



Ever Upward: August 2022

Susan Northrup Installed as AsMA President; Joseph Dervay as President-Elect

Susan E. Northrup, M.D., M.P.H., FAsMA, was installed as President of AsMA during the Annual Business Meeting, held May 24, 2022 at the Peppermill Resort and Casino in Reno, NV. In 2021 Dr. Northrup was appointed as the first female FAA Federal Air Surgeon. She joined the FAA in April 2007 as the Southern Regional Flight Surgeon. She is now responsible for all aerospace medicine efforts within the FAA including airman medical certification, air traffic control health program, AME designee management, internal and external substance abuse testing, and aeromedical research. She was awarded the FAA's Flight Surgeon of the Year Award in 2008 and Outstanding Manager in 2018. In 2017, she was selected as the Senior Regional Flight Surgeon with operational responsibilities for the entire nation. Prior to joining the FAA, she was Regional Medical Director for Air Crew and Passenger Health Services for Delta Air Lines from 2001 to 2005, Medical Consultant for the National Pilots Association 2005 to 2007, and did other consulting from 2005–2007. She served in the U.S. Air Force on active duty from 1990 to 2001, and as a Reservist from 2001 to 2010, retiring as a Colonel.



Dr. Northrup obtained a Bachelor of Arts in Chemistry with Honors in Liberal Arts from The Ohio State University in 1985 and stayed on to get her Medical Degree in 1989. She was awarded a Masters in Public Health from the University of Texas, Health Science Center Houston, School of Public Health in 1994. She completed Residencies in Aerospace Medicine and Occupational Medicine in 1995 and 1996, respectively, becoming Board Certified in both disciplines.

A private pilot, Dr. Northrup is an acknowledged expert in aviation medicine. While serving in the Air Force, she was the U.S. Head of Delegation to NATO's aeromedical working group. More recently, she has served the FAA as the FAA medical subject matter expert to ICAO's COVID response activities and the COVID IMT and the Office of Aerospace Liaison to the Air Traffic Organization.

Dr. Northrup's awards and honors include TAC Flight Surgeon of the Year, the Air Force Meritorious Service Medal with two oak leaf clusters, the Air Force Achievement Medal with a single oak leaf cluster, and the Air Force Outstanding Unit Award with Valor and a single oak leaf cluster. The Aerospace Medical Association presented her with the John A. Tamisiea Award in 2015 and the Admiral John C. Adams Award in 2020. A Fellow of AsMA, she is a member of the Red River Valley Fighter Pilots Association, the Society of USAF Flight Surgeons, the International Airline Medical Association, the Civil Aviation Medical Association, and the American Society of Aerospace Medicine Specialists. She spent nine years (2007–2016) as a trustee for the American

Board of Preventive Medicine in several capacities, including as the Vice Chair Aerospace Medicine. She is also a Selector for the International Academy of Aviation and Space Medicine and was Chair of the Air Transportation Association Medical Committee. She is on the Adjunct Faculty for the USAF School of Aerospace Medicine.

Joseph P. Dervay, M.D., M.P.H., MMS, FACEP, FAsMA, FUHMS, was elected as President-Elect of AsMA during the Annual Business Meeting, on May 24, 2022. He will be installed as President next year. Dr.



Dervay is currently a Flight Surgeon at the NASA Johnson Space Center, having served there over 25 years. Completing undergrad at Cornell University, and a Doctor of Medicine at Syracuse - Upstate Medical Center, he subsequently trained to become a Navy Flight Surgeon, serving aboard the aircraft carrier USS *John F. Kennedy*.

Dr. Dervay completed an Emergency Medicine Residency at The George Washington University, Space Medicine Fellowship and Aerospace Medicine Residency at UTMB Galveston/NASA, and Hyperbaric Medicine training at University of Texas Health Science Center, Houston.

Dr. Dervay has served as Crew Surgeon during numerous Space Shuttle and long-duration International Space Station missions, including support of the 2020 NASA/SpaceX Demo-2 test flight as the first Commercial Crew mission. His roles have included work in Russia at the Star City Cosmonaut training center, and support of U.S. astronauts during Soyuz launch and landing activities in Kazakhstan. He co-chairs the Multilateral Medical Operations Panel, comprised of medical representatives from the Canadian, European, Japanese, and Russian space agencies. He completed research on Bubble Nucleation at Altitude during his Master of Medical Sciences degree and has been deeply involved with development of NASA EVA Prebreathe Protocols.

Retiring with the Navy rank of captain, Dr. Dervay completed 35-years of Active and Reserve service with numerous Navy & Marine Corps units worldwide. He has been a member of AsMA since 1985. Prior to selection as President-Elect, he served 3 years as an AsMA Vice President. Over his years of service to AsMA, he served four 3-year terms on AsMA council as a Member-at-Large, and several years on the Executive Committee. He has been a longstanding member of the Scientific Program Committee and was Scientific Program Chair for the 2007 meeting in New Orleans. He has served as Chair of the Communications, Membership, and Resolutions Committees. He has been a member of numerous Constituent and Affiliate organizations, including the Society of U.S. Naval Flight Surgeons and International Association of Military Pilot-Physicians. He served as President of the Society of NASA Flightsurgeons and the Space Medicine

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Association. An AsMA Fellow, he was inducted into the International Academy of Aviation and Space Medicine (IAASM).

Other elected officials are: **Vice Presidents:** Robert Orford, M.D., CM, MS, M.P.H. (2-yr term), Warren Silberman, D.O., M.P.H. (2-yr term), and Rebecca Blue, M.D. (1-yr term – to complete Dervay's term); and **Treasurer:** Casey Pruett, B.S., M.S., MBA. **Members-at-Large** are: Ilaria Cinelli, Ph.D., W. Brent Klein, M.D., M.P.H., Peter Lee, M.D., Ph.D., M.P.H., M.S., and Anthony Wagstaff, M.B.B.Ch., D.Av.Med.

The 92nd Annual Scientific Meeting: The Week in Pictures

Sunday, May 22, 2022

The Scientific Program Committee, chaired by Dr. Charles Reese (below), met to provide orientation to the session chairs. [A photo gallery is available at <https://aeromed.smug-mug.com/AsMA-92nd-Annual-Scientific-Meeting/>.]



The Welcome Reception, sponsored by the Mayo Clinic, provided great food and a chance to view the exhibits and visit with friends.



Among the exhibitors were AsMA Corporate Members KBR, UTMB, and ETC (below).



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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.

