



# Ever Upward: December 2019

## AsMA Members Attend Conference in Moscow



Pictured at the Aviation Medicine Doctors Association Conference in Moscow, Russia, from left to right, are Dr. Daniel Hohman, Dr. Hernando "Joe" Ortega, Jr., and Dr. Geoffrey McCarthy. The meeting was in early November.

## AsMA Announces Tiered Corporate Membership

In an effort to optimize Corporate Member benefits and participation, the Aerospace Medical Association (AsMA) has developed a Tiered Membership structure. This allows Corporate Members to select the level of membership that provides the best benefits for them. The tiered structure offers options to best suit a company's objectives and needs; offers increasing discounts at each level; provides an opportunity for greater interaction with AsMA leadership; and offers greater return on investment at each level.

Membership levels range from Standard to Platinum, with increasing benefits for each level of membership. While all but one of the levels includes sponsorship, this is for events, not awards, which remain a separate activity. Other benefits include complimentary access to the Corporate Forum luncheon and the journal, advertising and registration discounts, and complimentary individual memberships. For full information, please visit <https://www.asma.org/for-corporations>.

## AMHP Publishes First Open Access Articles

The Editorial Board of *Aerospace Medicine and Human Performance* (AMHP) had been considering for a few years whether or not to offer an Open Access (OA) option to authors. In pursuit of this, Pam Day, the Managing Editor, created and sent out a survey to authors and reviewers to solicit their opinions regarding Open Access. The results were published in [January 2018](#). Many respondents indicated they felt OA articles were easier to find; published faster; were more widely disseminated; and provided more equitable access to those in less developed nations.

However, paying to publish was viewed negatively and no overwhelming benefits of OA stood out except perhaps having a wider audience and free access. The traditional model was seen as more rigorous in peer review, and as having a higher impact factor and higher quality submissions.

Despite this, many institutions have moved toward an author pay model and away from subscriptions and are requiring OA or depositing of works in a repository. While the journal has always allowed the final accepted version to be freely deposited, some authors desire to have the final published version available. Therefore, this year AMHP made an OA option available along with the traditional publication option; there is no obligation for authors to choose OA. The first three OA articles are published in the December issue [AMHP 2019; 90(12)]. These articles are denoted by an unlocked symbol [🔓] next to the title. For more information on OA and AMHP's hybrid option, please read Dr. Bonato's [October editorial](#).

## Changes to Allied Membership

AsMA published the list of Lower Middle and Lower Income countries according to a 2018 report from the UN in November. However, a 2019 report from the UN has been published and Armenia, Guatemala, and Jordan are now considered Upper Middle Income countries. Therefore, residents of these countries are no longer eligible. Please see the table on p. 77 for the updated list (from the 2019 UN report).

See 'Allied Membership,' p. N77

### Visit Us on Social Media!

**Twitter:** [https://twitter.com/aero\\_med](https://twitter.com/aero_med)

**FB:** [www.facebook.com/AerospaceMedicalAssociation](http://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)

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

Lower Middle Income		Lower Income	
Angola	Lesotho	Afghanistan	Madagascar
Bangladesh	Mauritania	Benin	Malawi
Bhutan	Mongolia	Burkina Faso	Mali
Bolivia (Plurinational State of)	Morocco	Burundi	Mozambique
Cabo Verde	Myanmar	Central African Republic	Nepal
Cambodia	Nicaragua	Chad	Niger
Cameroon	Nigeria	Comoros	Rwanda
Congo	Pakistan	Democratic People's	Senegal
Côte d'Ivoire	Papua New Guinea	Republic of Korea	Sierra Leone
Djibouti	Philippines	Democratic Republic of	Somalia
Egypt	Republic of Moldova	the Congo	South Sudan
El Salvador	Sao Tomé and Príncipe	Eritrea	Syrian Arab Republic
Eswatini	Solomon Islands	Ethiopia	Tajikistan
Georgia	Sri Lanka	Gambia	Togo
Ghana	State of Palestine	Guinea	Uganda
Honduras	Sudan	Guinea-Bissau	United Republic of
India	Timor-Leste	Haiti	Tanzania
Indonesia	Tunisia	Liberia	Yemen
Kenya	Ukraine		Zimbabwe
Kiribati	Uzbekistan		
Kyrgyzstan	Vanuatu		
Lao People's Democratic	Viet Nam		
Republic	Zambia		

## New Members

AsMA welcomes 17 new members in December.

