AEROSPACE MEDICAL ASSOCIATION FOUNDATION NEWSLETTER

Volume 23 / Fall 2025

Notes from the Chair

There are three things that I want everyone to know about the Aerospace Medical Association Foundation. First of all, donations to the foundation are tax deductible and they grow rapidly as they are immediately invested into our brokerage account which has performed well year after year. The average return on investment in the last 10 years has been 9% and last year was over 15% ! The foundation assets have increased from $658,500 on 12/23/23 to $1,050,000 as of 10/1/25. The year-to-date donations for 2025 are $84,200.00. We still have a goal of reaching $5 Million by 2029 in our Need for Speed campaign. It is easy to donate by going to our web site, asmafoundation.org. On-line donation by credit card, PayPal or bank transfer is now easy and secure with our new software. You can designate a Fund, donate as a tribute to someone, and set up a monthly recurrent donation to suit your budget.

Secondly, I want everyone to know what the Foundation enables the AsMA organization and its constituents to achieve. The Foundation has 19 dedicated funds that are responsible for funding over 20 yearly scholarships. These very competitive scholarships are mostly directed at students, residents, and aerospace medical professionals that are early in their careers. It is the most important mechanism that the AsMA organization has to grow, encourage, and develop the field of Aerospace Medicine. It encourages early achievement and recognizes people for their interest and early dedication to the field.

Third, the Foundation allows a mechanism where people who have spent their career in Aerospace Medicine can give back to a field that has given them so much. It is not important whether someone gives $100 or $10,000. But if Aerospace Medicine has benefited your life, then we would hope that you would participate in the Foundation at some level. For many of us, we feel that it is important that we establish a legacy that will continue after we are no longer at the annual meeting in fellowship with our life-long colleagues and have established dedicated funds that will fund scholarships long into the future. Please consider participating in the AsMA Foundation.

I wanted to thank all of the members who supported the Aerospace Medical Association Foundation with donations and pledges at the annual meeting. Total donations received were $45,092.00 after we added in the $20,000.00 matching donation! I apologize for running out of the AsMA Foundation golf shirts which I promised everyone, I just didn't realize that they would be so popular. We now have received more golf shirts and in all sizes. If you will email me (mcamp@1starnet.com) your delivery address and shirt size, then I will be glad to send one to you.

Mark R. Campbell, M.D., Chair

FOUNDATION ANNOUNCES NEED FOR SPEED FUNDRAISING CAMPAIGN IN ASSOCIATION WITH THE 100TH ASSOCIATION ANNIVERSARY

In 2024 the AsMA Foundation announced a $5 million dollar fund raising campaign to coincide with the 100th AsMA anniversary in 2029. The fund is planned to accelerate and empower the education, training, and research efforts of the next generation of physicians, scientists, physiologists, nurses, and aeromedical managers that will take human presence to deep space and higher, faster, and safer in the atmosphere. Specific targets for the funds include supporting education and graduate training in aerospace medicine, expanding technology in our field, establishing seed grants and support for young investigator research, and aeromedical support for training and support of the new workforce needed in commercial spaceflight. The Need for Speed: Farther, Faster, Together campaign seeks to reach the target goal in time to celebrate AsMA's 100th anniversary in May 2029. While a campaign of this magnitude will require some major gifts, the key to its success will be that all AsMA members participate in some way that fits their individual financial situation.

BOARD REPORT

We are pleased to announce three new Foundation Board members. Joe Dervay, MD, Jeff Sutton, MD, PhD, and our Executive Director, John Peters, MD have all agreed to serve 9-year terms. We are also pleased to welcome Ben Johnson, MD MSc as a new board member of the AsMA Foundation for a three-year term. He is currently a PGY-3 resident in Emergency Medicine at Stanford Health Care, and he is happy to join the board to provide perspective as a trainee and former scholarship recipient. Within AsMA, he recently finished serving a two-year term as AMSRO president (AsMA's student and resident org), and also serves on the Education and Training Committee.

TREASURER'S REPORT

Thanks to the hard work of previous and current Foundation Board Members as well as the many generous donors, the Foundation continues see strong financial growth. Total assets are at $1,050,000 which includes the Pershing Investment account and banking accounts.

The Foundation fund balances continue steady growth from many donors and strong investment performance with a total balance of $1,010,000. There are currently 19 named funds managed by the Foundation and one unrestricted fund. Most of those funds support the scholarships/awards that are presented annually. The 2025 winners are listed below.

Two new sponsored funds have been established, the Jeff Jones Fund and the Jeff Sutton Fund. Contact the Foundation Chair, Mark R. Campbell, if you wish to initiate a new fund to support a specific scholarship or to honor a person or theme. The Foundation is also thankful for the many other very generous unrestricted donations from AsMA Members during AsMA registration and throughout the year.

The Foundation's new donation website is easier to use and eliminates the fees that were associated with previous methods of on-line donations. Your donation can go to a specific fund or to unrestricted fund which supports among others the annual Fellows Awards.

