



Ever Upward: February 2022

A Sign of the Times

by Pam Day, Managing Editor

There is no denying that we live in a digital age. As much as I would like to put that genie back in the bottle sometimes, I know it is not going to happen. As our Editor, Dr. Bonato, mentioned in his editorial last month [AMHP 2022; 93(1):1-2], big changes are coming to the journal.

For years I have resisted defaulting to the online journal as the journal of record and the primary member benefit. I still believe in print and think it is better for reading and retention, but let's face it, everybody is reading more and more online. Therefore, beginning with the July 2022 issue, the online journal will become the default member benefit and members will be asked to opt in and pay to receive a paper copy.

Decisions such as this are not made lightly. Many factors are taken into consideration. For example, the pandemic has exposed some weaknesses in our print model. The basic element of any print journal is paper. But because pulp mills have been focused on cardboard boxes for shipping our online purchases, there is a shortage of paper for books and journals. This has led to significant increases in the price of printing paper over the past 2 years. We do not have any way to offset these increases, so that had to be taken into account. Postage has also increased over the past several years. Rather than raise membership dues, which have not been increased in over 10 years (!), we have decided to ask members to pay \$100 per year for the print version of the journal, if they so choose. Subscribers already pay extra for print, as do Emeritus Members and Students who want a paper copy.

The silver lining in this change is that by moving to a different type of printing (a digital printer—like a high-end copier), we can actually print in color for a lot less money. This is a boon to authors and readers alike. Where we used to have to charge authors the full cost of color printing on a 4-color web press, we can now charge a modest fee for processing and printing. We hope that most authors will take advantage of this and choose to publish all of their figures in color. The end result should be a very handsome 4-color journal and I hope that many of you will see the value in paying a bit more for it.

Bottom line: As of July 2022, members will no longer receive the paper (hard) copy of the journal unless they opt in and pay an additional \$100 per year for a subscription. I had hoped to be retired before this change took effect, but I am still here, at least until the end of the year!

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AsMA Offers Webinar

AsMA, in coordination with the Mission-Next Foundation, is offering a webinar titled "Dispatches from the Front: A Third World War...It's All About the Air." The webinar will be presented virtually via Zoom Webinar on Saturday, February 26, 2022.

This webinar is the first in a series of webinars designed to provide physicians and other preventive health professionals accredited Continuing Medical Education units to educate them on the rationale and science behind providing clean air in indoor shared air spaces for both COVID response today and future resiliency of infrastructure (including medical and transportation) tomorrow.

The Mission-Next Foundation is a veteran sponsored 501(c)(3) incorporated non-profit that partners with other veterans, value-driven citizens, and ethically aligned scientists. Mission-Next is building sustainable relationships while building stronger and more resilient communities.

The Mission-Next Foundation sponsors the Independent Shared Air Strategic Research Board (ISASRB), Co-Chaired by Lt. Gen. (Ret.) Dr. P. K. Carlton, Jr., the 17th Surgeon General of the U.S. Air Force and Mr. Jim Mathews, the President and CEO of the Rail Passenger's Association and former senior editor of *Aviation Week*. Together with our partners, the ISASRB works to reframe and then win the War on COVID today and strengthen our nation tomorrow.

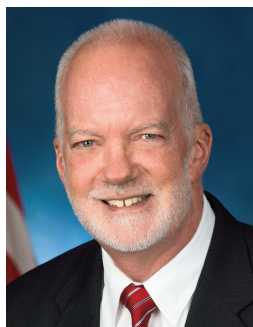
Details for the 26 February 2022 webinar:

- Zoom Webinar
- Part 1: 3:00 pm–4:25 pm
- Part 2: 4:40 pm–7:00 pm
- Registration: \$25.00 without CME
- Additional Fee for CME: \$50.00
- CME: 3.75 AMA PRA Category 1 Credits™

Please visit <https://go.members.asma.org/events/upcoming-events> to register.

In Memoriam: John Charles

AsMA staff were saddened to hear of the passing of John B. Charles, Ph.D., a Fellow of AsMA, in mid-January. He had



served as the Chief Scientist of NASA's Human Research Program (HRP). Previously he was HRP's Associate Manager for International Science and led NASA's space life sciences planning for the joint US/Russian 1-yr mission on ISS and the Twins Study. He was retired from NASA and was passionate about space medicine history.

Dr. Charles earned his B.S. in biophysics at The Ohio State University and his doctorate in physiology and biophysics at the University of Kentucky. He came to the Johnson Space Cen-

See 'Charles,' p. N6

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

ter in 1983 as a postdoctoral fellow and became a civil servant in 1985. He was principal investigator on cardiovascular experiments on Space Shuttle flights and on the Russian space station Mir. He was co-developer of the Shuttle-era fluid-loading countermeasure and investigated the cardiovascular effects of spaceflight using ultrasound, re-entry data recording, and in-flight lower body negative pressure on Space Shuttle astronauts and on crewmembers of the Russian space station Mir. He directed the NASA life sciences research for American astronauts' missions to the Mir, for the second spaceflight of John Glenn in 1998, and for the multi-disciplinary mission on Columbia in 2003. He led the Bioastronautics Roadmap project for human risk reduction for space exploration missions through focused research and technology and was the space life sciences representative in NASA's lunar and Mars exploration planning.