Monday, May 23, 2022



(Photos top row to bottom row, left to right).

UHMS President, Dr. Marc Robins, and AsMA President, Dr. James DeVoll, co-oped the annual meeting. AsMA Past President Dr. Joe Ortega presented the slate of officers for AsMA.

The Stanley R. Mohler, M.D., Aerospace Medicine Endowed Scholarship was presented to Lauren Church by Kim Broadwell, representing the AsMA Foundation, and Jim DeVoll, AsMA President for 2021-2022. The Anita Mantri, Ph.D., Memorial Travel Scholarship was presented to Victoria Tucci by Kim Broadwell, representing the AsMA Foundation. The recipient of the AsMA International Scholarship, Ahmed Baraka, could not be present.

The Curtis Langdon Group played at Opening Ceremonies.

Speed Mentoring Program pairs AsMA members who are established in their careers with younger members and students interested in learning about careers in Aerospace Medicine. It is done like Speed Dating!

Gary Gray receives his pin as a Member of AsMA for 50 years. Other 50-yr members who could not be present are: John Bishop, Ernst Hollman, Chandler Phillips, and David Zanick.



Job Fair: Members---Log on via www.asma.org & click on 'Job Fair & Classifieds' in the left-hand column.

Tuesday, May 24, through Thursday, May 26



At the Corporate Forum Reception—Pam Day, Adam Sirek, Marian Sides, Katy Samoil, and Ari Epstein.



At the International Reception—Eric Sprague and Bob Laurent, representing the sponsors, ETC.



Trumbo 5k Run/Walk top 3 female and male winners with UHMS President Marc Robins: Jared Price, Karen Ong, Sherry Iyer, Joanna d'Arcy, Abigail Vargo, and Alex Wolbrink.



The RAM Bowl in action. Photo by Tom Workman.



Jim DeVoll and his family at the President's Reception.



Sean Daigre, representing Harvey Watt & Co., sponsor of the President's Reception, with AsMA President, Jim DeVoll.



Left: Passing the gavel from outgoing AsMA President, Jim DeVoll, to incoming President Susan Northrup. Center: Susan Northrup presents the Past President's gift. Right: Jim DeVoll's daughter, Marguerite, pins him with the Past President's Pin.

AEROSPACE MEDICAL ASSOCIATION HONORS NIGHT AWARDS

Peppermill Resort & Casino, Reno, NV, May 26, 2022

This year our Honors Night Ceremonies were shared between the Aerospace Medical Association (AsMA) and the Undersea and Hyperbaric Medical Society (UHMS). Both organization presented their annual awards. The president of AsMA, James R. DeVoll, M.D., M.P.H. and the president of UHMS, Marc Robins, D.O., presided over each organization's awards.

Dr. DeVoll presented 19 awards to outstanding members during the Honors Night ceremonies at the 93rd Annual AsMA Scientific Meeting, May 26, 2022, at the Peppermill Resort and Casino, Reno, NV. Eric Olins, M.D., Chair of the Awards Committee read the citations, assisted by Dr. Dwight Holland. The names of the awards' sponsors and representatives, when present, are printed in parentheses.



James DeVoll, 2021-2022 AsMA President

All photos by Pamela C. Day. A photo gallery is available at: <https://aeromed.smugmug.com/Honors-Night-2022/>.



ADMIRAL JOHN C. ADAMS AWARD

Lina Maria Sanchez Rubio, M.D., Ph.D., Col.(Ret.)
(Jonathan Elliott, Society of U.S. Naval Flight Surgeons)



LOUIS H. BAUER FOUNDER'S AWARD

Marian B. Sides, Ph.D., M.S.N.
(Clayton Cowl, Mayo Clinic)



BOOTHBY-EDWARDS AWARD

Ian Hosegood, MBBS, DAvMed
(Kate Manderson accepts)
(Michael Berry for Harvey W. Watt & Co.)



JOHN ERNSTING AWARD

William P. Butler, M.D.
(George Anderson, Environmental Tectonics Corporation)



KENT K. GILLINGHAM AWARD
Peter A. Hancock, D.Sc., Ph.D. (Dwight Holland accepts)
(Erich Roedig, AMST)



WALTER AND SYLVIA GOLDENRATH AWARD
Deborah J. White, Ph.D., M.B.A., M.A.
(AsMA Foundation)



WON CHUEL KAY AWARD
David Powell, M.D., M.Sc.
(JounSoon Jang, Aerospace Medical Association of Korea)



JOE KERWIN AWARD
Serena Auñon-Chancellor, M.D. (Casey Pruett accepts)
(Keith Kreutzberg, KBR)



SIDNEY D. LEVERETT ENVIRONMENTAL SCIENCE AWARD,
Jeremy Beer, Ph.D.
(Bob Laurent, Environmental Tectonics Corp.)



ERIC LILJENCRANTZ AWARD,
Rebecca Blue, M.D., M.P.H.
(Jeff Sventek for Aerospace Medical, PLC)



RAYMOND F. LONGACRE AWARD
Matthew Dumstorf, M.D., M.S.
 (Tom Nesthus, Aerospace Human Factors Assoc.)



THEODORE C. LYSTER AWARD
Nereyda Sevilla, M.P.H., Ph.D.
 (Susan Fondy, Society of U.S. Army Flight Surgeons)



MARIE MARVINGT AWARD
Daniel Berry, D.O., Ph.D.
 (Olivier Manen, Société Francophone de Médecine
 Aérospatiale)



HARRY G. MOSELEY AWARD
 Todd Dart, Ph.D.
 (Christopher Backus, Int'l Association of Military Flight
 Surgeon Pilots)



JOHN PAUL STAPP AWARD
Lindley Bark, B.S.
 (Alper Kus, Environmental Tectonics Corp.)



JOHN A. TAMISIEA AWARD
Clayton Cowl, M.D., M.S.
 (David Schall, Civil Aviation Medical Association)



THOMAS J. AND MARGARET D. TREDICI AWARD
Harriet Lester, M.D.
 (Kim Broadwell, AsMA Foundation, and Douglas Ivan,
 Tredici Endowment Fund)



ARNOLD D. TUTTLE AWARD
Ross Pollock, B.Sc., M.Sc., Ph.D.
 (Keith Kreutzberg, KBR)



JULIAN E. WARD MEMORIAL AWARD
Bonnie Posselt, B.Sc., MBChB, DAvMed
 (Christopher Backus, Society of USAF Flight Surgeons)



2020 JOE KERWIN AWARD
Jeffrey R. Davis, M.D.
 (Joe Ortega, 2020 AsMA President,
 and Keith Kreutzberg and Genie Bopp, KBR)



2021 LOUIS H. BAUER FOUNDER'S AWARD
David Newman, M.D.
 (Charles DeJohn, 2021 AsMA President. Sponsored by the
 Mayo Clinic)



PRESIDENT'S CITATION: The Staff of the Aerospace
 Medical Association received the honor. Left to right: Jeff
 Svntek, Sheryl Kildall, AsMA President James DeVoll,
 Pamela Day, Rachel Trigg, and Gisselle Vargas.