Several AsMA members have made their donations an automatic monthly occurrence. What better way to support the development of the Foundation? You can do so by going to the AsMA Foundation Donation webpage.

This year the AsMA Foundation provided $20,000 in scholarships and awards benefiting 18 very deserving awardees.

AWARDS/SCHOLARSHIPS SUPPORTED BY THE ASMA FOUNDATION

AWARDEE	AMOUNT	FUND	SCHOLARSHIP/AWARD
Cheryl Kam	$1,250	General/Belland	AMSRO Trail Blazer Award
Nikita Nair	$500	ASAMS	Charles Berry
Samantha King	$2,000	AsMA Fellows	AsMA Fellows Scholarship 1st Place
Anthony Rengel	$1,000	AsMA Fellows	AsMA Fellows Scholarship 2nd Place
Cameron Shetler	$500	Jeffrey R. Davis	Jeffrey R. Davis Medical and Graduate Education Scholarship
Catherine Mandigma	$1,000	Philip J. Scarpa Jr.	Philip J. Scarpa, Jr.Aerospace Medicine Scholarship
Peter Hancock	$2,000	Goldenrath	Walter and Sylvia Goldenrath Award
Lydia Johnson	$1,000	Mantri/Belland	Anita Mantri Scholarship
Sharon Abokie	$1,000	Mohler	Stanley Mohler Scholarship
Not Awarded in 2025	$1,000	Louis Marshall	Louise Marshall Nursing Scholarship
Nicolò Favero	$750	SMA	SMA International Scholarship
Susana Alves	$500	SMA	SMA JBC Scholarship
Daan van der Nieuwenhof	$500	SMA	SMA KBR Ellis Scholarship
Kylah Zang	$750	SMA	SMA Dervay Undergraduate Scholarship
Matthew Makowski	$500	SNFS	Society of NASA Flight Surgeons Scholarship
Tara Nibhanupuddy	$1,000	SSA	Space Surgery Association Future Researcher Award
Tyson Brunstetter	$1,250	Tredici	Thomas Tredici Award
Mina Arsanious	$1,000	Myers	Jeffrey Myers Young Investigator Award

Current Funds and What They Support

AsMA Foundation Fund	Organization	Award/Scholarship
Stanley R. Mohler Fund		Stanley Mohler Scholarship
Space Medicine Association Fund	Space Medicine Association	SMA International Scholarship
		KBR Robert Ellis Award
		SMA Undergraduate Scholarship (Dervay)
		Jeffrey R. Davis Scholarship
Society of NASA Flight Surgeons Fund	Society of NASA Flight Surgeons	Society of NASA Flight Surgeons Scholarship
Walter and Sylvia Goldenrath Fund		Walter and Sylvia Goldenrath Award in Aerospace Physiology
Thomas and Margaret Tredici Fund		Thomas and Margaret Tredici Award
Kris and Pamela Belland Fund	Unrestricted/Foundation Board of Directors	AMSRO Awards
Aerospace Nursing and Allied Health Professionals Society Fund	Aerospace Nursing and Allied Health Professionals Society	Louise Marshall Scholarship
		Eileen Hadbavny Scholarship
John B. Charles Fund	Space Medicine Association	SMA John Charles Research Award
Jeffrey Myers Fund	Space Medicine Association	Jeffrey Myers Young Investigators Award
Jeffrey P. Sutton Fund	Space Medicine Association	
Jeffrey R. Davis and Kathryn A. Holland Fund	Space Medicine Association	Jeffrey R. Davis Scholarship Jeffrey R. Davis Medical & Graduate Education Endowed Scholarship
Philip J. Scarpa, Jr Fund	Space Medicine Association	Philip J. Scarpa, Jr Scholarship
Mark and Betsy Campbell Fund	Space Surgery Association	Space Surgery Association Future Research Award
Jeffrey Jones/Peter Lee Fund	Space Surgery Association	TBD
Anita Mantri PhD Memorial Fund	Aerospace Medicine Resident & Student Organization	Anita Mantri PhD Memorial Travel Scholarship
American Society of Aerospace Medicine Specialists Fund	American Society of Aerospace Medicine Specialists	Charles Berry Scholarship
Richard B. “Dick” and Peggy Trumbo Fund		Trumbo 5K Preventive Medicine Run/Walk
AsMA Foundation General Fund		AsMA International Scholarship
Richard and Issy Jennings Fund		
Mary F. Foley Fund	Aerospace Nursing and Allied Health Professionals Society	Annual Mary F. Foley Panel

SPECIAL ALTERNATE DONATION PATHWAYS

The AsMA Foundation appreciates the generous support we have received from AsMA membership and hope that certain giving strategies can benefit both those wanting to support our chosen field while also reducing their tax burden. The recently passed One Big Beautiful Bill Act (OBBBA) has several implications for those AsMA members considering charitable gifts. The legislation introduces a modest above-the-line charitable deduction for non-itemizers, but it limits the benefits of itemizing charitable gifts, which particularly impacts higher-income households.

