



Ever Upward: August 2023

Dervay Installed as AsMA President; Orford Is President-Elect

Joseph P. Dervay, M.D., M.P.H., MMS, FACEP, FAsMA, FUHMS, was installed as President of AsMA during the Annual Business Meeting, held May 23, 2023 at the Sheraton



New Orleans Hotel in New Orleans, LA. He 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*. He 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. He has served as Crew Surgeon for 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. After 35 years of active and Reserve service with numerous Navy and Marine Corps units worldwide, he retired with the Navy rank of Captain.

Dr. Dervay has been a member of AsMA since 1985 and is a Fellow. 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. A more comprehensive biography can be found in the August 2022 issue of *Aerospace Medicine and Human Performance* [AMHP 2022; 93(8):654] or in the August 2022 newsletter (p. N44).

Robert Orford, M.D., CM, M.S., M.P.H., was elected as President-Elect of AsMA during the Annual Business Meeting on May 23, 2023. He will be installed as President next year. Dr. Orford earned a B.Sc. at McGill University in Montreal, Quebec, Canada, in 1968. He was awarded his M.D. degree, also from McGill University, in 1971. He received his M.S. in Medicine from the University of Minnesota, Mayo Graduate School of Medicine in Rochester, MN, in 1975, and his M.P.H. from the University of Washington in Seattle in 1976. He served an internship from 1971 to 1972 at St. Joseph's Hospital in London, Ontario, Canada, held a Fellowship in Internal Medicine at the Mayo Graduate School of



Medicine from 1972–1975, and served a residency in Preventive Medicine at the University of Washington from 1975–1976.

In 1976, Dr. Orford accepted a position as Medical Officer at the Sarnia Division of Dow Chemical of Canada in Ontario. He left that position in 1977 to become Senior Medical Consultant at the Medical Service Branch of the Occupational Health and Safety Division of Alberta Labour in Edmonton, where he served until 1979. He then took a position as Director of the Medical Services Branch of Alberta Workers' Health, Safety and Compensation, also in Edmonton, where he served as Executive Director of Occupational Health Services from 1980–1984. In 1985, he became Deputy Minister of the Community Health Division of Alberta Social Services and Community Health, and then in 1986 the Deputy Minister of Community and Occupational Health. In 1988, he served as Director of Occupational Health Services for the University of Alberta Hospitals in Edmonton, and then, in 1989, became Special Clinical Fellow at the Mayo Clinic in Rochester, MN. He is currently Consultant Physician, Mayo Clinic, Scottsdale, Arizona, and Mayo Clinic Healthcare in Partnership with Oxford University Clinic, London, UK, an Assistant Professor at the Mayo Clinic of Medicine, an FAA Aviation Medical Examiner, and an Associate Professor at the University of Texas Medical Branch in Galveston.

Dr. Orford is a Fellow of the Royal College of Physicians and Surgeons of Canada, a Fellow and past Director of the Alberta Occupational Health Society, and a member of the Canadian Occupational Health Society, the American Occupational Health Society, the Occupational Medical Association of Alberta, the Occupational Medical Association of Canada, the Canadian Public Health Association, the American Public Health Association, the Canadian Society of Aviation Medicine, and the Canadian Medical Association. He was awarded a National Health Fellowship from Canada from 1975–1976 and is licensed by the state of Minnesota, the State of Washington, and the province of Alberta. He is a Diplomate of the National Board of Medical Examiners. He is a member of and was President of the Airline Medical Directors Association. He is also a Fellow of the Aerospace Medical Association, serves on its Scientific Program Committee, and was Parliamentarian on AsMA's Council. He is a recipient of AsMA's Boothby-Edwards and Won Chuel Kay Awards.

Other elected officials are: Vice Presidents: Anthony Wagstaff, M.B.Ch.B., D.Av.Med., Susan Fondy, M.D., M.P.H., and Rowena Christiansen, M.Emerg.Health., MBA, M.B.B.S. (serving remaining 1 year of Dr. Orford's VP term). **Members-at-Large are:** Wendell Becton, M.D. (serving remaining 1 year of Dr. Christiansen's term), Winton Laslie, M.D., M.P.H. (serving remaining 2 years of Dr. Wagstaff's term), Denise Baisden, M.D., Diego Garcia, M.D., Kathy Hughes, M.D., M.P.H., and Daniel Van Syoc, M.D., M.P.H.

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

Aerospace Medical Association Honors Night Awards Sheraton New Orleans Hotel, New Orleans, LA, May 25, 2023

Dr. Susan Northrup, President of the Aerospace Medical Association, presented 18 awards to outstanding members during the Honors Night ceremonies at the 93rd Annual AsMA Scientific Meeting, May 25, 2023, at the Sheraton New Orleans Hotel, New Orleans, LA. Eric Olins, M.D., Chair of the Awards Committee, read the citations. The names of the awards' sponsors and representatives, when present, are printed in parentheses.

While the Boothby-Edwards Award was presented, Dr. Simon May, the winner, was unable to be there.



Susan Northrup
2022-2023 AsMA President

All photos by Pamela C. Day. A photo gallery is available at:
<https://aeromed.smugmug.com/Honors-Night-AsMA-93rd-Scientific-Meeting/>.