Abridged Minutes of the Aerospace Medical Association 92nd Annual Business Meeting

Tuesday, May 24, 2022

Peppermill Resort & Casino, Reno, NV

(Full minutes can be accessed in the Members Section of the AsMA website: www.asma.org.

You must log in to access.)



DeVoll



Sventek

Call to Order (James Devoll): A quorum of more than 100 members in attendance was met and the meeting started at 12:00 pm PDT on Tuesday, May 24, 2022.

In Memoriam (DeVoll): The president asked attendees to pause to remember those members who passed away this year.

Recognition of Past Presidents (DeVoll): Dr. DeVoll invited the Past Presidents of AsMA to rise and be recognized.

Report of the President (DeVoll): Welcome to everyone and thank you for being here today. This in person meeting in Reno during our usual May time frame has been a long time coming. A typical governance year would have only two Council meetings, but this year we are having three: August in Denver, our usual mid-year meeting in November, and now. This is a breath of fresh air to communicate with people in person. We are returning to normalcy.

AsMA has continued to support the work of CAPSCA as part of ICAO and the efforts to improve aviation safety in the era of COVID and beyond. Dr. Kris Belland serves as AsMA representative to CAPSCA and continues to do an outstanding job. In January, AsMA representatives (Drs. Salicrup, Schroeder, Wilkinson, and Blocker) provided commentary on a proposed Electronic Bulletin regarding the return to duty, fitness to fly, and/or control post COVID infection. This has been an important effort highlighting the contributions of AsMA to the international aviation industry.

The Home Office staff has continued to be fantastic throughout a hectic year of unique challenges, not to mention the additional planning and coordination challenges of the joint meeting with the Undersea & Hyperbaric Medical Society.

In the February 2022 Newsletter, Pam Day laid out the approved change in the Journal previously approved: the online

version will be the primary member benefit starting in July, with an added benefit of greatly reduced cost for color images.

ACGME: The movement to provide definition and separation between the three preventive medicine specialties has certainly been tortuous but we are continuing to see progress. Comments were due to ACGME by Mar 30. [Ed. Note: This was approved in June.]

ACOEM has proposed hosting two virtual roundtables (each 1.5 to 2 hours in length) and an online survey to explore the impact of obesity in the aerospace and defense industry, provide awareness of programs to fight obesity, and identify the feasibility of implementing a comprehensive obesity benefit for employees in this industry. Among other meetings, we are planning a meeting with the Indian Society of Aerospace Medicine this week.

Future issues: A review and update of our dues structure.

Report of the Executive Director (Sventek): Mister President, officers, and members of the Aerospace Medical Association, I am happy to report that the Aerospace Medical Association is slowly recovering the negative impact of the COVID-19 pandemic. Organizations around the world were negatively impacted by this deadly virus; AsMA was organized, equipped, and operating remotely for several years. The AsMA HQ team business model included working in the AsMA office building 3 days each week and remotely 2 days per week. When government agencies recommended a shelter in place prevention plan, Gisselle Vargas and I built a schedule that required one AsMA employee in the office in the morning, one morning per week. The AsMA employee would arrive at normal opening time and work in the office until the mail was delivered. The employee would sort the mail and distribute appropriately. Once completed, the AsMA employee would then return home and work the remainder of the week safely from home. We are continuing this work schedule until it is clear the virus is completely under control. It should be noted that all AsMA Staff members are full vaccinated against the COVID-19 virus and all of us have received the recommended booster shots as well. I would like to publicly thank the incredible AsMA Staff and our Journal independent contractors for their strong work during the pandemic.

The work of the Association also continued during the pandemic through the efforts of the AsMA Council and AsMA volunteers. I want to thank all who volunteered this past two plus years to help move the Association forward. Thank you for your continued strong support of the Aerospace Medical Association.

AsMA membership dropped during the pandemic but has recovered to around 2,000 active and paying members. As of this report, AsMA membership totals 1,999. We believe part of the reason for the drop in membership was due to not being able to host an inperson Annual Scientific Meeting in 2020 and a mostly U.S. attended meeting in August 2021 in Denver, CO. Many of our members take the opportunity to renew their memberships during the Annual Scientific Meeting and even though our AsMA Staff sent out dues renewal notifications, many members may have waited to renew, hoping an in-person Annual Scientific Meeting would happen. Thanks to all who renewed when notified by the AsMA Staff. We will continue to work toward getting our member-

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ship back to the 2,100 number we had prior to the COVID-19 pandemic.

To offer our membership Continuing Education opportunities, AsMA continues to offer virtual continuing education via webinars. AsMA, in collaboration the International Academy of Aviation and Space Medicine (IAASM), hosted a total of three webinars in 2021. Those webinars offered participants updates on the impact of COVID 19 on aviation and space operations as well as plans for preparing to manage the next pandemic. The three webinars offered physicians up to 8.75 hours of CME credits. In 2022, AsMA collaborated with the Mission-Next Foundation in hosting a webinar focused on 'Air Purification Strategies and Technologies to Defeat COVID Today and the Biothreats of Tomorrow.' This webinar offered 3.75 CME credits to physicians. Finally, AsMA collaborated once again with our IAASM colleagues in organizing "Aeromedical Aspects of Civilian Evacuation: Preparation, Reaction and Response." This was another well-attended webinar and offered physicians up to 2.75 CME credits. AsMA will continue to evaluate areas of interest that can be offered via webinar throughout the year so those who cannot attend our Annual Scientific Meeting in person can still benefit from the many Aerospace Medicine experts within our membership.