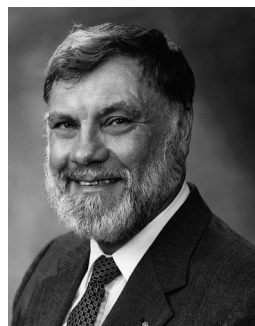
- Albear, Paul; Tampa, FL, United States
- Blackshear, Francesca; Pembroke Pines, FL, United States
- Boyce, Dacia; Kaneohe, HI, United States
- Carmack, David; Bethesda, MD, United States
- Christensen, Matthew; Park City, IL, United States
- Darby, Joleen; Edinburg, South Australia, Australia
- Gomez, Anthony; Brooklyn, NY, United States
- Jander, Caron; Freshwater, New South Wales, Australia
- Katkar, Rahul; Cleveland, OH, United States
- Kazacos, Stefan; Lakewood, WA, United States
- Khan, Sara; Orleans, Ontario, Canada
- Metris, Kimberly; Pendleton, SC, United States
- Narayanamoorthi, Ashok; Gobichettipalayam, Tamil Nadu, India
- Park, Jaewoo; Toronto, Ontario, Canada
- Read, John; Little Neck, NY, United States
- Schulman, Samuel; Stamford, CT, United States
- Shivers, Bethany; Patuxent River, MD, United States

## Future AsMA Annual Scientific Meetings

May 17-21, 2020: Hyatt Regency Atlanta; Atlanta, GA  
 May 23-27, 2021; Peppermill Resort Hotel; Reno, NV  
 April 3-7, 2022; Sheraton Denver Downtown, Denver, CO

## In Memoriam: Henry L. Taylor

AsMA Headquarters staff were saddened to learn that Henry 'Hank' L. Taylor has died. A native of Alabama, he earned a



B.S. in 1956 and an M.S. in 1958 from Auburn University, and graduated from Florida State University with a Ph.D. in 1963. He served for 23 years in the U.S. Air Force, retiring as a Colonel, and then spent 21 years as a Professor of Psychology and Director of the Institute of Aviation at the University of Illinois.

From 1969 to 1972, Dr. Taylor was the Program Monitor at the

Air Force Systems Command Headquarters for the U.S. Air Force Human Resources Laboratory. While there, he was involved in projects such as the Advanced Simulator for Pilot Training and the Advanced Instructional System for Maintenance Training. He then became Military Assistant for Personnel and Training Technology within the Office of the Secretary of Defense until 1978. From 1978-1980, he served as Commandant of two U.S. Air Force professional schools: the Academic Instructor School and the Foreign Officer School. During this time he was also administratively responsible for Air University television, which provided TV production and distribution for Air University schools.

See 'Taylor,' p. N78

From 'Taylor,' p. N77

Dr. Taylor then took the position of Director of the Institute of Aviation at the University of Illinois in 1980. He became the Acting Head of the Aviation Research Laboratory in 1981, a position he served in for 3 years. When he first came to the university, he initiated a major effort to revitalize both the lab's and the university's human factors research program. He also participated in establishing an interdisciplinary Engineering Psychology (Human Factors) teaching and research program. In addition, he completed a 6-year term as a member of the State of Illinois Board of Aeronautical Advisors, who are appointed by the Governor. He was President of the Illinois Public Airports Association and President of Division 21, Applied Experimental and Engineering Psychologists of the American Psychological Association. He was instrumental in founding the the Aerospace Human Factors Association (AsHFA), an Aerospace Medical Association (AsMA) constituent organization, and served as their President. AsHFA dedicated the Founders Award in his honor

