice President from 1968-1969) and AsMA (where he was Vice President from 1968-1969). His awards included the Legion of Merit, the Meritorious Service Medal, the Commendation Medal, a USAF Unit Commendation Award, a NASA certificate for support of Gemini Flights NS-1 and GT-3, 4, and 6, and the John Shaw Billings Award from the Association of Military Surgeons.

### Obituary Listing

AsMA staff were saddened to hear of the death of **Mae D. Mercereau**, USAFR (Ret.) in January. A flight nurse and native of Chicago, she earned an R.N. in 1962 from Ravenswood Hospital. She was commissioned as a 1<sup>st</sup> Lieutenant in the U.S. Air Force in 1967 and became a Flight Nurse after training at Brooks AFB, TX. During active duty, she served in Southeast Asia, Europe (mainly Germany), and several state-side bases. She received the National ANG Nurse 75 Award for Meritorious Service. She was a member of the Ravenswood Hospital Alumnae Association, the Association of Military Surgeons of the United States, the Retired Officers Association, the Reserve Officers Association, the Military Order of the World Wars, the Navy League of the United States, and an Associate Fellow of the Aerospace Medical Association, where she served on the Registration Committee for many years. Her name is displayed on the Wall of Honor at the Smithsonian's Air and Space Museum.

### MEETINGS CALENDAR

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

**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](http://www.uhms.org/meetings/annual-scientific-meeting/uhms-annual-scientific-meeting-information.html) for more.

**Sept. 9-13, 2019;** 24th International Symposium on Shiftwork and Working Time; Couer D'Alene, ID, United States. Early bird registration rate is available through May 15. For more information or to register, please visit [www.shiftwork2019.com](http://www.shiftwork2019.com).

## NEWS OF CORPORATE MEMBERS

### Medlock Consulting Becomes AsMA Corporate Member

Medlock Consulting has become the newest Corporate & Sustaining Member to join the Aerospace Medical Association (AsMA). They are an occupational medicine physician search firm dedicated to locating and evaluating physicians and facilitating their placement in the right environment. Medlock believes in presenting professional opportunities to those who are not necessarily looking to change jobs. They feel this helps them deliver candidates who are otherwise unreachable. Part of their method is to understand the environment and needs of potential employers in order to bring these employers highly qualified physicians who will fit in. Medlock is one of the few search firms that focuses solely on physicians searches and has one of the largest physician networks and databases in the country. The firm was established in 1990 and has instituted a Fellowship fund at the Harvard TH Chan School of Public Health.

—For more on Medlock Consulting, please visit their web site at <http://www.medlockconsulting.com/>.

### AOPA FLY-In to Feature Period Paratroopers

The Aircraft Owners and Pilots Association (AOPA) has teamed up with the D-Day Squadron and Liberty Jump team to commemorate two anniversaries—the 75th anniversary of Allied troops' invasion of Normandy and AOPA's 80th anniversary. Five of the C-47s and DC-3s involved in the D-Day Squadron's flight to Normandy, France, will fly in on May 10 and 11 to the Fly-In Frederick, MD, and members of the Liberty Jump Team will parachute from overhead, taking spectators back in time to June 6, 1944. AOPA's anniversary fly-in is on the way north for the D-Day aircraft as they prepare to fly across the Atlantic Ocean. The squadron will participate with Daks Over Normandy to fly across the English Channel on June 6.

—Please visit <https://www.aopa.org/news-and-media/all-news/2019/april/16/d-day-squadron-liberty-jump-team-to-perform-at-aopa-fly-in> to read more on this.

### NIOSH Employee Receives Engineering Honor

The National Institute for Occupational Safety and Health's (NIOSH's) Associate Director for Mining Jessica Kogel, Ph.D., has received one of engineering's highest honors, election into the National Academy of Engineering (NAE). She is among 86 new U.S. members and 18 foreign members elected to the NAE for 2019. She was named to the NAE for her distinguished contributions to engineering, "for sustainable development and innovation of industrial clay products and processes." She chairs the World Federation of Engineering Organizations' Task Force on Mining and Sustainability, which fosters close collaboration between the global mining industry, NGOs and the local community to increase environmental stewardship, improve economic conditions and

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contribute to social equity. Through this and other activities, Dr. Kogel has promoted positive change in operations management, health and safety practices, environmental impact, and mineral resource utilization.