The 1st International Conference of Aerospace Medicine, scheduled for September 2020, was cancelled, and rescheduled for September 2021. The four organizing associations for this joint international conference includes the Aerospace Medical Association (AsMA), IAASM, the European Society of Aerospace Medicine (ESAM), and La Societe Francaise de Medecine Aerospatiale (SOFRAMAS). These four organizations continued to work toward a successful September 2021 event but realized that international travel would likely be a problem through 2021 and possibly into 2022, so the ICAM was postponed again to September 2022. I encourage you to mark your calendars for September 22 through 24, 2022 to attend the 1st International Conference of Aerospace Medicine in Paris, France. Registration for this conference is now open via the AsMA website as well as the ICAM 2022 website.

As of this morning, total registration for this year's joint AsMA/UHMS meeting is 1487. Of this total 1,195 (80.4%) are registered as AsMA attendees and 292 (19.6%) are registered as UHMS as UHMS attendees. This registration total is about the normal number of the registrations we would receive for an AsMA Annual Scientific Meeting during a year without COVID-19. However, the total registrations include a large number of UHMS attendees who might not normally attend an AsMA Annual Scientific Meeting. The 1,195 AsMA registrants represents about 80% of a normal AsMA Annual Scientific Meeting attendance. We are very pleased to have our UHMS colleagues joining us this year Reno.

Finally, I am required to report the Aerospace Medical Association financial status for 2021. Details are in the Treasurer's report, but the 2021 financial records received completed a full audit by Gross, Mendolosohn & Associates, P.A. on April 4, 2022. According to the Audit Report:

"In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Aerospace Medicine Association as of December 31, 2021 and 2020 and the changes in its net assets and its cash flow

for the years then ended in accordance with accounting principles generally accepted in the United States of America. The financial statement disclosures are neutral, consistent, and clear. We encountered no significant difficulties in dealing with management in performing and completing our audit."

Report of the AsMA Foundation Chair (Kim Broadwell): Dr. Broadwell thanked members for donating \$2,805 during the annual meeting registration to the AsMA Foundation, with a grand total of \$105,000 in the last 15 years.

AsMA members were saddened by the untimely passing of Dr. John B. Charles in February 2021. To honor Dr. Charles' leadership and scientific contributions to Space Medicine, the Space Medicine Association (SMA) established the JB Charles Research Scholarship which will be awarded at the annual SMA luncheon.

Dr. Mark Campbell has been a leader in the formation of the Space Surgery Association (SSA), an AsMA affiliate organization. The SSA is an international organization of surgeons and other physicians, procedural medicine specialists, and engineers working to develop capabilities to perform operative care in microgravity. In December 2021, Dr Campbell and his wife Betsy signed an agreement with the Foundation creating and funding the Mark and Betsy Campbell Endowed Fund to support the SSA Future Researcher Award.

The AsMA Foundation continues to serve AsMA and its members to provide CME and Genie Bopp, Foundation Secretary/Treasurer, reports that the Foundation is solid financially with assets on December 31, 2021 totaling \$662,746, up from \$563,540 at the close of 2020.

GOVERNANCE (Susan Northrup)

Report on ASMA Bylaws Changes (Eilis Boudreau): A large number of sections within the bylaws urgently need to be corrected. Our bylaws need to be changed to accommodate virtual meetings or hybrid meetings. Thanks to Dr. DeVoll and Dr. Baisden for their review and input. These changes have been vetted through the Executive Committee and the AsMA Council. Jim Devoll asked for a motion to approve the AsMA Bylaws changes reflecting new ethics guidance. A motion was made by the Bylaws Committee to make bylaws changes to allow for virtual and hybrid meetings. Both motions were seconded and passed.

The proposed bylaws changes will be published in the Newsletter and are in the Reno AsMA meeting APP and presented on screen during the business meeting. Approved changes into the AsMA Bylaws can be found at:

(<https://www.asma.org/asma/media/AsMA/Governance/AsMABylaws.pdf>) and the AsMA Policies and Procedures Manual: (<https://www.asma.org/asma/media/AsMA/Governance/AsMA-PP-Manual.pdf>).

Nominating Committee Report (H. Ortega): The Slate of Officers was assembled between Sept. 2021 and Dec. 2021. The President Elect is Joseph Dervay; Vice Presidents - Rebecca Blue (1 yr to replace Joe Dervay), Robert Orford (2 yr), and Warren Silberman (2 yr); Treasurer - Casey Pruett; Members at Large Ilaria Cinelli, W. Brent Klein, Peter Lee, and Anthony Wagstaff.

AsMA Treasurer's Report (Nereyda Sevilla): In 2021 we ended the year \$135K in the red. The 2021 budget was approved with concessions made for lower revenue and expenses as we get back to a post-COVID world. Cancelling Denver 2021 would have incurred a \$500,000 penalty and

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loss of revenue, usually in the hundreds of thousands of dollars per conference, ultimately costing AsMA approximately \$1M. Keeping the Denver conference was a break-even success yielding a net revenue of \$25K. The convention revenue was \$349K less than budgeted, with the expenses \$118K over budget. Since the convention provides the primary source of revenue, it is expected that the overall revenue is less than budget. The webinar offerings provided another \$19K in revenue new in 2021. Due to COVID, the Home Office was able to apply for and received two Payroll Protection Program funding. These are federal grants that do not have to be repaid. AsMA received a total of two PPP payments (the first \$94K and the second \$75K) totaling \$169K of additional revenue for 2021. Efforts for an automatic payment plan for membership could help in a sustained avenue of revenue. The journal did well at \$23K above budget with increases in royalties while the membership hit \$143K above budget despite the lower individual and corporate membership. The increase in membership revenue is primarily due to the PPP of \$169K. Journal expenses essential hit target but we were under budget for AsMA Management expenses due to IT and travel savings. Overall, we had hoped to break even this year, but ended \$211K below budget. The goal remains to have \$1M in the Investment Portfolio to be used for down years and unanticipated expenses. The \$280K withdrawal in 2021 covered final Denver expenses, Payroll, Hosting of Council Meeting, and Scientific Review.

Recommendations: Reassess ASMA financial position after Reno and perhaps replenishing the investment portfolio to regain our \$1M posture. Use the lessons learned from 2020 and 2021 and increase revenue with a potential virtual convention, meetings, and workshops. We will also continue to leverage the cost saving efforts from the membership and journal committees.

REPRESENTATION AND ADVOCACY (DeVoll/Jeff Sventek for Barry Shender)

Update on Aerospace Medical Association Resolution 2020 - 01: Resolution entitled "Vital Nature of Board-Certified Physicians in Aerospace Medicine," co-sponsored by Kris Belland, Joe "Bugs," Ortega with Warren Silberman, and Dan Berry, approved in 2021. Approval by AsMA aligned perfectly with the American Osteopathic Association (AOA), AOCEM, FAA House of Delegates meeting. The resolution went to Commercial Space Companies and the National Transportation Board (NTSB). President of the AMA, Dr. Harmon, was extremely happy about the letter and will compose a letter to be sent out to organizations under the AMA.