Dr. Taylor was a Fellow of the American Psychological Society, Human Factors Society, the American Psychological Association, and AsMA. Within the Association, he served a 2-year term as Chair of the Aerospace Human Factors Committee and was a member of the Nominations Committee, Scientific Program Committee, Membership Committee, Aerospace Human Factors Committee, Long-Range Planning Committee, and the Constitution and Bylaws Committee. He published over 100 scientific articles and presented 125 papers at conferences worldwide. He received AsMA's Raymond F. Longacre Award in 1992.

#### Read Current News Online!

The AsMA News, Member News, & Industry News pages are updated as we get news. Members: check the Job Fair each month!

## ABPM Approves Longitudinal Assessment Pilot

The American Board of Preventive Medicine (ABPM) announced today that the American Board of Medical Specialties' (ABMS) has formally approved the ABPM's proposed Longitudinal Assessment Pilot (LAP). The LAP pilot will include all current Diplomates Certified by the ABPM in the Subspecialty of Clinical Informatics. The LAP pilot is scheduled for launch in the first quarter of 2021 and will run for a consecutive 24-month period.

The LAP pilot is designed as an alternative to the ABPM's current high-stakes MOC examination which every Diplomate is required to take and pass every ten-years in order to maintain Certification. In lieu of taking the required MOC examination, all Diplomates Certified by the ABPM in Clinical Informatics will be enrolled in the LAP pilot and, beginning in 2021, LAP participants will answer a total of twenty-four Subspecialty-specific questions, twelve in the first six-months and an additional twelve in the second-six months of each year of the pilot. The LAP will be offered electronically where Diplomates will be able to answer each question from their own computer at a time and place that is convenient for the Diplomate.

Diplomates Certified by the ABPM in Clinical Informatics and participating in the LAP pilot will not be required to take the high-stakes MOC examination, but instead will be deemed to have met this requirement via participation in the LAP pilot. Upon the conclusion of the LAP pilot, and beginning in the first quarter of 2023, it is anticipated that the ABPM will complete its transition and launch its Continuing Certification Plan across all of its Specialties and Subspecialties and which transition will include, but not be limited to, implementation of a LAP. To read more about this, please see <https://www.theabpm.org/2019/11/25/the-american-board-of-preventive-medicine-announces-the-approval-of-its-longitudinal-assessment-pilot-for-clinical-informatics/>.

## NEWS OF CORPORATE MEMBERS

### Omni Medical Systems Joins AsMA

Omni Medical Systems has become the newest Corporate Member of AsMA. They are a research, development, and production company in Colchester, VT. The company has been involved in the research, design, and development of various mechanical and electronic devices for the past 25 years. Future developments include a personal cooling device for soldiers to combat heat stress from chem-bio suits, cold weather and flame retardant clothing for aircrew and soldiers, and a lightweight personal ballistic protection system. *More can be read about them at <https://www.omnimedical-sys.com>.*

#### Want to see your company's news here?

Corporate & Sustaining Members can send news to the Journal and get meeting and exhibitor discounts. If your company is not a member, become a one! Visit [www.asma.org/for-corporations](http://www.asma.org/for-corporations) or [request information](#).

### AOPA's You Can Fly Initiative Wins NAA Award

The National Aeronautic Association recognized AOPA's You Can Fly initiative with one of its highest honors on November 12, the Frank G. Brewer Trophy, "for fostering an appreciation of general aviation flying by working to make it more accessible and affordable to all." You Can Fly reminds students, lapsed pilots, and everyone in between that flying is within reach. The multifaceted program is composed of four initiatives: Flight Training, Flying Clubs, Rusty Pilots, and High Schools. In just a few short years, You Can Fly has given away millions of dollars in flight training scholarships with the goal of welcoming new pilots to our community, regardless of their background or economic status. A first of its kind, the program gained national recognition and was featured online in *PBS Newshour's* Future of Work series. The initiative is turning the tide on the heavily male-dominated industry: 22% of the students in the aviation program are female and 38%

See 'Corporate News', p. N79

From 'Corporate News,' p. N78

(1,900 students) come from underrepresented groups—a game changer for the future of the aerospace industry.