For older AsMA members, Qualified Charitable Distributions (QCDs) continue to be an excellent strategy for those taxpayers who are subject to Required Minimum Distributions (RMDs), and in many cases the most tax efficient way to give.

In 2023, only about 10% of tax filers used itemized deductions. Now the standard deduction is$15,750 for single filers or married filing separately. The standard deduction is $31,500 for joint filers and $23,625 for those filing as the Head of Household. These numbers are indexed for inflation. In addition, the OBBBA now allows Above-the-Line deductions of $1000 (single) or $2000 (married filing jointly) for charitable cash donations. These changes and other changes enacted by the OBBA weaken the case for itemizing deductions, and for older retired individuals or those who must take required minimum deductions (RMDs), make the use of qualified charitable distributions (QCDs) very appealing.

New regulation limits the benefit of itemized deductions and includes changes that mean no deduction applies until charitable gifts exceed 0.5% of Adjusted Gross Income (AGI) and a new 35%deduction cap for high earners (a 10,000 donation yields just a $3,500 deduction). QCDs allow individuals aged 70.5 or older to transfer up to $108,000 (2025) directly from their IRA to a qualified charity, and if married with separate IRAs, the limit doubles. QCDs count toward ones RMD and are not included in taxable income. At the same time, one can support charitable activities in their area of interest. By reducing AGI, they may reduce tax liability and medical premiums.

Other advantages of QCDs are that they reduce the need to itemize tax deductions and offer benefit for those taking the standard deduction. There are many other ways for AsMA members to reduce tax load such as donating appreciated property or stock. The provisions of the new OBBBA are just being implemented, and it is critical to discuss one's individual situation with a trusted tax professional.

ANNOUNCEMENT OF ASMA FOUNDATION RESEARCH GRANT

The Aerospace Medical Association Foundation Research Grant will be awarded to a member of the Aerospace Medical Association who early in their career has demonstrated achievement, future potential, or interest in the area of Aerospace Medicine with an emphasis on research opportunities. The individual will submit an application to the AsMA Foundation Research Grant Committee and will be competitively chosen.

The AsMA Foundation Research Grant Committee will select the recipient. The AsMA Foundation Research Grant will be presented at the Annual Meeting of the Aerospace Medical Association and the recipient will be awarded $10,000.00 to be utilized as outlined in the recipient's, grant application. The application form will be available and all AsMA members will be notified at that time on December 1, 2025.

Submit the application by email by April 1:

Mark R. Campbell, MD
420 Collegiate, #300
Paris, TX 75460
903-785-4499
Fax – 903-785-4717
mcamp@1starnet.com

ANAHPS ANNOUNCES THE MARY F FOLEY ENDOWMENT FIFTH ANNUAL EVENT ON LEADERSHIP IN AEROSPACE MEDICINE

The Mary F Foley Endowment was established in her honor to perpetuate her legacy and to encourage other women to follow in her footsteps. The AsMA Foundation recognizes the continuous growth of the Mary F Foley Endowment fund which has reached $20,000. Monies are used to support educational events and outreach activities on social media platforms, podcasts, and webinars to increase visibility and attract new members to fortify AsMA and the ANAHPS constituent organization. Emphasis is given to topics of interest and initiatives that support the development of interdisciplinary teams with skill sets that serve the future needs of traditional aerospace medicine and emerging commercial space travel.

Contributions and investments to assist in these efforts to recognize women and to facilitate leadership development is greatly appreciated. If you wish to support these initiatives, please contribute to the Mary F Foley Endowment fund. Many thanks to all who have already contributed.

RICHARD B. "DICK" TRUMBO 5K PREVENTIVE MEDICINE FUN RUN/WALK HELD ON MONDAY, JUNE 2, 2025 IN ATLANTA, GA

The 24nd Annual Richard "Dick" Trumbo 5K Preventive Medicine Fun Run/Walk was held at dawn on opening day for the AsMA-UHMS annual scientific meeting in Atlanta. A large crowd of registered runners walked/ran on the sidewalks and through a scenic park near the Hyatt Regency Hotel.

This was a special year due to the recent death of Peggy Trumbo, and AsMA president Robert Orford spoke to participants prior to the race start to celebrate her long-term support for her husband, Dr.

Richard Trumbo, and the event. The Trumbo Run/Walk event is supported by an endowed fund established by Peggy Trumbo and the friends and colleagues of Dr. Trumbo. UTMB Aerospace Medicine provided medical support and race shirts.


This year's large and energetic field had fun, but there was outstanding competition too. As begun last year, the race categories were for male and females ages 35 and under, 36-50, and over 50. Top women runners were Ines Brito, under 35, Karen Ong, 36-50, and Kathy Hughes, over 50. Men's top finishers in the same categories were Tayton Hess, Ben Easter, and Dan Murray. Tayton Hess had the fastest overall time at 18:41 minutes for the 5K distance.