Communications Committee Report: A proposal was presented and accepted by the AsMA Council during the 2021 Annual Scientific Meeting in Denver, for an enhanced communications strategy for our Association. The proposal included improving AsMA web page user experience, rein-

forcing AsMA's STEM outreach and science communications, creating engaging content in a regular and consistent manner for all our existing and potential audiences, and teaming up with HQ staff and journal staff to produce and publish short videos, podcasts, visual abstracts, and Q&A sessions.

Scientific Program abstract mentorship update: Letters were sent to residents and students to submit presentation and posters for feedback on their posters and presentations.

EDUCATION & RESEARCH (Warren Silberman)

Education and Research Committee: Susan Fondy has done a great job with well-organized Zoom meetings and notes. She is stepping down as chair.

Science and Technology Watch is being reinvigorated and will be placing articles for the Blue Journal headed by Ryan Mayes.

MEMBER SERVICES (Joe Dervay)

Awards Committee Report (Joe Dervay): Eric Olins has done outstanding work in crafting changes to the rules for submitting awards. The approved changes to the award rules include not nominating one individual for more than two awards per year. The committee will review the 21 current awards to determine if there are awards that should be consolidated due to addressing the same general criteria.

Membership Committee Report (Joe Dervay): Dana Windhorst is stepping down as chair. Auto Dues with ACH (automated clearing house) has been established.

INTERNATIONAL SERVICES (Robert Orford)

Despite the travel restrictions that are still in place during the pandemic we have a significant international presence here in Reno.

AsMA-ESAM-IAASM-SoFRAMAS International Conference in Aerospace Medicine ICAM (Paris - Sep 2022) (Robert Orford): The conference center will be at the City of Science and Industry, it is large venue with easy access to the Metro. AsMA will be managing all the registration for ICAM. Hotels near the venue, in the Northeast part of the city, are more reasonable than the hotels downtown.

AsMA Allied Membership (Robert Orford): The program, which we expect to be sustainable if we reach 50, currently has 21 members and will be reviewed by council at the end of the year.

Unfinished Business: None

New Business: None

Closing remarks (Jim DeVoll): Thank you for being here. It shows enormous support. Please contact me at JRDevoll@aol.com with any suggestions on how to increase membership, outreach and other new ideas.

Motion made and seconded to adjourn meeting at 1:10 pm PDT.

Respectfully Submitted,

Jeffrey Sventek, M.S., CASp, Executive Director
J. Karen Klingenger, M.D., M.P.H., M.S., Secretary

FAA AME Seminars

These are offered by the FAA AME Program office.

Aug. 5-7, 2022 Washington, DC Refresher

Sept. 22-24, 2022 Albuquerque, NM CAMA

Oct. 24-28, 2022 Oklahoma City, OK Basic

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

Future AsMA Annual Scientific Meetings

May 21-25, 2023; Sheraton New Orleans Hotel, LA

May 5-9, 2024; Hyatt Regency Chicago, Chicago, IL

June 1-6, 2025; Hyatt Regency Atlanta, Atlanta, GA

May 17-21, 2026; Sheraton Downtown, Denver, CO

ANNUAL LECTURES

Both AsMA and UHMS provided their annual lectures in plenary sessions throughout the week.



Top: **67th Louis H. Bauer Lecture**--Dr. Michael A. Berry (center) delivered the lecture. Representing the sponsor, KBR, is Keith Kreutzberg (left) with AsMA President Jim DeVoll (right).

Center: **8th Eugen Reinartz Panel** (left to right)--Joe Dervay (moderator), Jon Clark, Jay Dean, Richard Moon, and Mike Gernhardt, were the panelists discussing pressure.

Bottom left: **Eric P. Kindwall Memorial Lecture**--Lindell Weaver, M.D., delivered the lecture, Monday, May 23.

Bottom center: **Christian J. Lambertsen Memorial Lecture**--UHMS President, Marc Robins, introduces the lecturer, Robert Sanders.

Bottom right: **56th Harry G. Armstrong Lecture**--Melchor Antunano, M.D, the lecturer, receives a memento from Bob Laurent and George Anderson of ETC, sponsors of the lecture along with James DeVoll, AsMA President.

All of the lectures can be viewed at:
<https://www.asma.org/scientificmeetings/asma-annual-scientificmeeting/proceedings>



A Reminder to Members: The online journal is now the default. Members must now pay for a paper copy. See the [February newsletter](#) or [January's AMHP](#) for more.

IAF GNF Space Conversations Series

These are free online webinars. Visit <https://www.iafas-tro.org/events/iaf-gnf-space-conversations-series/>.

MEETING PHOTO GALLERIES

For more photos from the annual meeting in Reno, please visit our Photo Gallery: <https://aeromed.smug-mug.com>. All photos by Pamela C. Day.

We're sorry

We apologize for the ongoing delays in journal production. This was due to a ransomware attack on our printer. We should be back on schedule soon!

THE SMA JM Young Investigators Award

The Space Medicine Association (SMA) Jeff Myers (JM) Young Investigators Award (YIA) is a competition intended for those making their first major efforts into Aerospace Medicine Research. To compete for this award, contestants must be making their first presentation of a scientific paper or poster at an AsMA meeting (excluding cases presented at Grand Rounds as a student resident) as well as be competing for the award the first time; they must appear as first author on the paper; and they must prepare and submit a manuscript for judging. The potential applicability of the findings to space medicine and the degree of involvement of the student in the project are major considerations. I would like to thank the members of the YIA committee: John Darwood, Lloyd Tripp, Cathy Dibiase, and Steve Guyton.

The finalists in this year's competition, selected from 164 potential contestants, are richly talented and diversified (listed later in this article). The winner of the 2022 SMA JM YIA is Anna Wojdecka. Her paper is entitled: "The Design for the Future of Health and Safety in Commercial Human Spaceflight: Towards the Human-Centered Exploration Medical Ecosystem Design Infrastructure". This new avenue of work is part of the evolution in Human Factors into design of modules and habitats now becoming more important to us as we progress in the commercialization of space travel, eventually having participants living and working in space, on the surface of the Moon, and beyond. Ms. Wojdecka completed this work during her studies in the Space Systems Graduate program at the Florida Institute of Technology. Originally from Poland, she received a Bachelors in Human Factors and Interior Architectural Design in the United Kingdom. She hopes to someday apply her skills helping to design new modules and habitats in space.