—Please see <https://www.aopa.org/news-and-media/all-news/2019/november/12/you-can-fly-wins-naa-frank-g-brewer-trophy> to read more about this.

### Martin-Baker Awarded Employer of the Year

Martin-Baker attended the Uxbridge College Annual Awards Ceremony in September to receive the Apprentice Employer of the Year Award. Martin-Baker currently has 15 apprentices enrolled at Uxbridge College studying a combination of Level 3 and Level 4 Mechanical Engineering qualifications, more than any other mechanical engineering company involved with the college. Based in Denham, Martin-Baker has high standards of training within the apprenticeship program. The company also stretches learners well beyond the minimum requirements, ensuring that apprentices and trainees are rewarded according to their performance. John Atkinson (Cell Leader and In-House NVQ Assessor), Sophie Claesen (2nd Year Apprentice), and Jack Winter (4th Year Apprentice) received the award on behalf of the company.

—Please visit <http://martin-baker.com/2019/10/04/martin-baker-awarded-employer-year-uxbridge-college-awards-ceremony/> to see more about this.

### IFALPA Calls for New Guidance on Drones

The International Federation of Air Line Pilots' Associations (IFALPA) and its global aviation industry partners have addressed the pressing need for standards and guidance to address unauthorized drone operations to the 40<sup>th</sup> International Civil Aviation Organization (ICAO) Assembly. ACI World, the Civil Air Navigation Services Organisation (CANSO), International Federation of Air Traffic Controllers' Associations (IFATCA), IFALPA, and the International Air Transport Association (IATA) presented a

paper—entitled “The need for standards and guidance to mitigate the risks of, and to improve response to unauthorized UAS operations”—which stated that disruption to airport operations by drones is a safety matter that requires urgent attention by ICAO, States, and industry. In addition to the safety risk which comes directly from unauthorized drone—or Unmanned Aircraft Systems (UAS)—operations, several major airports have been shut down by drone sightings around the world and this major disruption has led to frustration for passengers and substantial economic costs. The ICAO Assembly supported the working paper, recognizing the safety risks associated with the unauthorized presence of unmanned aircraft in close vicinity to commercial aircraft and airports and noted the offer from industry to assist in drafting suitable guidance material.

—Please visit <https://www.ifalpa.org/news/global-pilots-industry-partners-call-for-new-guidance-on-drone-operations/> to read more about this.

### Serco Prison Staff Praised

In a report from the Office of the Inspector of Custodial Services into Acacia Prison in Wooroloo, Western Australia, Serco staff were praised for a dedication to innovation, flexibility and responsiveness. This led to good services for the prisoners, value to the state, and prompt reaction when any problems arose. The report also found that services offered to the prisoners were of a high standard. Serco Asia Pacific's CEO said that the company intends to maintain their core commitment to ensuring the security of Acacia Prison, the safety of staff, inmates, and visitors, and to working with the Department to deliver innovative services to reduce recidivism and achieve cost savings for the state.

—Please visit <https://www.serco.com/aspac/news/media-releases/2019/independent-report-into-acacia-prison-praises-quality-innovative-services> for more on this.