Plans are well underway for the Richard B. "Dick" Trumbo 5K Preventive Medicine Run/Walk to be held at 6:00 AM on Tuesday, May 19, most likely at the Mile-High Trail in Denver's beautiful City Park. We hope that you attend the 2026 AsMA-UHMS Annual Scientific Meeting in Denver and also hope you participate in the Trumbo Run/Walk

THE ASMA FOUNDATION THANKS OUR 2024 DONORS

The Foundation supports the field of aerospace medicine and the Aerospace Medical Association through the generosity of members and friends of AsMA. In 2025, 120 donors supported the Foundation and year to date donations are 84,200.00. We wish to thank the following individuals for helping the Foundation support the Association, aerospace medicine and the allied fields. The mission of the Foundation could not be possible without your generous support.

The Foundation appreciates gifts of any amount, but we will specifically recognize our more generous donors through AsMA Foundation Orbit donor categories unless they prefer anonymity. While we make every effort to include each donor, if your name was inadvertently omitted from the lists or you are listed incorrectly, please let us know.

Dragon Donors ($10,000+)	**Redstone ($500+)**
Anonymous	Christopher Backus
Jeff Jones	William Dodson
Richard Jennings	Amy Hicks
Saturn V ($5,000+)	William Tarver
Al Parmet	Jeff Davis
Titan ($2,500+)	Nereyda Sevilla
David McKenas	
Annette Sobel	

Atlas ($1,000+)	
Kris Belland	Foley Foundation
Gary Gray	Kathryn Hughes
Frances Laue	Robert Laurent
Russell Rayman	Jeff Sutton
Peggy Trumbo	

X-15 ($100+)		
Nomy Ahmed	Denise Baisden	Eilis Boudreau
Keith E. Brandt	Tyson Brunstetter	Dennis Deakins
Charles DeJohn	James DeVoll	James Elliott
Michelle Frieling	Leroy Gross	Michael Harrison
Jamie Harvey	Thomas S Hoffman	William Klein

Peter Letarte	Justin Nash	John Gilbert Oas
James Popplow	Robert Price	Casey Pruett
M. Joan Saary	Mark Sheehan	Lacouture Shelby
Warren Silberman	Jeffrey Sventek	Daniel L. Van Syoc
Tory W Woodard		

HERITAGE SOCIETY MEMBERS

The Foundation Heritage Society honors colleagues and friends who make a commitment to the Foundation by will, revocable living trust, life insurance, life-income gift, retirement account designation or a deferred gift arrangement. Qualifying commitments may be of any amount and may be directed to support existing programs and endowments, qualified new programs of the donor's choice, or may be undesignated. If others meet these criteria, please notify Dr. Campbell or any of the Board members.

Charles Billings*

Genie Bopp

David K. Broadwell

Jeffrey R. Davis

Walter and Sylvia Goldenrath*

Richard and Issy Jennings

Shuba and Vish Mantri

Al Parmet

Quay Snyder

Jim and Sandy Vanderploeg

*deceased

WINNERS ANNOUNCED FOR THE 2025 AWARDS SPONSORED BY ASMA FOUNDATION ENDOWED FUNDS

AsMA Fellows Scholarships

The AsMA Fellows Scholarship Committee is pleased to announce their selection of the 2025 scholarship winners.

The 1st Place Winner was Dr. Samantha King for her presentation and published manuscript on “Tolerance of Centrifuge-Simulated Spaceflight in Individuals with Diabetes Mellitus.”

The 2nd Place Winner was Dr. Anthony Rengel for his presentation and manuscript on “Embolic Ischemic Cortical Stroke in a Young Flight Instructor with a Small Patent Foramen Ovale.”

The AsMA Fellows Scholarship is funded by the AsMA Foundation and is presented annually to two AsMA members who are students in an aerospace medicine residency program, graduate program in aerospace medicine (Master or Ph.D.), medical certificate or aerospace diploma course, or in a full-time education/training program in the allied fields of nursing, physiology, human factors, psychology, ergonomics, and engineering.

Selection criteria include delivering a slide or poster presentation as a first author at the AsMA Annual Scientific Meeting and then submitting a manuscript as first author for publication in AsMA’s Aerospace Medicine & Human Performance (AMHP) Journal based on the same topic and/or material covered in the slide or poster presentation.

The 1st and 2nd Place Winners are selected by the AsMA Fellows Scholarship Committee based on the highest scientific value, originality, quality and relevance of the applicant’s presentation and AMHP

manuscript related to the field of aerospace medicine (including allied scientific disciplines). Special consideration is given to those applicants who are at an early stage in their career development.