2023 LOUIS H. BAUER FOUNDER'S AWARD
Nicholas D. C. Green, OBE, MBBS, Ph.D., D.Av.Med.,
FRAeS, FAsMA, RAF
(Gary Toups, Mayo Clinic)



2023 JOHN ERNSTING AWARD
Melchor J. Antunano, M.D., M.S.
(George Anderson, Environmental Tectonics Corp.)



2023 KENT K. GILLINGHAM AWARD
Richard V. Folga, CAp, FAsMA, FAsHFA
(Erich Roedig, AMST)



2023 WALTER AND SYLVIA GOLDENRATH AWARD
Daniel A. Roberts, Col., USAF
(Kim Broadwell, AsMA Foundation)



2023 JOHN D. HASTINGS AWARD
Roger R. Hesselbrock, B.Sc., M.D., Col.(Ret.), USAF
(David Schall, Civil Aviation Medical Association)



2023 WON CHUEL KAY AWARD
Ansa Jordaan, M.D.
(Euntaek Lee, Korean Aerospace Medical Association)



2023 JOE KERWIN AWARD
Ashot Sargsyan, M.D., RDMS, RVT
(Keith Kreutzberg, KBR)



2023 MARY T. KLINKER AWARD
Elena Schlenker, Lt. Col. (Ret.), USA, RN, MSHS



2023 SIDNEY D. LEVERETT
ENVIRONMENTAL SCIENCE AWARD
**Angus Rupert, M.D., Ph.D., CAPT(Ret.), MC,
USN, FAsMA**
(Bob Laurent, Environmental Tectonics Corporation)



2023 ERIC LILJENCRANTZ AWARD
Kris Lehnhardt, M.D., FRCPC, FACEP, FAsMA
(Jeff Sventek for Aerospace Medical, PLC)



2023 THEODORE C. LYSTER AWARD
Daniel L. Van Syoc, M.D., M.P.H., FAsMA
(Jennifer Benincasa, Army Aviation Medical Association)



2023 MARIE MARVINGT AWARD
David K. McKenas, M.D., M.P.H.
(René Germa, La Société Francophone de Médecine Aérospatiale)



2023 HARRY G. MOSELEY AWARD
Raymond E. King, Psy.D., J.D., FAsMA, & Chris M. Front, Psy.D., FAsMA
(Chris Bates, International Association of Military Flight Surgeon Pilots; Dr. Front was unable to be there)



2023 JOHN PAUL STAPP AWARD
Swee Weng “Buzzlite” Fan, MBBS, DAvMed, MMed, M.Sc., FAsMA, CFII
(George Anderson, Environmental Tectonics Corp.)



2023 JOHN A. TAMISIEA AWARD
Christopher Flynn, M.D.
(David Schall, Civil Aviation Medical Association)



2023 ARNOLD D. TUTTLE AWARD
Elizabeth Damato, BSN, MSN, Ph.D., & Michael Decker, BSN, Ph.D.
(Keith Kreutzberg, KBR)



2023 JULIAN E. WARD AWARD
Caleb S. James, D.O., M.P.H., Maj., USAF
 (Sanjay Gogate, Society of USAF Flight Surgeons)



President's Citation 2023: Kris Belland, D.O., M.P.H., MBA, received the citation for his exceptional work on behalf of AsMA with the International Civil Aviation Organization's Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation.



Editor-in-Chief Retiring: Fred Bonato, Ph.D., announced he will be stepping down at the end of 2023. Dr. Northrup presented him with a clock in recognition of his years of service.



Passing the Gavel: Dr. Susan Northrup (left), outgoing President, passes the gavel to Dr. Joe Dervay (right), incoming President.



Past President's Pin: Terry Crane, a good friend of Susan Northrup, the outgoing President, pins on the Past President's pin.



President's Gift: Joe Dervay presents the Past President's gift to Susan Northrup.

Abridged Minutes of the Aerospace Medical Association 93rd Annual Business Meeting

Tuesday, May 23, 2023

Sheraton New Orleans Hotel, New Orleans, LA



Northrup



Sventek

Call to Order (Susan Northrup): A quorum of more than 100 members in attendance was met and the meeting started at 12:00 pm CDT on Tuesday May 24, 2023.

In Memoriam (Northrup): Attendees paused to reflect and remember those members of AsMA who passed away since the last AsMA conference in 2022.

Recognition Of Past Presidents (Northrup): Past presidents were asked to rise and be acknowledged.

Report of the President (Northrup): It has been an amazing year. It has been a challenging year. You will hear the reports from all of the vice presidents and the treasurer that indicate we are back and financially sound. We are being asked our opinions – our opinions matter. Some organizations claimed to know what we were going to do before we did it and used our name [AsMA] in various missives. I would see that in my civilian position and would remark “I didn’t approve of that!” As an organization we carry weight. Please see my full report to the AsMA Council on 21 May.

Report of the Executive Director (Sventek): Madame President, Officers, and Members of the Association, it is my pleasure to report that this year was extremely active and very successful. I especially want to recognize all the volunteers that helped move our Association forward. Thank you for your continued strong support for the Aeromedical Association. I would also like to recognize our headquarters office staff and our journal independent contractors. They work hard every day to provide a high quality Scientific Journal as well as outstanding customer service and administrative support to our members. Pam Day retired from our association in early 2023 after serving AsMA for over 42 years. Dr. Fred Bonato, AsMA Journal Editor in Chief and I selected Rachel Trigg, Pam’s long-time assistant, as the new Managing Editor of our Journal. Rachel’s selection generated a need to hire a new assistant to the managing editor and we posted the advertisement through the Indeed Web site, receiving twelve applications. Six were selected for interviews. From those interviews we selected Stella Sanchez to serve as our Assistant Managing Editor, who we are pleased accepted our offer to come work with us. [All the staff stood to be recognized.]