The first runner up is Victoria Tucci, BHSc. Her paper is titled "Development and Evaluation of an Evidence-Based Policy for Return to Flight Post-COVID-19 in the Royal Canadian Air Force". This could be an important tool for any illness recovery and for all flight crew in air or space. Victoria is this year's Anita Mantri Award winner and is considering medical school as her next step. The second runner up is CDR Cheryl (call sign 'Clark') Griswold from the U.S. Navy in San Diego doing work at the Naval Medical Research Unit in Dayton. Her paper is: "Effects of Voluntary Urine Retention on Cognitive Performance". Honorable Mention went to



From left to right: Dr. Mohammad Hirzallah, Dr. Andrew Lamb, Capt. Yoshiaki Inuzuki, Dr. Craig Kutz, Dr. Jeff Myers, Dr. Hugo Felix (Honorable mention), 2022 YIA winner Anna Wojdecka, Lynn Stanwyck, Dr. Goncalo Torrinha, Squadron Commander Martin Gutierrez, Abigail Santek, CDR Cheryl 'Clark' Griswold (2nd Runner-Up), and Dr. Joan Saary, standing in for 1st Runner-Up Victoria Tucci.

Hugo Felix, M.D., an Infectious Disease Resident from Lisbon, Portugal, for his paper titled "Non-Invasive Intracranial Pressure Monitoring and its Applicability in Spaceflight".

Additional Finalists include: Mohammad Hirzallah, M.D., a Neurologist at Baylor University in Houston TX; Lynn Stanwyck, a medical student from Virginia Tech on an FAA Internship; Craig Kutz, M.D., Ph.D., an Emergency Medicine trained Hyperbaric Fellow at San Diego headed for UTMB and a former AMSRO president (and winner of the 2022 SMA Resident Award); Abigail (Abby) Santek, a certified Athletic Trainer working with the Thunderbirds at Nellis AFB, NV; Squadron Commander Martin Gutierrez, M.D., a flight surgeon from the Chilean Air Force; Capt. Yoshiaki Inuzuki, M.D., a flight surgeon from the Japan Air Defense Force; Andrew Lam, M.D., a Family Medicine doctor from Fairfax, VA; and Goncalo Torrinha Alves, M.D., an Intensive Care resident at University of Minho in Portugal (and this year's SMA International Scholarship winner).

Although they had to deal with the COVID-19 pandemic challenges during their training in the recent years, the Young Investigators of 2022 demonstrated remarkable resilience, embracing new techniques for learning and problem solving while laying the foundation for the legacy of a truly amazing new generation of Aerospace Medicine scientists. Undaunted, they will surely make their mark toward the challenges of space exploration. Remember, if you want to do more than just exist, you must have a dream. Dream well and make a difference.

K. Jeffrey Myers, M.D.

In Memoriam: Silvio Finkelstein

AsMA HQ staff were deeply saddened to hear Dr. Silvio Finkelstein died recently. A native of Argentina, Dr. Finkelstein's career started when he was



inducted into the Argentine Air Force in 1955 as military service was mandatory there. Since he was already a fourth year medical student, he was assigned to the National Institute of Aviation Medicine, where medical exams for pilots were conducted. He served in the air force for 14 months.

From 1959 to 1963, he worked at the Civil Aviation Official Base doing search and rescue missions in Sikorsky S-51 helicopters (known as Dragonfly) in a time before the concept of the Mobile Army Surgical Hospital (MASH) became common knowledge. The Dragonfly was the helicopter used in the Andes through a low-altitude pass in 1960 to help Valdivia, Chile, after a major earthquake.

Dr. Finkelstein graduated from medical school in 1958, from the Aviation Medicine course at the Instituto Nacional de Medicina Aeronáutica in 1959, and then worked as a civilian flight surgeon in the Argentine Air Force until 1963. He applied to and was accepted at Ohio State University as a foreign graduate student. After obtaining a permanent visa due to the United States being involved in the

See 'Finkelstein,' p. N57

Vietnam War and needing doctors, he flew to Columbus, OH, with his wife and children. From 1963 until 1965, he worked on research and academic activities involving altitude chamber runs with patients while also earning his M.Sc. He was part of a group of investigators trying to determine cardiopulmonary tolerances to simulated altitude so they could derive guidelines for air travel. The results of this, once published, were a guide for reasonable cabin altitudes for many years.

After receiving his M.Sc. and completing 3 years of practice, Dr. Finkelstein returned to Argentina, but then came back to the United States to work for 5 years at the Lovelace Foundation for Medical Education in Albuquerque, NM, USA, on aviation, astronautics, and space medicine projects. The Foundation was where the first group of astronauts were selected and, as a Senior Staff Scientist, Dr. Finkelstein participated in the evaluation of experimental test pilots and astronauts, and research on aging effects in flying personnel. The research on aging was in response to a regulation establishing a retirement age for commercial pilots. During his work in Albuquerque, Dr. Finkelstein held a security clearance, but refused to give up his Argentine citizenship in order to get a higher level clearance.

After his work in Albuquerque, Dr. Finkelstein joined the International Civil Aviation Organization (ICAO), where he was employed developing and managing civil aviation medical programs as Chief of the Aviation Medicine Section. During this time, he was one of the passengers on a B747 in Ezeiza, Buenos Aires, when one of the engines caught fire after pushback. An evacuation was ordered and, despite one toboggan being unusable due to a puncture, all passengers were safely evacuated. Dr. Finkelstein retired from ICAO in 1996 and returned to Argentina. However, in 2006, ICAO recruited Dr. Finkelstein to be Team Leader in developing treatments and prevention for Severe Acute Respiratory Syndrome (SARS). He was also assigned to work on avian flu.

MEETINGS CALENDAR

Please check the websites of meetings listed to see updates.

Calls for Papers - Ongoing: IAF's Global Networking Forum Space Conversations Series, online. Visit <https://www.iafastro.org/events/iaf-gnf-space-conversations-series/> for more information.

HFACS Workshops: ONLINE. Workshops on the The Human Factors Analysis and Classification System (HFACS) are now available online as well as in-person. For more information, please visit <https://www.enrole.com/erau/jsp/course.jsp?categoryId=&courseId=HFAC> for in-person and <https://www.enrole.com/erau/jsp/course.jsp?categoryId=558570F8&courseId=OHFA> for online.