Melchor Antunano, M.D., M.S., Chair, Fellows Scholarship Committee

Walter and Sylvia Goldenrath Award – Peter Hancock, Ph.D., D.Sc., FAsMA

Peter Hancock, Ph.D., D.Sc., FAsMA, is the winner of the 2025 Walter & Sylvia Goldenrath Award for his lifetime of contributions to the understanding of the way in which physiological capacities impact cognitive performance, for the derivation of laws relating to the thresholds of response efficiency in differing orders of perceptual-motor and mental capability under elevated level of stress, and for the application of these insights into aviation and aerospace safety and enhanced productivity across nearly 50 yrs of research resulting in hundreds of relevant academic works. For more than five decades, he has contributed to aviation physiology, human factors and aerospace safety understanding of complex flight system operations under stress. He has generated fundamental empirical and theoretical insights into the relationship between stress and operator performance, most especially in the area of thermal extremes. He has demonstrated how an understanding of physiological adaptation, and the limits to such capabilities, can be directly applied to changes in response capacity, especially to extremes of demand. He is an acknowledged world leader in this critical area for all aerospace systems.

Prof. Hancock is Provost Distinguished Research Professor in the Department of Psychology and the Institute for Simulation and Training, as well as at the Department of Civil and Environmental Engineering and the Department of Industrial Engineering and Management Systems at the University of Central Florida (UCF). In 2009 he was created the 16th ever UCF University Pegasus Professor (the Institution's highest honor) and in 2012 was named 6th ever University Trustee Chair. He directs the MIT2 Research Laboratories. Prior to his current position he founded and was the Director of the Human Factors Research Laboratory (HFRL) at the University of Minnesota, where he held appointments as Professor in the Departments of Computer Science and Electrical Engineering, Mechanical Engineering, Psychology, and Kinesiology, as well as being a member of the Cognitive Science Center and the Center on Aging Research. He continues to hold an appointment as a Clinical Adjunct Professor in the Department of Psychology at Minnesota. He is also an affiliated Scientist of the Humans and Automation Laboratory at Duke University, a Research Associate of the University of Michigan Transport Research Institute, and a Senior Research Associate at the Institute for Human and Machine Cognition in Pensacola, FL. He is also a member of the Scientific Advisory Board of the Hawaii Academy.

Professor Hancock is the author of more than 1,000 refereed scientific articles, chapters, and reports as well as writing and editing more than 20 books. He was the Principal Investigator on a Multi-Disciplinary University Research Initiative in behavioral science, the first ever awarded by the U.S. Army.

He was also the recipient of the first ever research grant given by the Federal Aviation Administration. He has been the recipient of many awards and honors, including being President of the Human Factors and Ergonomics Society, a position he has held twice and is only the second person to do so. He was named Distinguished Mentor of the Year by the Society for Military Psychology, won the William Collins Award of the Aerospace Human Factors Association, and was awarded the Roger Green Medal by the Royal Aeronautical Society. He was named a UCF Luminary by the University of Central Florida, received the Kent K. Gillingham Award from the Aerospace Medical Association, and won the Jeffries Aerospace Medicine and Life Sciences Lifetime Research Award from the American Institute of Aeronautics and Astronautics.

His most recent awards include the Lifetime Contribution to Modelling and Simulation from the National Training and Simulation Association, as well as the extremely prestigious National Safety Council's Distinguished Service to Safety Award, its highest honor. In early 2023 he was sworn in as a second term member of the U.S. Air Force's Science Advisory Board and in the middle of the same year was named HFEWomen Mentor of the year (the first man to win any of the group awards in the nearly 20 years of its existence) by the Human Factors and Ergonomics Society. He is a Fellow of the Aerospace Medical Association and a member of the Life Sciences and Biomedical Engineering Branch, the Aerospace Physiology Society, and the Aerospace Human Factors Association.

THOMAS J. AND MARGARET D. TREDICI AWARD - Tyson J. Brunstetter, MBA, OD, PhD, CAsP, FAAO, FAsMA

Tyson J. Brunstetter, MBA, OD, PhD, CAsP, FAAO, FAsMA, is the 2025 winner of the Thomas J. and Margaret D. Tredici Award. He received the award for his nearly three decades leading dozens of research, development, test, and evaluation (RDT&E) and clinical surveillance efforts to optimize human ocular health, visual performance, and mission effectiveness in austere aerospace environments. From advanced laser eye protection, helmet-mounted cueing systems, and advanced refractive surgery protocols, to Individual First Aid Kits, the Tactical Combat Casualty Care Card, and Spaceflight Associated Neuro-ocular Syndrome (SANS), his positive influence extends from the battlefield to low Earth orbit.