Dr. Charles chaired the local organizing committee for the 18th Humans in Space Symposium of the International Academy of Astronautics and published 75 scientific and space history articles. His professional awards included the National Space Club and Foundation's Eagle Manned Mission Award. He received NASA's Exceptional Service Medal, the "Silver Snoopy" astronaut recognition award, and both the Young Investigator of the Year award and the Hubertus Strughold Award from the Space Medicine Association of the Aerospace Medical Association (AsMA). He also received AsMA's Joe Kerwin Award in 2011, was a Past President of the Space Medicine Association, and was a recent chair of the AsMA History and Archives Committee.

New Members

AsMA welcomes 22 new members in February.

- Allen, Travis; Litchfield Park, AZ, USA
- Anderman, Meghan; Ann Arbor, MI, USA
- Berry, James; University City, MO, USA
- Canales, Jose; Mascotte, FL, USA
- Crump, Gloria; Park City, KY, USA
- Ford, Ingrid; Colorado Springs, CO, USA
- Gupta, Anushka; Woodland, CA, USA
- Melin, Matthew; Edina, MN, USA
- Nordeen, Steven; Centerville, OH, USA
- O'Shaughnessy, Reyne; Sewickley, PA, USA
- Ribak, Nadav; Johns Creek, GA, USA
- Ryan, Gabriela; Tampa, FL, USA
- Saadedeen, Waleed; Brooklyn, NY, USA
- Schonau, Jesse; Pensacola, FL, USA
- Schwartz, Daniel; Augusta, GA, USA
- Sehar, Najamus; Houston, TX, USA
- Shaw, Madison; Greenville, NC, USA
- Sherwood, Matthew; Sidney, OH, USA
- Tahir, Tooba; Surbiton, Greater London, UK
- Wilson, Jonathan; Dothan, AL, USA
- Wong, Marcus; London, UK
- Yourison, Isaac; Dayton, OH, USA

Read Current News Online!

Visit the AsMA, Member, & Industry News to see what's new! Members: please check the Job Fair each month; new jobs are posted as we receive them.

AMHP Still in Top Ten

IngentaConnect has examined the data for all titles on their platform and AsMA's titles rank in the top 30 for downloads, with AMHP being in the top 10.

For November 2021:

- *Aerospace Medicine and Human Performance* ranks 8th with 3,206 downloads
- *Aviation, Space, and Environmental Medicine* ranks 27th with 1,639 downloads

For the period December 2021:

- *Aerospace Medicine and Human Performance* ranks 10th with 2,491 downloads
- *Aviation, Space, and Environmental Medicine* ranks 27th with 1,206 downloads

FAA News

Airport Noise and Compatibility Planning Guidance

The Federal Aviation Administration (FAA) invites the aviation industry and the public to comment on a planned update to guidance for evaluating noise and land use around airports. The agency will consider comments received as it prepares to update the Noise Control and Compatibility Planning for Airports advisory circular AC 150/5020-1. The advisory circular provides airport sponsors guidance on how to conduct an airport noise and land use compatibility study to meet the requirements of Federal Aviation Regulation, Part 150. The study, commonly called a Part 150 study, provides a structured process to evaluate the compatibility of property surrounding airports with airport noise and develop mitigation measures. Sponsors who participate in the Part 150 process may be eligible to apply for Airport Improvement Program grant funding to mitigate noise impacts. Conducting a Part 150 study is voluntary, but once an airport sponsor chooses to participate, it must comply with statutory, regulatory, and Airport Improvement Program grant assurances. The public may review the document and submit comments until February 25, 2022.

FAA AME Seminars

These seminars are offered by the FAA AME Program office. The FAA also offers the [Federal Air Surgeon's Medical Bulletin](#), [Airman Education Programs](#), and a [Safety Briefing](#).

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| March 21-25, 2022 | Oklahoma City, OK | Basic |
| May 22-26, 2022 | Reno, NV | AsMA |
| July 18-22, 2022 | Oklahoma City, OK | Basic |
| Aug. 5-7, 2022 | Washington, DC | Refresher |
| Sept. 22-24, 2022 | Albuquerque, NM | CAMA |
| Oct. 24-28, 2022 | Oklahoma City, OK | Basic |
| Nov. 18-20, 2022 | Oklahoma City, OK | Refresher |

Please check the [FAA website](#) for more information.

PLEASE NOTE: AsMA only takes registrations for the seminar held in conjunction with our annual meeting.