Sept. 28-Oct. 21, 2022; Advanced Aeromedical Examiners Course; Oslo, Norway. This course is designed to meet EASA's requirements. For more information, please see the flyer or visit ESAM or the ESAM Academy.

Dr. Finkelstein was President of the International Academy of Aviation and Space Medicine and was fascinated with the discipline of aerospace medicine his whole life. He wrote the introduction to the third edition of *Fundamentals of Aerospace Medicine*. He was a Fellow of the Aerospace Medical Association (AsMA), was a Vice President from 1976–1977, was the 1993 Bauer Lecturer, and was a recipient of AsMA's John A. Tamisiea, Harry G. Moseley, Eric Liljencrantz, and Won Chuel Kay Awards. His professional assignments allowed him to travel to Africa, Asia, Europe, and the United States. During a trip to Budapest, his wife bought two still life paintings, for which they got export certificates so they could take them out of the country. The Director of Civil Aviation took them to the airport himself in his official car, with the siren on. They were pleasantly surprised when the Exit Customs Officers allowed them through without any problems. He was also involved with answering questions about Dr. Stanley Mohler, who had nominated Dr. Harry Armstrong for an award, and about Dr. Armstrong from ICAO's President, which resulted in Dr. Armstrong being given the Edward Warner Award in 1981.

New Members

AsMA welcomes 21 new members in August.

- Bansal, Ananya; Old Westbury, NY, United States
- Barott, Nathan; Syracuse, NY, United States
- Blednova, Darya; San Francisco, CA, United States
- Colls, Noel; Fairborn, OH, United States
- Geisler, Brit; Enterprise, AL, United States
- Haley, Alexander; Dayton, OH, United States
- Harris, N. Stuart; Milton, MA, United States
- Hedburg, Jack; Columbus, OH, United States
- Herd, Van; Austin, TX, United States
- Khan, Ahsan; Atlanta, GA, United States
- Luke, Erica; APO, AE, United States
- Morrison, Zachary; Pensacola, FL, United States
- Oommen, Bindhu; Dallas, TX, United States
- Panjikaran, Lloyd; Melrose Park, IL, United States
- Pennington, Allyson; Charlottesville, VA, United States
- Penny, Christine; Plymouth, Devon, United Kingdom
- Pinti, Ryan; Grand Rapids, MI, United States
- Rock, Christopher; Pensacola, FL, United States
- Silverman, Warren; Voorheesville, NY, United States
- Snyder, Erin; San Diego, CA, United States
- Stricklin, Robin; Woodland, CA, United States

AsMA welcomes back three members:

- Alani, Sabrina; Ottawa, Ontario, Canada
- Amezcua, Octavio; Mexico City, Mexico
- Pack, Steven; Odessa, FL, USA



FAA News: Airport Funding

The U.S. Department of Transportation's Federal Aviation Administration (FAA) will award nearly \$1 billion from President Biden's Bipartisan Infrastructure Law funding to 85 airports across the country to improve terminals of all sizes. The grants expand capacity at our nation's airport terminals, increase energy efficiency, promote competition and provide greater accessibility for individuals with disabilities. Two grants will also be awarded to build new air traffic control towers.

Historically, the FAA has invested in runways, traffic-control towers, and back-of-house infrastructure. Thanks to the Bipartisan Infrastructure Law, there is dedicated funding to support modernizing airport terminals across the country. Of the grants, 70 contain an element that will expand terminal capacity. This funding is from the Airport Terminal Program, one of three aviation programs created by the Bipartisan Infrastructure Law. The law provides \$1 billion annually for 5 years for Airport Terminal grants.

The entire release can be read at <https://www.faa.gov/newsroom/biden-administration-announces-nearly-1b-bipartisan-infrastructure-law-funding-improving>.

'Value of Space' Report Released

A new report that launched at the end of June asked 20,000 people worldwide how space makes them feel, what they think goes on 'up there', and what they feel activities in space – such as exploration, communications, and space tourism – bring to life our lives here on Earth.

The report from Inmarsat, 'What on Earth is the value of space?', found that: a majority of people are unaware of ground-breaking things happening in space; 97% of people see space as a threat, with space junk and pollution the biggest perceived threats; 1 in 9 people are 'terrified' of what could happen in space—just 1 in 3 are excited or hopeful; younger generations associate space more with science-fiction than science and they're considerably more concerned and nervous about the impact of space on our lives; however, older generations who grew up during the Space Age are much more hopeful and optimistic about what space brings to life on Earth; and Gen-Z is twice as likely to associate space with aliens, Star Wars and billionaires like Elon Musk and Jeff Bezos than older generations.

To read the report, please visit <https://www.inmarsat.com/en/insights/corporate/2022/value-of-space.html>.

NEWS OF CORPORATE MEMBERS

ALPA Opposes Proposed Increase in Pilot Retirement Age

At their 130th Regular Executive Board meeting of the Air Line Pilots Association, Int'l (ALPA), pilot leaders adopted a resolution opposing any attempts to increase the retirement age for professional airline pilots. The Federal Aviation Administration (FAA), at the direction of Congress with the 2007 Fair Treatment for Experienced Pilots Act (P.L. 110-135) and the International Civil Aviation Organization (ICAO), currently mandate that airline pilots in multi-crew operations must retire at age 65. Increasing the retirement age will have significant unintended consequences and will displace pilots. Those airline pilots over 65 will be forced to leave the most desirable international routes to bid for domestic ones because the international age limit set by ICAO is 65. When age 65+ airline pilots return to domestic-only flying, they will then displace more junior pilots and both cohorts may require training on different aircraft, adding to the training costs of air carriers. Furthermore, most regional airline pilots leave the regional industry long before age 65 for more lucrative jobs at mainline or low-cost carriers or other opportunities. Therefore, the pool of domestic-service pilots will not increase appreciably without additional training costs or disruptions. However, many U.S. airlines are claiming they cannot hire pilots fast enough as the aviation industry recovers from the COVID-19 pandemic and air travel demand rebounds. ALPA is concerned that some airlines are trying to use this crisis to weaken safety regulations that make certain pilots are properly qualified and trained.

—Please see <http://www.alpa.org/news-and-events/newsroom/2022-05-19-alpa-opposes-increased-retirement-age-for-the-complete-press-release>.