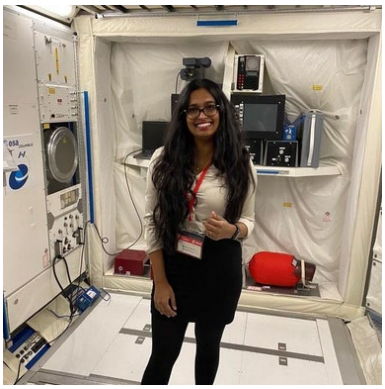
During 24 years on active duty, Dr. Brunstetter worked primarily within areas such as: aircrew laser

eye protection; helmet-mounted cueing systems for tactical aircraft; advanced refractive surgery; and deployable battlefield medical devices. In particular, he served as U.S. Navy Refractive Surgery Program Research Director (2006-2011), leading 21 studies across nine Department of Defense (DoD) commands. Results permitted data-driven decisions regarding optimal refractive surgery protocols for servicemembers, permitting spectacle-free operations and improving visual performance. The 500-subject "LASIK in Naval Aviation" study led to the approval of laser-assisted in situ keratomileusis (LASIK) for U.S. Naval Aviators and aircrew, as well as NASA astronauts. In addition, Dr. Brunstetter served as Director of Joint Medical Test & Evaluation at the Defense Health Agency (2011-2014). His primary duties included creating the first Joint-Service First Aid Kit (JFAK) and revising DD-Form 1380 (Tactical Combat Casualty Care Card). He drove the introduction of rigid eye shields into Individual First Aid Kits (IFAKs) across all four Services, as well as inclusion of "Eye-Shield" as a treatment option on DD-Form 1380, efforts meant to eliminate pressure patching by battlefield first responders in cases of suspected penetrating ocular injuries, a treatment which can cause expulsion of intraocular contents.

From 2016-2020, Dr. Brunstetter was detailed to the NASA Johnson Space Center (JSC) Space Medicine Operations Division as a DoD Aerospace Medical Liaison officer to support the investigations into a unique condition affecting the eyes, brains, and vision of astronauts during spaceflight: Spaceflight Associated Neuro-ocular Syndrome (SANS)—A "Red Risk" for Mars missions. Following Navy retirement (2020), he continues to serve NASA as SANS Clinical Lead (Eyes & Vision). He also serves on the SANS Sub-working Group of the Multilateral Medical Operations Panel (MMOP) alongside colleagues from NASA's International Partners; as coinvestigator on four NASA SANS research studies; and as subject matter expert (SME) and Remote Guider for ocular data collections occurring onboard the International Space Station (ISS).

Dr. Brunstetter earned his Doctor of Optometry, Master of Science, and Ph.D. degrees from Ohio State University, as well as an Executive MBA from the Naval Postgraduate School. He was winged as a Navy Aerospace Optometrist in 2002 and earned Board Certification as an Aerospace Physiologist in 2006. He is a Fellow of AsMA (2009) and the American Academy of Optometry; a member of the Space Medicine Association, Aerospace Physiology Society, American Optometric Association, and Association of Armed Forces and Federal Optometric Services; and author/coauthor of 32 peer-reviewed scientific publications, 15 military publications, 27 peer-reviewed scientific posters, 1 textbook chapter, and >150 conference presentations and guest lectures.

ANITA MANTRI, Ph.D., MEMORIAL TRAVEL SCHOLARSHIP – Lydia Johnson Kolaparambil Varghese, MD



Lydia Johnson Kolaparambil Varghese, M.D., currently serves as a physician and researcher in anaesthesiology, emergency medicine, and aerospace medicine at Mühlenkreiskliniken in Minden, Germany. She graduated summa cum laude from the University of Perugia Medical School in Italy. She completed clinical training and research placements across Germany and Italy, including the University Hospitals of Cologne, Florence, and Marburg.

Her academic work focuses on clinical care in extreme environments, with research interests spanning in-flight medical emergencies, microgravity CPR, and aerospace physiology.

She has co-authored multiple peer-reviewed publications, contributed to the European Space Agency's Space Physician Training Course, and presented at major international conferences, including AsMA, ICAM, and ECAM Conferences. Named a Top Talent Under 25 in the 2020 global "Top Talent 25 Under 25" recognition program, she has also received several awards and fellowships acknowledging her interdisciplinary leadership and academic excellence.

She recently became an Associate Fellow of the Aerospace Medical Association and is an active member of the German Society of Aerospace Medicine (DGLRM) and ESAM. She contributes to several international collaborations in aerospace medicine, including systematic reviews on commercial spaceflight healthcare, operational medicine frameworks, and future care models for altered gravity environments. Her academic development was profoundly shaped by her late mentor and friend, Prof. Jochen Hinkelbein. His visionary spirit and unwavering dedication to the field continue to guide her commitment to advancing aerospace medicine in Europe and beyond.

STANLEY R. MOHLER, MD, AEROSPACE MEDICINE ENDOWED SCHOLARSHIP – Dr Sharon Ayenajei Abokie

Dr. Sharon Ayenajei Abokie is a Nigeria-born, Sierra Leonetrained medical officer, the daughter of an ex-pilot. She graduated in 2021 as the best biochemistry student from the University of Sierra Leone's College of Medicine & Allied Health Sciences (COMAHS). She pursued clinical practice and has an interest in neurosurgery and aerospace medicine. She is currently a postgraduate student at the esteemed King's College London studying aerospace medicine. Despite limited exposure and underrepresentation of African medical

professionals in aerospace medicine, she has shown remarkable determination in pursuing this unique specialty. Through networking and mentorship, she was granted the honorable International Academy of Aviation and Space Medicine (IAASM) scholarship in 2024.