AsMA finished 2022 in good financial shape. We were able to meet all 2022 obligations without pulling money from the AsMA investments. The Joint Annual Scientific Meeting with the UHMS in Reno was very well attended and excess rev-

enue from that meeting was \$591,570. The UHMS’ share of the excess revenue was \$95,595 based upon their percentage of attendees. That left AsMA with excess revenue from Reno of \$495,975.

AsMA also collaborated with the International Academy of Aviation and Space Medicine (Academy), the European Society of Aerospace Medicine (ESAM), and the Francophone Society of Aerospace Medicine (SOFRAMAS) in hosting the 1st International Conference in Aerospace Medicine (ICAM), that was conducted September 22-24, 2022 in Paris, France. AsMA was responsible for the registration processes and we shared any excess revenue from the event. The ICAM was designed for a break-even goal of 400 registrants. The final registration total was 845. The ICAM finished with net excess revenue of €245301,10 or \$260,019.17. This net excess revenue was distributed to each of the four organizations responsible for the ICAM in the following amounts: SOFRAMAS: €63681,33 (\$67,502.21); IAASM: €59581,95 (\$63,156.87); ESAM: €56578,91 (\$59,973.68); AsMA: €65458,91 (\$69,386.44).

The differences in the amounts distributed included organization-specific liabilities incurred during the ICAM. All organizations agreed to the amounts distributed. The ICAM 2022 was a big educational and financial success!

AsMA, the International Academy of Aviation and Space Medicine (IAASM), the European Society of Aerospace Medicine (ESAM), and the Portuguese Society of Aerospace Medicine (SMAPor) have started meeting to prepare for the 2024 International Congress in Aerospace Medicine (ICAM 2024) in Lisbon, Portugal. I would encourage you to put that on your calendars.

AsMA recently completed the 2022 annual financial audit. The published audit report provides the auditors’ opinion:

“In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Aerospace Medical Association as of December 31, 2022 and 2021, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.”

AsMA membership has stabilized between 2,000 and 2,100 paid up members. As of today, the AsMA membership is 2,104. The AsMA Council voted to approve the Allied Membership as a permanent membership category as of the Sunday Council Meeting. We will be updating the By Laws and all the membership literature to reflect that in the future. This Allied Membership is designed to expand the AsMA membership to residents of countries with developing economies and low incomes.

For this Scientific meeting in New Orleans, as of this morning, the total registration is 1622 registrants. This represents an increase of 125 attendees or 8.4% increase from the registration at the same time in Reno last year. Revenues from these meetings represent a very large portion of our annual operating budget and we thank all of you for participating in our onsite, in person meetings.

Finally, last July 2022 was the first month where the **electronic version** of the *Aerospace Medicine and Human Performance* (AMHP) Journal became the default member benefit. This change was approved by the AsMA Council in November 2021. All AsMA members now have access to the electronic journal via the AsMA Members Only section of the AsMA website as part of their membership. If they wish to receive the AMHP journal in print, they must now purchase

See ‘Business Meeting,’ p. N55

a subscription to the print journal. A 1-year subscription to the print AMHP journal for an AsMA member is currently set at \$100.

The July invoice for the printing and mailing of the AMHP journal was \$1,599.84. The average cost to print and mail the January, February, April, and May issues of the AMHP journal was \$6,028.60/month. Moving to the electronic journal as the default member benefit appears to save AsMA about \$5,000/month or \$60,000/year.

A comparison of 2021 vs 2022 costs for journal Print/Mail/Handling shows a cost of \$127,021.14 in 2021 vs. a cost of \$87,185.80 in 2022. This is an overall savings of \$39,835.34 year to year. However, this savings was realized in only the last 6 months of 2022. That is an average monthly savings of \$6,639.22 and suggests an annual savings of approximately \$75,000 in Print/Mail/Handling expenses for 2023 and beyond.

Report of the AsMA Foundation Chair (Kim Broadwell): Dr. Broadwell thanked the members of AsMA, noting that it is 'your AsMA Foundation' and the work of the Foundation could not continue without the members' support. He expressed the hope that AsMA members who had donated, had received their purple donor ribbons. "You should put it on and wear it. It will make you look more important." He pointed out the AsMA Foundation funds are doing very well and have weathered the crisis in the stock market. The Foundation has been able to meet all of the award and scheduled scholarship commitments. The endowments, thanks to the conservative management, have recovered from the stock market crater of last year.

We have done good things for 16 years as a Foundation, but the board of directors would like to do more, to take it to the next level. Dr. Broadwell presented the exciting new Foundation Initiative to empower the next generation of aerospace medicine [specialists] to solve the 'Challenge of Deep Space Exploration.' We are going to have two major foci of our campaign, first to increase what is available for post graduate education of aerospace medicine specialists. Second to provide seed money for young investigators to take their experiments to commercial space flight companies or to NASA and ask them to 'fly' their projects. 'The Need for Speed' – to go farther faster together with an endowment goal of 5 million dollars by the AsMA Centennial in 2029.

GOVERNANCE (Joe Dervay)

By Laws Committee: There are no new Bylaw or Policy and Procedures changes reviewed at council.

Scientific Program Committee: Their report was given at the opening ceremony by Dr. Ian Mollan.