MedAire's App Deployed by WestJet

WestJet has extended its partnership with MedAire. They are the first airline in North America to use the MedAire app. WestJet cabin personnel can now connect with MedLink doctors in multiple ways during a medical emergency. Using a combination of technology, expertise, AI assistance, and text-based communication, WestJet cabin personnel have access to the world's leading emergency medical physicians, making sure unwell passengers receive timely, accurate medical support. MedAire assists most of the world's airlines with more than 200 in-flight medical issues daily and has managed hundreds of thousands of in-flight medical events over the last 35+ years. The MedAire app utilizes the extensive knowledge of medical events that occur onboard and complements existing MedLink medical advisory services.

—Please see <https://www.chathamdailynews.ca/globe-newswire/westjet-deploys-medaire-in-flight-app-connecting-flight-crew-with-doctors-for-emergency-life-saving-assistance> to read the entire release.

Mayo Clinic Named #1 Hospital in Arizona

For a 10th year, Mayo Clinic Hospital in Arizona has been ranked No.1 in Arizona and the Phoenix metro area as part of *U.S. News & World Report's* "Best Hospitals" rankings. In addition, for a sixth consecutive year, Mayo Clinic in Arizona was recognized on the "Best Hospitals Honor Roll" which recognizes the top 20 hospitals in the nation. These results were published July 26 on the *U.S. News & World Report* website. Hospitals included in the annual rankings are part of an elite group recognized for breadth of excellence, according

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to *U.S. News & World Report*. Mayo Clinic in Arizona received a high-performing rating in 19 of 20 procedures and conditions assessed by *U.S. News & World Report*. In addition, Mayo Clinic in Arizona ranked nationally in 10 specialties. Data for 5,000 medical centers was analyzed to determine the “Best Hospital” rankings.

—Please visit <https://newsnetwork.mayoclinic.org/discussion/a-decade-of-excellence-mayo-clinic-named-no-1-hospital-in-arizona-for-a-10th-year-on-u-s-news-world-reports-best-hospitals-rankings/> for the complete press release.

AOPA Provides EAGLE Update

At the EAA AirVenture Oshkosh in Wisconsin in late July, AOPA President Mark Baker was joined by fellow general aviation (GA) association executives and senior FAA leaders to provide an update on the GA industry’s transition to unleaded fuel. The session provided an opportunity for the leaders of the public-private Eliminate Aviation Gasoline Lead Emissions (EAGLE) initiative to update attendees of EAA AirVenture on the progress toward eliminating all lead from aviation fuel by 2030. Baker, co-chair of EAGLE, was joined on stage by co-chair Lirio Liu, executive director of the FAA’s Aircraft Certification Service, and other members of the EAGLE Executive Committee: Jack Pelton, chairman and CEO of the Experimental Aircraft Association; Pete Bunce, president and CEO of the General Aviation Manufacturers Association; Ed Bolen, president and CEO of the National Business Aviation Association; Karen Huggard, vice president of government affairs of the National Air Transportation Association (representing NATA President Tim Obitts); and Jim Viola, president and CEO of Helicopter Association International. Several questions were indicative of a perception among part of the GA community that EAGLE, industry, and government are ignoring candidate fuels in the supplemental type certificate process, namely from General Aviation Modifications Inc. and Swift Fuels. Panelists made it clear that EAGLE supports both the Piston Aviation Fuels Initiative and STC paths, and that the bottom-line goal is to find the drop-in fuel that works for the entire fleet of 200,000-plus piston GA aircraft. The meeting was the third stakeholder update session since EAGLE was formally introduced by former FAA Administrator Steve Dickson in February.

—Please visit <https://www.aopa.org/news-and-media/all-news/2022/july/26/ga-faa-leaders-provide-eagle-update> to read more about this.

NIOSH Announces New Resource for Temp Workers

The future of work brings new challenges to occupational safety and health, including how to best protect and promote the well-being of all temporary workers, including those in higher hazard industries. Temporary workers are those who are paid by a staffing company and assigned to work for a host employer company, including both short- and long-term assignments. The National Institute for Occupational Safety and Health (NIOSH), along with several partners, has recently released a set of new best practices to better protect temporary workers on the job. The new document, *Protecting*

Temporary Workers: Best Practices for Host Employers, builds on resources developed under the Occupational Safety and Health Administration (OSHA) Temporary Worker Initiative, launched in 2013, by providing host employers with detailed best practices organized into three areas: 1) how to evaluate and address workplace safety and health in a written contract; 2) training for temporary workers and their work-site supervisors; and 3) injury and illness reporting, response, and recordkeeping. The best practices in this new resource are applicable across industries and occupations. The document also includes real-life scenarios of how host employers might implement these best practices, as well as checklists that can be printed or completed electronically. Additionally, staffing companies can access a complementary slide deck to educate their host employer clients about these best practices.

—Please visit <https://www.cdc.gov/niosh/updates/upd-07-18-22.html> for more about this.

KBR Employees’ Volunteer Work Makes an Impact

KBR believes in doing what’s right for the planet, their people, and the communities where they live and work. Volunteer opportunities are always emerging as a result of KBR’s culture of commitment and giving back. Earlier this year, KBR’s Singapore office became actively engaged with a local social enterprise called Project Dignity, whose mission is “to build and return dignity to the disadvantaged and disabled through vocation with a passion.” KBR, in collaboration with client Siccar Point Energy (SPE), has sponsored two differently abled individuals and spent numerous hours volunteering with the organization. In April, more than 30 KBR volunteers rolled up their sleeves to support Rebuilding Together, an organization that provides free home repairs to low-income families in Howard County, MD. As a part of their commitment to community engagement, KBR employees have been participating with the local Maryland Howard County Rebuilding Together program for 12 years. KBR’s team in North Charleston, NC, hosted a virtual food drive that provided over 12,250 meals this summer. The virtual food drive provided work-from-home employees and in-office employees a chance to give back without having to bring in food items to the office. In June, KBR employees across the United States took part in three games of virtual bingo to raise money for those affected by the tragedy at Robb Elementary School in Uvalde, TX. Over 50 KBR employees, their friends and family joined to play and raise money for this worthy cause. The fundraiser was a success, with over \$5,300 raised during the event which was given directly to the Robb School Memorial Fund. These are just a few examples.

—Please see <https://www.kbr.com/en/insights-news/stories/kbrs-global-impact-starts-community-level> for the complete press release.

Exhibitor Photo Gallery Available

A photo gallery of our exhibitors this past May in Reno is available at <https://aeromed.smugmug.com/AsMA-2022-Annual-Meeting-Exhibitors/>.