She provides guidance and inspiration to young medical professionals exploring new frontiers in medicine and is dedicated to bridging gaps in global healthcare and expanding opportunities for African medical professionals in aviation and space medicine. She remains committed to pushing the boundaries of medical science through opportunities, networking, and further training in aviation and space environments.

PHILIP J. SCARA, Jr. AEROSPACE MEDICINE ENDOWED SCHOLARSHIP – Catherine "Cath" Raisa Kimberly Pal-et Mandigma

Catherine "Cath" Raisa Kimberly Pal-et Mandigma is a board-certified nutritionist-dietitian specializing in astronaut nutrition. Inspired by the International Lunar Observatory Association (ILOA) award in 2018, she founded the Space4Pinays (Space4Women-Philippines) to motivate women and girls across the country to pursue space studies.

In 2022, she was awarded the IAF Emerging Space Leader in Paris, the first Filipina and Nutritionist-Dietitian. She is also the recipient of the esteemed 2020 NDAP Foundation Preciosa Irma Florentin award for her work in space nutrition. Her highly interdisciplinary-scientific background and diverse experience led a multination team to the championship in the 2018 Y-ISEF in Japan.

This gave her the chance to lead the 2019 SG (ASEAN) in Thailand on the capacity-building of the ASEAN Space Sector. She represented the Philippines on several platforms: in Athens (2017), Melbourne, Australia (FASTCO, 2017), and Bremen, Germany (IAC 2018).

In 2017, she launched the Choco Boru™ space food. Interested in cancer prevention in the deep space travel, she ventured into antioxidant research in her Nutrition MS at the University of the Philippines. In 2018 she was described in an issue of JAXA magazine as a firm visionary in human spaceflight. Currently, she is a member of the Ad Hoc Committee on Commercial Spaceflight in the Aerospace Medical Association and presented their preliminary work in GI/Nutrition at ICAM 2024 in Lisbon, Portugal.

SPACE SURGERY ASSOCIATION FUTURE RESEARCHER AWARD - Tara Nibhanupudy

Tara is a very recent graduate of the Boston University Chobanian & Avedisian School of Medicine. She previously had received her BA in Medical Sciences and Medical Anthropology at Boston University. She is just starting her Otolaryngology Residency at UT Medical School at Houston. She has already been very involved in both AMSRO and SSA for several years.

She has also been directly and actively involved in research concerning the neuro-vestibular effects of spaceflight and neuro-vestibular post-landing adaptation. Early on, she did an aerospace medicine research clerkship at the NASA JSC Neuroscience Lab and later was a Research Fellow at the Harvard Medical School Vestibular Physiology Lab.

SPACE MEDICINE ASSOCIATION JEFFREY R. DAVIS MEDICAL AND GRADUATE EDUCATION ENDOWED SCHOLARSHIP - Cameron Shetler

Cameron Shetler is a final-year medical student at the University of Melbourne and holds a degree in Chemistry from New York University Shanghai. At the 2025 AsMA Conference, Cameron will present a systematic review on skin cancer in astronauts and is a finalist for the Young Investigators Award. She will also present research on dermatitis in astronauts at the 2025 International Astronautical Congress (IAC) in Sydney, Australia.

Cameron's earlier research has focused on biochemistry, including publications on the effect of metal ions on the Covid-19 enzyme PLpro and key residues in hexokinase II. In 2024, she presented at the University of Melbourne Surgical Student Society's Surgery in Space Poster Competition on 3D bioprinting for surgical wound management. During her medical studies, Cameron received the Royal Melbourne Hospital Clinical School's 2023 Muriel Moody Prize for demonstrating "skill, kindness, and human understanding in helping skin patients." She currently serves as President of the UniMelb Dermatology Interest Society and is a Student Ambassador for the Australian Space Agency's Young Leaders Program.

SPACE MEDICINE ASSOCIATION JEFF MYERS YOUNG INVESTIGATORS AWARD - Mina N Arsanious

Mina is an Egyptian-born Anaesthesiology resident from the UK with a background in emergency medicine, intensive care and expedition medicine. He has worked in extreme environments across the

globe from the jungles of Borneo & Costa Rica to the high-altitude peaks of Kilimanjaro and Kinabalu, not to mention the Sahara desert in Morocco and the African savannahs of Sierra Leone and Liberia. He recently completed a 2-year secondment with the Royal Flying Doctors Service (RFDS) for South Eastern Australia where he worked as an aeromedical retrieval doctor as well as providing telehealth medical support to some of the most rural and remote communities in the outback.

A fellow in Expedition and Wilderness Medicine (FEWM) and holder of the Diploma for Delivery of Medical Care in Conflicts and Catastrophes (DMCC) he has a keen interest in medical care in austere environments not least of all Space Medicine.