Nominating Committee Report (Chuck DeJohn): The Nominating Committee meets several times per year and does a tremendous job. The President-Elect is Robert Orford; Vice Presidents: Susan Fondy (2 yr), Anthony Wagstaff (2 yr), Rowena Christiansen (1 yr to complete Orford's term); Secretary: J. Karen Klingenberger; Members-at Large: Kathy Hughes, Dan Van Syoc, Denise Baisden, Diego Garcia, Winton Laslie (2 yr to complete Wagstaff's term), Wendell Becton (1 yr to complete Christiansen's term). There were no further nominations and no significant discussion. The vote was unanimous in approving the slate with no nays or abstentions.

AsMA Treasurer's report (Casey Pruett): The Net Income for 2022 stands at -\$14,708 (compared to budgeted \$41,968).

However, if there had not been such a negative return on the investment accounts (-\$122,305 unrealized loss on investments), Net Income would have been \$107,597. AsMA has recorded the highest ever total revenue to date, \$1,919,259! AsMA has recorded the highest unrealized loss on its investments to date, -\$122,305! All meeting costs for Reno and Paris have been accounted for (primary revenue generator) and membership remains on target as the secondary revenue generator, with journal revenue in 3rd place. The extraordinary "extra" income from the ICAM was recorded separately, only to preserve the traditional "AsMA annual meeting" cost pools to preserve for continued predictive abilities and traditional tracking. The Net Income Loss is driven by \$85K Revenue from Membership and Journal compared to \$167K Expenses from Management and Journal. Reno 2022 is still the largest revenue generator AsMA annual meeting to date, in part due to combined with UHMS. ICAM Paris 2022 generated a healthy additional net operating income of \$260K that was shared across the 4 supporting organizations, resulting in approximately an additional \$69K Net Operating Income for AsMA. Membership is stable and remains the second largest contributor to AsMA revenues at \$68K. By the end of the year, the journal slightly over performed in revenue including open access and classified advertising that were better than expected. The printing costs dropped substantially from an estimated \$130K down to \$87K. Savings should increase with the cessation of the print journal. Slightly higher royalties and archive fees contributed to the expected subscription income for the journal revenue, while printing costs and salaries comprise the highest portion of journal expenses. In 2023 thus far, UBS has seen a positive 2.1%. The goal remains a recommendation to replenish the reserves back to the \$1M level which the expectation to happen within the next 2-3 years. A video conference interview with Casey Pruett (AsMA Treasurer) for the annual fraud review took place with zero findings. 2023 is starting in a positive direction! The goal remains to have \$1M in the Investment Portfolio to be used for down years and unanticipated expenses. The recommendation is to reassess in fall 2023 after New Orleans results start to finalize.

Recommendations: Reassess AsMA financial position after New Orleans and perhaps start replenishing the investment portfolio to regain our \$1M posture (2-4 years?). Use the lessons learned from 2020-2022 and increase revenue with a potential virtual convention, meetings, and workshops, membership incentives, fund raisers. We will also continue to leverage the cost saving efforts from the membership and journal committees.

EDUCATION AND RESEARCH (Warren Silberman)

Science & Technology (S&T) Committee: Chairman is Ryan Mayes. The committee is being reinvigorated and will be producing articles about different technologies. Planetary protection monograph was developed by students with Jeff Myers mentorship.

INTERNATIONAL SERVICES (Bob Orford)

Allied Membership in AsMA is offered to International Members from low and middle income countries (total of 90 countries as determined by the United Nations) for an annual fee of \$50.00 with free registration to the Annual Scientific Meeting. This program was discussed and it was decided it would be reasonable to extend this program indefinitely. The International Congress on Aviation and Space Medicine

See 'Business Meeting,' p. N56

From 'Business Meeting,' p. N55

(ICASM) will meet in Abu Dhabi this fall. ICASM will alternate every other year with the International Conference in Aerospace Medicine (ICAM). ICAM will be held in Lisbon Portugal from the 3-5th of October in 2024.

REPRESENTATION AND ADVOCACY (Northrup for Barry Shender)

Resolution 2022 – 01: Entitled 'Importance of Accredited Training and Board Certification in Aerospace Medicine for the growing Commercial Space Industry', this resolution was approved by the AsMA Council for posting.

Thank you for donating to the Foundation.

The Communications Committee should be acknowledged for elevating our presence in the online world.

Unfinished Business: None

New Business: None

Motion made and seconded to adjourn meeting at 12:53 CDT.

Jeffrey Sventek, MS, CAsP, Executive Director
J. Karen Klingenberg, MD, MS, MPH, Secretary



Ansa Jordan, M.B.Ch.B., B.Sc. (Hons.) Aerospace Medicine, DOMH (left), receives a memento from AsMA President Susan Northrup (right) for presenting the 9th Reinartz Lecture.

Annual Lectures



Chris Rocheleau, B.A., MPA (center), receives a memento from Keith Kreutzberg (right), representing the sponsor, KBR, for giving the 68th Louis H. Bauer Lecture as Susan Northrup, 2022-2023 AsMA President, looks on.



This year, the 57th Harry G. Armstrong Lecture was given by a pair of students who competed in the Greater New Orleans Science and Engineering Fair. Aashni Shah (center left) and Susanna Chiruguru (center right) receive mementos for their participation from Bob Laurent (right), representing the sponsor, ETC, while AsMA President Susan Northrup (left) watches. Below is the slide showing the titles of each student's presentation.