—Please see <https://www.cdc.gov/niosh/updates/upd-04-01-19.html> for more.

### IFALPA Announces New Internship Program

The International Federation of Air Line Pilots' Associations (IFALPA) has partnered with McGill University's Institute of Air and Space Law (IASL) to announce a pre-professional internship to current students and recent graduates of the IASL. This new IFALPA internship will offer students and recent graduates of the IASL an opportunity to use their legal, business, and administrative knowledge, gain work experience, and grow their network in the areas of IFALPA's business and professional activities. At least one intern will be selected by IFALPA for a 3-month work term each academic year. The program is open to students currently registered in the IASL's LLM program and to graduates who have completed the IASL's LLM program within 3 years of the application date. The IASL will accept applications for this internship as of May 1, 2019. Final intern selection will be made by IFALPA on or before September 30, 2019.

—Please visit <https://www.ifalpa.org/media/19pr102-iasl-ifalpa-announce-new-internship-program/> to read more on this.

### KBRwyle Wins Military Support Contracts

KBR, Inc., announced that its global government services business, KBRwyle, has been awarded two contracts under the DoD Information Analysis Center's (IAC) Defense Systems Technical Area Task (DSTAT) multi-award contract. These contracts were awarded by the Air Force Installation Contracting Agency (AFICA). One contract is a defense systems task order to provide the Air Force Life Cycle Management Center (AFLCMC) with analysis, research, and product support for aeronautical systems. KBRwyle will perform engineering, airworthiness, system security and assurance, risk management, and safety analyses for aircraft in the center's portfolio. The other is a defense systems task order to provide the AFLCMC Special Projects Office with detailed acquisition strategy development, sustainment, engineering, cybersecurity, strategic planning, and business process improvement. KBRwyle will also continue assisting the Air Force's efforts in standing up its F-35 Hybrid Product Support Integrator organization, F-35A Fleet Management Office, and other new programs.

—Please see [https://kbr.com/about/newsroom/press-releases/2019/04/11/kbrwyle-wins-\\$100m-to-continue-providing-crucial-support-to-f-35-and-other-air-force-aircraft](https://kbr.com/about/newsroom/press-releases/2019/04/11/kbrwyle-wins-$100m-to-continue-providing-crucial-support-to-f-35-and-other-air-force-aircraft) for the full press release.

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#### Save the Date!

Oct. 28-Nov. 1, 2019; HFES 63rd International Annual Meeting; Seattle, WA, United States. For more info on the meeting, please visit <http://www.hfes2019.org/>.

## Mayo Clinic Announces Inaugural MedTech Accelerator Cohort

The MedTech Accelerator, a collaborative effort between Mayo Clinic and Arizona State University, has announced the selection of six startups for its inaugural cohort: Bio-Interactive Technologies; GYANT; Hexoskin; Life365 Inc.; Safe; and Securisyn. The accelerator, which is part of the Mayo Clinic Arizona State University Alliance for Health Care, was designed specifically for early stage medical device and health care technology companies looking to take their business to the next level. The immersive experience will help participants develop or optimize new products and services, license intellectual property, and sponsor research and clinical studies. Participants will achieve this through individually tailored development plans, a trusted MedTech Accelerator entrepreneurship curriculum, idea mentoring, and customer interactions within the health care ecosystem.

—Please see <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-asu-select-six-startups-for-inaugural-medtech-accelerator-cohort/> to read more.