NEWS OF CORPORATE MEMBERS

Mayo Clinic Signs Agreement with Seguros Reservas

Mayo Clinic has signed an agreement with Seguros Reservas, an insurance company in the Dominican Republic, for coverage of care at Mayo's U.S. sites. Under this agreement, Seguros Reservas policyholders will have access to care at Mayo Clinic in Rochester, MN; Jacksonville, FL; and Phoenix and Scottsdale, AZ. Mayo Clinic recently opened a patient information office in Santo Domingo to assist patients who wish to make appointments at Mayo Clinic locations. The office staff, fluent in Spanish and English, will help patients, their families and physicians who refer patients to make appointments. The office does not provide medical attention. Mayo Clinic also has patient information offices in Colombia, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Panama, Peru, and Canada.

—Please visit <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-signs-agreement-with-seguros-reservas/> to read more.

UTMB Researchers' Hamster Study Could Lead to Better COVID-19 Vaccines

A behavioral test for hamsters can be used as a fast and simple indicator of how efficient vaccines or therapeutics are against SARS-CoV-2 infections, researchers at the University of Texas Medical Branch (UTMB) have found. In a study published in January in Scientific Reports from Nature, UTMB researchers describe how they developed a behavioral test to determine anosmia—the loss of the sense of smell—for hamsters that were infected with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). The study found a moderately strong correlation between the level of a loss of smell and the thickness of the olfactory epithelium—the tissue in the nasal cavity that is involved in the sense of smell. That same tissue was severely damaged when infected. The study found a correlation between infected hamsters that recovered their sense of smell and the repair of the nasal cavity tissue. Researchers hid a cookie in the corner of a cage of each hamster infected with SARS-CoV-2. Then they timed how long it took each hamster to find its cookie. Those with thicker olfactory epithelium could smell quicker. Those that couldn't find the cookies had a severe loss of smell. “This food-searching behavioral test can act as a simple and effective screening method in a hamster model for various therapeutics for SARS-CoV-2-related anosmia,” the study stated.

—Please see <https://www.utmb.edu/news/article/utmb-news/2022/01/13/test-for-hamsters-loss-of-smell-might-speed-development-of-covid-19-treatments> for more on this.

Want to see your company's news here?

Corporate Member benefits include discounted advertising & meeting rates, and networking and recruitment opportunities. If your company is not a member, become one! Visit www.asma.org/for-corporations to learn more about membership benefits and how to apply.

KBR & Partners to Remove Level Rail Crossings

KBR, as part of the North Western Program Alliance, has been awarded the Pakenham Level Crossing Removal package that will remove three additional railroad level crossings, upgrade the existing Pakenham station, build a new train station, and provide open green spaces for the local community located 50 km northeast of Melbourne, Australia. This is the seventh and largest work package to date for the alliance, which includes the government authority Level Crossing Removal Project (LXRP), Metro Trains Melbourne (MTM), KBR, and construction partner John Holland. Thus far, the alliance has removed eight level crossings and built four new stations as part of the Victorian Government's scheme to enhance safety and capacity and keep the city moving. The project will elevate the rail line over three busy Pakenham roads using the innovative pre-cast U-Trough solution that was first introduced as part of the Mernda Rail Extension. Due to its flexibility and cost efficiency, the U-Trough solution is now a preferred option for elevated rail across all LXRP projects. The alliance plans to uphold their legacy in delivering the first 5 Star Green Star As Built Rating train station at Reservoir for the Pakenham package by placing social and environmental sustainability at the forefront of the project. The design aims to improve livability through landscaped green spaces for the community to gather, exercise and play in as well as minimize climate change impacts by significantly reducing water and energy use during construction and operation.

—Please visit <https://www.kbr.com/en/insights-news/stories/kbr-and-alliance-partners-remove-additional-level-rail-crossings-following> to read more.

Corporate News Bites

AOPA: The Aircraft Owners and Pilots Association (AOPA) applauded the Federal Aviation Administration's (FAA's) decision to approve hundreds of additional piston aircraft engine models to burn the 100-octane unleaded avgas developed by General Aviation Modifications Inc. This is another step in the FAA's approach to eliminating leaded aviation fuel. For more on this and other news, please visit <https://www.aopa.org/news-and-media/all-news/2022/january/pilot/aopa-action-january-2022>.

ALPA: Capt. Joe DePete, president of the Air Line Pilots Association, Int'l (ALPA), issued a statement today after AT&T and Verizon once again delayed the deployment of 5G signals around key airport locations so that aviation stakeholders, including pilots, can ensure the safety of the air system by protecting commercial airliners against radar altimeter interference. To read that statement, please see <http://www.alpa.org/news-and-events/news-room/2022-01-18-keep-aviation-safe-new-faa-5g-guidance-airports>.

IFALPA: The International Federation of Airline Pilots has released three new safety briefings. The first regards COVID-19 guidance for crews, the second the use of masks in the cockpit, and the third is about COVID-19 vaccines. To read these briefings or see others, please visit <https://www.ifalpa.org/publications/>.