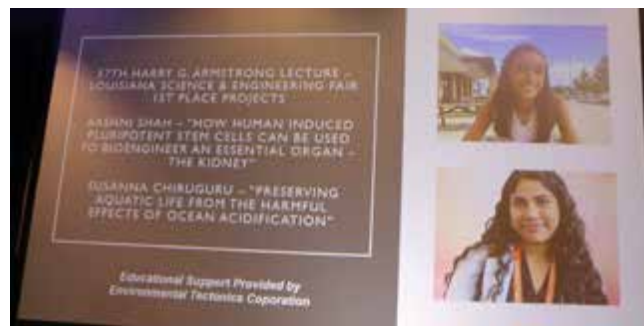


The **Aerospace Medical Foundation** is working to accelerate its efforts by empowering the next generation of Aerospace Medicine scientists

who will take humans to deep space. In order to achieve these objectives, they are setting a goal in the "Need for Speed" campaign of \$5 million by AsMA's 100th Anniversary! Donations can be in cash or stock by credit card or PayPal through the AsMAFoundation.org website.

AsMA Members: consider joining the Heritage Society and include the Foundation in your estate planning.

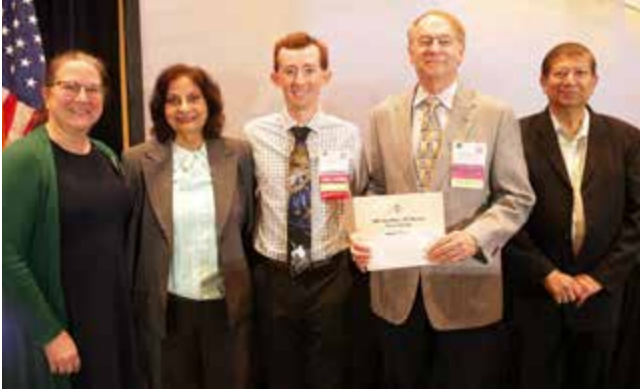
Support the Foundation!



Reminder to Members

A year ago, the journal became electronic only as the member benefit. Members can purchase a print subscription for \$100/year.

Scholarship Winners



The Anita Mantri, Ph.D., Memorial Scholarship was awarded to Samuel Stephenson (center) by Dr. Kim Broadwell (to the right), representing the AsMA Foundation, along with Dr. and Mrs. Vish Mantri (far right and left of Samuel, respectively) and Dr. Northrup (far left), AsMA President.



The Stanley R. Mohler, M.D., Aerospace Medicine Endowed Scholarship was awarded to Cyril Mani (center) by Kim Broadwell (right), representing the AsMA Foundation, along with Dr. Northrup (left).



The Jeffrey R. Davis, M.D., Aerospace Medicine Endowed Scholarship was awarded to Alexander Suh, who was unable to be there to accept the certificate from Drs. Jeffrey Davis (left) and Susan Northrup (right).

In the photo to the right, the Aerospace Medicine Students and Residents Organization's (AMSRO's) Trailblazer Scholarship is awarded to Anaelle Ndoye (left), who received her certificate from Dr. Northrup (right). This scholarship, formerly the Diversity Scholarship, is for under-represented or under-served minorities who possess unique qualities, experiences, and perspectives.



The AsMA International Scholarship was awarded to Sophie Levasseur (right) and she received the certificate from Dr. Northrup (left).



Future AsMA Annual Scientific Meetings

May 5-9, 2024; Hyatt Regency Chicago, Chicago, IL
 June 1-6, 2025; Hyatt Regency Atlanta, Atlanta, GA
 May 17-21, 2026; Sheraton Denver Downtown, Denver, CO

FAA AME Seminars

These are offered by the FAA AME Program office.

Aug. 4-6, 2023 Washington, DC Refresher

Oct. 5-7, 2023 Omaha, NE CAMA

Oct. 23-27, 2023 Oklahoma City, OK Basic

Nov. 17-19, 2023 Jacksonville, FL Refresher

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

Sunday Welcome Reception



International Reception



President's Reception



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Photo Galleries Available

Photo galleries from the 93rd Annual Scientific Meeting are available at <https://aeromed.smugmug.com/>. Photos by Pam Day.

Read Current News Online!

Visit the AsMA & Industry News to see what's new! Members: log in on the home page to read Member News.

RAM Bowl

This year's RAM Bowl was held Wednesday, May 24.

Top left: Al Parmet asked the questions as MC.

Top middle & right: Walt Dalitsch and Mary Cimrmanic were the referees for the competition.

Bottom left: From left to right, Rahul Suresh, Rebecca Blue, Joanna Nelms, Alex Garbino, and R. Allen Hoffman were the judges.

Bottom right: The winning team was the Glove Vanes, made up of Catherine Blasser, U.S. Air Force; Tyler Koss, U.S. Navy; Julissa Mendoza, U.S. Army; Isaish Reeves, UTMB; Jeffrey Rice, U.S. Navy; and William Timberlake, U.S. Air Force. (This year's RAM Bowl teams were mixed, a departure from years past.)



News of Members

Christiansen Honored

Rowena Christiansen, M.Emerg.Health., MBA, M.B.B.S., B.A. (Hons.), LLB, Grad.Dip.Ed., DCH, Grad.Cert. Space Studies, ACCAM, a Fellow of AsMA, and recently elected a Vice President of AsMA's Council, was the recipient of the Aerospace Physiology Society's 2023 Fred A. Hitchcock Award. She was also the finalist in three categories (Academic of the Year, Female Space Leader of the Year, and Innovator of the Year – Individual) in the 2023 Australian Space Awards. She won the Innovator of the Year – Individual Award. Additionally, she was invited to write an article for *The Conversation* entitled "Along in a Dark Cave: What Can We Learn from Extreme Survival Experiments?". That article can be found at <https://theconversation.com/alone-in-a-dark-cave-what-can-we-learn-from-extreme-survival-experiments-208300>.