See 'Corporate News,' p. N80

### Corporate News Bites

**MedAire:** MedAire's global director of aviation health, Paulo Alves, was interviewed as part of an article on air rage. He was quoted regarding alcohol use on flights, pointing out that passengers may be 'self-medicating'. He also debunks the idea that hypoxia during the flight makes it more likely for someone to get drunk as airplane cabins are pressurized to an altitude of 8000 ft. *For more on this, please visit <https://www.cnn.com/travel/article/unruly-airplane-passengers/index.html>.*

**Konan Medical:** Konan Medical USA recently announced the rollout of objectiveFIELD, a device designed to assess the human visual field in a completely objective and non-contact manner. The device was premiered at the American Academy of Ophthalmology Annual Meeting in Chicago in October and was also showcased at the American Academy of Optometry in San Antonio, TX, in November. *Please see [https://www.prweb.com/releases/objectivefield\\_a\\_ground\\_breaking\\_fda\\_510k\\_cleared\\_objective\\_perimeter\\_announced\\_by\\_konan\\_medical\\_usa/prweb15825815.htm](https://www.prweb.com/releases/objectivefield_a_ground_breaking_fda_510k_cleared_objective_perimeter_announced_by_konan_medical_usa/prweb15825815.htm) to read more.*



## KBR Awarded Contract from Italmatch

KBR announced it has been awarded a contract for its PLINKE Hydrochloric Acid Purification technologies by Italmatch Deutschland GmbH for its phosphorous acid production plant in Frankfurt, Germany. Under the terms of the contract, KBR will provide technology license, basic and detailed engineering, proprietary equipment and related advisory services to Italmatch to help with the production of phosphorous acid as well as absorption and recovery of hydrochloric acid. KBR has more than 70 years of experience in PLINKE acid treatment and has built more than 550 plants for treatment and concentration of inorganic acids and acidic waste water worldwide.

—Please see <https://www.kbr.com/en/insights-events/press-release/kbr-awarded-hydrochloric-acid-purification-contract-italmatch> for more on this.

### MEETINGS CALENDAR

**Dec. 17-18, 2019;** Embry Riddle Aeronautical University (ERAU) Human Factors Analysis Classification System (HFACS) classes; Las Vegas, NV. For more information, please visit <https://proed.erau.edu/courses/hfacs>.

**Jan. 6-10, 2020;** AIAA Science and Technology Forum and Exposition; Orlando, FL. This forum will discuss fluid dynamics, applied aerodynamics, guidance, navigation, and control, structures, and more. For more information, please visit <https://www.aiaa.org/events-learning/event/2020/01/06/default-calendar/SciTech2020>.

**Jan. 14-16, 2020;** 2nd International Academy of Astronautics (IAA) Conference on Space Situational Awareness; Arlington, VA, USA. For more information, please visit <https://www.aiaa.org/events-learning/event/2020/01/14/default-calendar/2nd-iaa-conference-on-space-situational-awareness>.

## Mayo Clinic to Build Carbon Ion Therapy Facility

Mayo Clinic and Hitachi, Ltd., have reached an agreement in principle to build a carbon ion treatment facility as part of Mayo Clinic's recently announced integrated oncology facility which will be constructed at Mayo Clinic's campus in Jacksonville, FL. While carbon ion therapy was discovered in the United States in the 1970s, there currently are no carbon ion therapy treatment centers in North America. The technology is only available at a handful of centers in Asia and Europe. Carbon ion therapy is capable of killing cancer cells that are resistant to traditional radiation therapy. It can also be targeted to the tumor, minimizing the dose to surrounding tissue.

—Please see <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-hitachi-to-build-first-next-generation-carbon-ion-therapy-treatment-facility-in-north-america/> to read more about this.

### FAA Colloquium

#### Postmortem Forensic Toxicology in Aviation

The Federal Aviation Administration's (FAA's) Civil Aerospace Medical Institute is again organizing the Arvind Chaturvedi Colloquium on Postmortem Forensic Toxicology in Aviation to be held **April 7-9, 2020**, at the FAA Mike Monroney Aeronautical Center in Oklahoma City, OK, USA.

The meeting will be a scientific platform for medical examiners, pathologists, coroners, forensic toxicologists, academics, students, aerospace medicine scientists and specialists, regional flight surgeons, and NTSB personnel and other accident investigation authorities.

If you are interested in attending, **please respond by January 31, 2020**. For more information and registration, please visit: <https://cami-colloquium.eventbrite.com/>.