## Monash Professor Part of Landmark Series

A landmark series in *The Lancet*, led by Monash University Professor Paul Myles, who is Head of Monash University's Department of Anaesthesia and Perioperative Medicine, reveals that a major contributor to the global opioid epidemic is inappropriately managed post-surgery pain that becomes chronic and long-lasting. Globally up to 75% of surgery patients are prescribed opioids at hospital discharge with no plan to monitor their use or to wean the patients off the painkillers – and the study shows that the risk of misuse increases by 44% for every week and for repeat prescription after discharge. According to Professor Myles, it is possible to detect those patients whose pain is “transitioning” from acute to chronic so that their pain can be better managed, however the majority are simply prescribed more potent painkillers, often leading to long term addiction. *The Lancet* papers, which include an editorial, bring together global evidence detailing the role of surgery in the opioids crisis. Professor Myles, who was commissioned to write this series by *The Lancet* 18 months ago, is planning to conduct a clinical trial of 4000 Australian women who have surgery for breast cancer.

—Please see <https://www.monash.edu/medicine/news/latest/2019-articles/landmark-lancet-series-reveals-poor-management-of-surgery-pain-key-contributor-to-global-opioid-crisis> for more on this.

## Corporate News Bites

**ALPA:** The Air Line Pilots Association (ALPA), Int'l, applauded the introduction of the Safety Is Not for Sale Act. This bill will make additional safety information available to airline pilots in the cockpit and provide airlines with more safety data about the equipment they operate, while also making onboard safety enhancements easier to acquire. Please visit <http://www.alpa.org/news-and-events/news-room/2019-04-11-introduction-safety-is-not-for-sale-act-2019> to read ALPA's statement.

**APA:** The Allied Pilots Association (APA) has voiced its support for the U.S. Department of Transportation's establishment of a Special Committee to review FAA procedures for certifying new aircraft. APA President Capt. Daniel F. Carey confirmed that the DOT has requested recommendations from APA for qualified participants from within its pilot ranks. Please go to <https://www.allied-pilots.org/News/ID/6801/Allied-Pilots-Association-We-Look-Forward-to-Participating-in-Review-of-FAA-Aircraft-Certification-Process> to see APA's statement.

**ETC:** Environmental Tectonics Corp. (ETC) is celebrating 50 years. They have been in business since 1969, providing their customers with innovative products, service, and support within diverse markets, including Aerospace and Defense, Advanced Disaster Management Simulators for First Responders, Sterilizers for Medical Device Manufacturers, Healthcare, Automotive, and HVAC. Please see <https://www.etcusa.com/environmental-tectonics-corporation-celebrates-50-years/> to see the video.

**NKI:** NeuroKinetics, Inc.'s (NKI's), I-PAS system was the subject of a presentation by researchers from the University of Pittsburgh summarizing a clinical investigation of its use in detecting neurology deterioration in patients in the Intensive Care Unit. The presentation was part of the 8<sup>th</sup> Annual Mitchell P. Fink Scholar Day held by the University of Pittsburgh's Department of Critical Care Medicine. Please visit <https://www.neuro-kinetics.com/project/study-on-i-pas-in-icu-among-mitchell-p-fink-scholar-day-presentations/> to see more.

### Upcoming FAA AME Seminars

<u>Dates</u>	<u>Location</u>	<u>Seminar Type</u>
June 10-14, 2019	Oklahoma City, OK	Basic
Aug. 2-4, 2019	Washington, DC	Refresher
Sept. 26-28, 2019	Cleveland, OH	CAMA

**PLEASE NOTE:** Please contact the FAA to register for FAA seminars. Visit: [http://www.faa.gov/other\\_visit/aviation\\_industry/designees\\_delegations/designee\\_types/ame/seminar\\_schedule/](http://www.faa.gov/other_visit/aviation_industry/designees_delegations/designee_types/ame/seminar_schedule/) to learn more.



## 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](http://my.nps.edu/web/dl)
- Program designators:
  - HSI Certificate Program - 262
  - Master's Degree in HSI - 359

#### For More Information

[HumanSys@nps.edu](mailto:HumanSys@nps.edu)

HSI Certificate Program: [nps.edu/hsicertificate](http://nps.edu/hsicertificate)

HSI Master's Degree Program: [nps.edu/hsimasters](http://nps.edu/hsimasters)