AsMA Members Interviewed

Drs. Joe Dervay, Robert Haddon, and Emanuel Urquieta were recently interviewed by a staff writer from the American Association of Medical Colleges (AAMC) about the Aerospace Medicine specialty. Dr. Dervay, who is the current Aerospace Medical Association (AsMA) President and an AsMA Fellow, spoke about lunar landings in the past and how the future for space medicine is bright and later his role in caring for astronauts. Dr. Urquieta, who is also an AsMA Fellow, talked about how space travel has taken off and that now is a good time to be in the field of space medicine. He additionally spoke about how discoveries made about human physiology in space can be applied on Earth. Dr. Haddon, an Associate Fellow of AsMA, was interviewed about how aero-



Dr. Deborah White (left), 2021-2022 AsPS President, stands with Dr. Christiansen (right) after she was presented with the 2021 AsPS President's Award, which she had not been able to receive prior to this.

space medicine cuts across all fields of medicine and how aerospace medicine specialists should possess diverse skill sets. Please visit <https://www.aamc.org/news/field-space-medicine-lifts> to read the full article.

Newman Appointed Member of Order of Australia

Professor David G. Newman was appointed a Member of the Order of Australia (AM) in the 2023 King's Birthday Honours List, for significant service to aerospace medicine. The Order of Australia is the pre-eminent way Australians recognise achievements which benefit or bring honour to the Australian community. In the Australian honours system appointments to and awards in the Order of Australia confer recognition for outstanding achievement and service.

Call for Abstracts: See the Call in the August issue of the journal or [online](#). The submission site will open on or around Sept. 1. We hope to see you in Chicago!

New Members

AsMA welcomes 24 new members in August.

- Achuff, Gabrielle; North Charleston, SC, United States
- Alexandrino, Fancisco; Rochester, MN, United States
- Almon, Aires; Tempe, AZ, United States
- Anderson, Abigail; South Yarmouth, MA, United States
- Balasubramanian, Kishore; Spring, TX, United States
- Carey, Matthew; Houston, TX, United States
- Copeland, Loren; Ridgecrest, CA, United States
- D'Urbano, Jessica; Sagrado, Italy
- Gaffey, Aaliyah; Sterling, IL, United States
- Giriyyappa, Harishankar; Bangalore, India
- Harman, John; Houston, TX, United States
- Huynh, Kevin; Redondo Beach, CA, United States
- Jordan, Alicia; Beaufort, SC, United States
- Laracuenta, Israel; Ponce, Puerto Rico, United States
- Masuzawa, Ryo; Suwa, Japan
- Neefs, Dirk; Brasschaat, Belgium
- Papali, Alfred; Charlotte, NC, United States
- Sanusi, Fatima; London, United Kingdom
- Shimo, Yuika; Haebaru, Japan
- Soukieh, Mohamad; Tampa, FL, United States
- Takizawa, Reo; Minato-ku, Japan
- Tran, Vienna; Mount Gambier, South Australia, Australia
- Uemura, Yuka; Kyoto, Japan
- Uhlig-Reche, Hannah; San Antonio, TX, United States

AsMA also welcomes back two returning members:

- Edwards, Patrick; Oakwood, OH, United States
- McKeith, Jim; Galveston, TX, United States



The graphic features the AsMA logo on the left, which includes a caduceus and the text 'ASMA MEDICAL ASSOCIATION'. To the right of the logo, the text 'CALL FOR AUTHORS' is written in large, bold, white letters on a dark blue background. Below this, a list of four bullet points is presented in white text on a lighter blue background. The first bullet point mentions the 100th anniversary of AsMA in 2029. The second bullet point states that the committee is seeking authors to contribute a chapter to a book about aviation and aerospace medicine. The third bullet point encourages celebrating the organization's history. The fourth bullet point provides contact information for the committee chair, Walt Dalitsch.

CALL FOR AUTHORS

- ▶ Join a project spearheaded by the History and Archives Committee as we prepare for the upcoming 100th anniversary of AsMA in 2029!
- ▶ The Committee is seeking authors interested in contributing a chapter to a book that examines the ways in which the fields of aviation and aerospace medicine have changed over the past century, as reflected by our Society through the years.
- ▶ Help us celebrate the history of our organization and the innovations in our field that many of you have not only witnessed but engineered.
- ▶ Please contact Committee Chair Walt Dalitsch at walt3@dalitsch.com if interested.

Ongoing Call for Papers

International Astronautical Federation (IAF) GNF Space Conversations Series; ONLINE, 14:00 Paris time. For more infor, visit <https://www.iafastro.org/events/iaf-gnf-space-conversations-series/>.

FAA News

Airport Sustainability

Thanks to funding from the Federal Aviation Administration (FAA), airports across the country are more sustainable. As part of nearly \$268 million in grants, about \$92 million will go to 21 airports for solar panels, electric buses, charging stations and electrification studies; investments that support good-paying jobs and their local communities. Also, as a part of this sustainability effort, the agency is providing funding to help general aviation airports safely transition to unleaded fuel for piston-engine aircraft. Around half of the funding is going towards solar power equipment and infrastructure. Close to another half is going towards the purchase of electric vehicles and electric transportation infrastructure at various airports. More of the funding is going towards safely eliminating leaded aviation fuels in piston-engine aircraft by the end of 2030. The FAA is funding these and other grants to help achieve the United States' goal of net-zero greenhouse gas emissions by 2050. *To read the entire release, please visit <https://www.faa.gov/newsroom/faa-invests-nearly-92-million-help-airports-reach-presidents-goal-net-zero-emissions-2050>.*

Light Sport Aircraft

The Federal Aviation Administration (FAA) is planning to enhance the safety and performance of Light Sport Aircraft operations. The proposed Modernization of Special Airworthiness Certification (MOSAIC) rule would put performance safety standards around larger aircraft that innovators are building by expanding the definition of Light Sport Aircraft. Under the proposal, the aircraft's weight limit is based on its stall speed. By permitting higher stall speeds, the proposal would bring within the Light Sport Aircraft regulatory framework aircraft weighing as much as 3000 lb. This more than doubles the weight of aircraft under the current definition of Light Sport of 1320 lb, allowing larger and stronger aircraft to qualify as Light Sport. The proposal would also expand the type of aircraft sport pilots can operate and allow them to use their aircraft for a wider range of operations such as some aerial work. Although sport pilots could operate aircraft designed with up to four seats, they would remain limited to operating with only one passenger. *Please see <https://www.faa.gov/newsroom/faa-proposes-rule-enhance-safety-and-performance-light-sport-aircraft> to read the release.*

HFACS Workshops

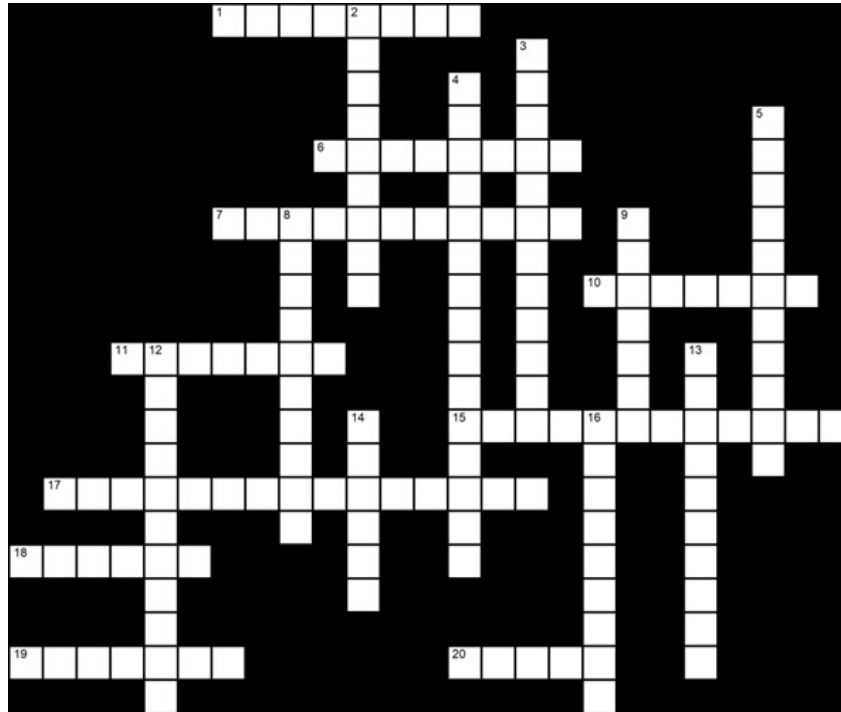
Workshops on the The Human Factors Analysis and Classification System (HFACS) are available online and in-person.

In-person sessions are available: September 12-13, 2023, Daytona Beach Campus, FL; and December 19-20, 2023, SpringHill Suites Las Vegas Convention Center, Marriott. For more info, please visit <https://www.enrole.com/erau/jsp/course.jsp?categoryId=558570F8&courseId=HFAC>.

A virtual sessions is available: October 10-11, 2023, 8 AM to 4 PM, Online/Virtual. For more info, please visit <https://www.enrole.com/erau/jsp/session.jsp?sessionId=D1023-OHFA-V1&courseId=OHFA&categoryId=558570F8>.

August Crossword Puzzle

By Lt. Col. Srihari Iyer K, Flight Surgeon, Indian Army. The answers are on p. N62 of this newsletter.



ACROSS

1. An engine which uses supersonic air from the atmosphere mixed with fuel to propel itself is called a _____. (8)
6. A pressure change of _____ kPa/min is the maximum that should be permitted for military aircraft if otitic or sinus barotrauma is to be avoided. (8)
7. Pelvis rotation and forward sliding under the lap straps of a restraint system is called _____. (11)
10. DCS, barotrauma, and _____ are the major risks during a high altitude high opening jump. (7)
11. Increase in severity of symptoms on administration of oxygen to correct hypoxia may occur due to a phenomenon called oxygen _____. (7)
15. Mulder's constant is a product of _____ and time. (12)
17. During ascent, the reduction in atmospheric pressure creates a condition whereby the tissue inert gas tension is greater than the total atmospheric pressure. This situation is called _____. (15)
18. Fatal injury means any injury which results in death within _____ days of an aircraft accident. (6)
19. Somatogravic illusions are attributed to effects of forces on _____ organs. (8)
20. The laboratory determination of lactic acid in the _____ may provide confirmation of hypoxia in an aircraft accident. (5)

DOWN

2. Skin symptoms, however, may present with the appearance of mottled or marbled skin lesions in DCS; this condition is also referred to as cutis _____. (9)
3. Rotational vertigo, nausea, vomiting, and ataxia which occurs if the pressure difference between the two middle ears exceeds a critical level is called _____ vertigo. (12)
4. A typical Night Vision Goggle works on the principle of image _____. (15)
5. During the Gulf War II, U.S. Marines called in an air strike due to apparently seeing a large enemy combat force moving out to attack them which resulted in no enemy assets being destroyed. This call for air strike was due to _____ illusion. (11)
8. Low backache attributed to lumbosacral transitional vertebra is called as _____ syndrome. (10)
9. Pinching of nose and swallowing to open the eustachian tube is called _____ manoeuvre. (7)
12. One of the physiological requirements of an oxygen system call for the dilution of oxygen and sufficient nitrogen to prevent the consequences of breathing 100 per cent oxygen continuously is to prevent acceleration _____. (11)
13. Peggy Whitson holds the record for the most _____ by a woman. (10)
14. The spirals of air that trail off the tips of an airplane's wings also contribute to drag. These wing tip effect steal energy from the motion of the airplane, creating _____ drag. (6)
16. L in the HELP position stands for _____. (9)

NEWS OF CORPORATE MEMBERS

MedAire Partners with Starlux Airlines

MedAire announced a new partnership with Starlux Airlines, Taiwan's rapidly growing international airline. The partnership includes comprehensive Complaints Resolution Official (CRO) training on the Air Carrier Access Act (ACAA), MedLink in-flight medical support, and Passenger Fit-to-Fly support. The partnership commenced in December 2022 with in-person meetings and workshops in Taipei, where MedAire demonstrated its ability to meet Starlux's needs and improve operational efficiency. In addition, MedAire's ACAA/CRO Train-the-Trainer program was instrumental in preparing Starlux for the recent launch of its Taipei-Los Angeles route. MedAire will provide Starlux Airlines access to MedLink delivered in Chinese, offering local language capabilities and ensuring seamless support across all services.

—Please visit <https://www.globenewswire.com/news-release/2023/05/31/2679877/0/en/MedAire-Partners-with-STARLUX-Airlines-to-Provide-Comprehensive-In-flight-Medical-Assistance-and-Accessibility-Training.html> to read more.

Mayo Clinic Doctor Voted ASTRO President-Elect

Sameer Keole, M.D., radiation oncologist, Mayo Clinic Comprehensive Cancer Center, has been named president-elect of the American Society for Radiation Oncology (ASTRO), the world's largest association of healthcare professionals specializing in treating patients with radiation therapies. Dr. Keole will begin his 4-year term in October 2023 during ASTRO's 65th annual meeting in San Diego. He will represent the society's 10,000 members by serving 1-year terms as president-elect, president, board chair, and immediate past chair. He will also oversee the 2025 ASTRO annual meeting. Dr. Keole specializes in caring for pediatric and adult patients diagnosed with spine, brain, and other central nervous system tumors.

—Please see <https://newsnetwork.mayoclinic.org/discussion/mayo-clinic-radiation-oncologist-voted-president-elect-of-the-american-society-for-radiation-oncology/> for more.

Corporate News Bites

UTMB: University of Texas Medical Branch's (UTMB's) Department of Global Health and Emerging Diseases has launched a new web-site. *The new site can be found at <https://www.utmb.edu/spph/department/of-global-health-emerging-diseases/home>.*

ALPA: The Air Line Pilots Association (ALPA) recently released a statement after the House of Representatives passed H.R. 3935, the Securing Growth and Robust Leadership in American Aviation Act. The bill contains a provision, which, if enacted by the Senate, could raise the airline pilot retirement age from 65 to 67. *To read the full statement, please visit <https://www.alpa.org/news-and-events/news-room/2023-07-20-alpa-statement-house-faa-bill>.*

IFALPA: The International Federation of Air Line Pilots Association (IFALPA) released seven new position papers in July. *Please see <https://www.ifalpa.org/publications/browse?publicationType=PositionPapers> to read the papers.*

Leidos Awarded Service Contract

Leidos was recently awarded a contract to provide intelligence, technical, financial, and management services to the Office of the Director of National Intelligence (ODNI). The single award, cost-plus-award-fee contract has a 1-year base period of performance and six 1-year options. Leidos will work to maximize synergies and efficiencies for ODNI by aligning intelligence, technical, financial, and management services with clear lines of contractor responsibility. Through this contract Leidos will provide analytic, intelligence management, and systems analysis support covering a wide range of regional and functional topics. These intelligence services will operate in an environment where priorities continuously and quickly evolve. Technical services include systems integration, cybersecurity, science and technology, counterintelligence, IT project management, security, and risk management. Additional management services include supporting facilities, assets, logistics, and information.

—Please visit <https://www.leidos.com/insights/leidos-awarded-375-million-contract-support-director-national-intelligence> to read more.

KBR Recognized as Great Workplace

KBR was proud to announce that it was recognized in July—not once, but twice—for their dedication to being the best possible company to work for. They were named to *Newsweek's* 2023 list of America's Greatest Workplaces and also earned a spot on Great Place to Work's list of the UK's Best Workplaces™ for Women. The *Newsweek* distinction reflects their unwavering dedication to fostering inclusive, productive, and innovative work environments. The Great Place to Work list celebrates workplaces that are not just providing a great work environment, but that are also ensuring they're creating positive and supporting environments for women. These recognitions are in addition to others KBR has received over the past few years, including being named as one of *Fortune* magazine's Best Workplaces in Texas (2023), a UK's Best Workplace™ for Well-being (2023), a position on *Fortune's* list of the World's Most Admired Companies (2022 and 2023), and appearing on *Forbes'* list of the World's Top Female-Friendly Companies (2021 and 2022).

—Please see <https://www.kbr.com/en/insights-news/thought-leadership/kbr-recognized-globally-great-workplace> for more.

Crossword Solution