During his time in Australia he founded the Oceania chapter of the Aerospace Medicine Residents and Students Organisation (AMSRO Oceania) and was recognised for his efforts at the 2025 Australia Space Awards as a finalist for Mentor of the Year. This year at the AsMA Scientific Meeting he was awarded the Space Medicine Association's Jeffery Myers Young Investigator Award 2025 for research done whilst working with the RFDS.

He is currently based in London, UK continuing his anaesthesiology residency at St. Bartholomew's Hospital Cardiothoracic centre. He remains deeply passionate about all things extreme and austere medicine and will be presenting at the World Extreme Medicine (WEM) Conference in Edinburgh, Scotland this November.

SPACE MEDICINE ASSOCIATION JOHN B. CHARLES ENDOWED SCHOLARSHIP - Susana Filipa Dias Alves

Susana Filipa Dias Alves is a finalist for the Integrated Master's in Biomedical Engineering at NOVA School of Science and Technology. Her passion for aerospace medicine began in 2020 when she joined PYASMA, leading webinars to promote aeronautics medicine. In 2022, she enriched her skills at the ESA/ELGRA Gravity-Related Research Summer School. Currently, she is developing her master's thesis at the IDeaS Lab, designing simulation-based training for medical emergencies aboard the Lunar Gateway. Concurrently, Susana serves as Portugal's National Point of Contact for the Space Generation Advisory Council and as a Biomedical Engineer on Switzerland's Asclepios analogue mission.

A sought-after speaker, she has presented at Madeira Digital Week and will present at the 2025 AsMA-UHMS Scientific Meeting. In 2023, she joined the ICAM task force, collaborating with SMAPOR. Ultimately, Susana aspires to develop portable, advanced biomedical technologies for autonomous crew health on deep-space missions and improve terrestrial healthcare systems.

SPACE MEDICINE ASSOCIATION JOE DERVAY UNDERGRADUATE SCHOLARSHIP - Kyla Zhang

Kyla Zhang is a dedicated researcher and aspiring future physician with a passion for advancing space medicine and technology. A student in the Program in Liberal Medical Education (PLME) at Brown University, she is pursuing a Sc.B. in Aerospace Physiology (2023-2027) and an M.D. at The Warren Alpert Medical School (2027-2031).

Kyla's research spans space medicine, astrobiology, and organic geochemistry. As an undergraduate researcher in Dr. Peter Lee's Space Medicine Lab, she focuses on engineering medical devices for microgravity and has presented on AI-powered health monitoring for deep space missions. Her work has been recognized with NASA Rhode Island Space Grant and Brown's Undergraduate Research Award, supporting her original projects investigating microbial ecosystems and lipid biosignatures for extraterrestrial life detection.

A member of the Aerospace Medical Association, Kyla is driven by a commitment to innovation, contributing to the advancement of human health and exploration in space.

SPACE MEDICINE ASSOCIATION INTERNATIONAL SCHOLARSHIP - Nicolò Favero

Nicolò Favero is a medical doctor currently specializing in General Practice under the King's College Hospital Training Scheme in London. He holds a Master's degree in Aerospace Medicine from King's College London, awarded with Distinction, as well as a Diploma in Aviation Medicine from the Faculty of Occupational Medicine (UK).

His involvement in aerospace medicine includes work with King's College London's Spacesuit Physiology Laboratory—a research group dedicated to advancing human performance research for space applications—as well as with the U.S. start-up C2Space, which focuses on research in extreme

environments. He also has prior experience working in the design and testing of oxygen systems.

Before entering General Practice, he gained clinical experience in Emergency and Critical care medicine. Outside of clinical and aviation medicine, he is working toward his Private Pilot License and has a strong interest in commercial aviation and space exploration.

AEROSPACE MEDICAL ASSOCIATION INTERNATIONAL SCHOLARSHIP – Lucas King

Lucas King, Lt., M.D., MBA, B.Kin., is currently serving in the Canadian Armed Forces. He earned a Business Certificate from Saskatchewan Polytechnic in Moose Jaw, Saskatchewan, Canada, in 2013, and was awarded his Doctor of Chiropractic degree in 2019. The year before, he graduated with a Bachelor of Kinesiology from the University of Regina in Saskatchewan.

In 2021, he earned his M.D. from the University of Saskatchewan College of Medicine and is serving a Family Medicine Residency, Medical Officer Training Program, starting in 2023 which will extend to 2026, at the University of Saskatchewan College of Medicine. In addition, he has taken a variety of medical education courses such as Advanced Cardiac Life Support, Advanced Trauma Life Support, EDE Core Bootcamp (PoCUS), and a University of Texas Medical Branch Principles of Aviation and Space Medicine virtual course and workshop. He holds a private pilot's license and advocated for the first longitudinal integration into a base clinic where he works with the base medical team to support patients primarily from the local flight school. This is the first and only placement of its kind in Canada currently.

He is a Resident Representative of the Canadian Society of Aerospace Medicine's Student and Resident Subgroup since 2024, Lead Resident at the Moose Jaw Family Medicine Residency Program at the University of Saskatchewan, and a member of the Aerospace Medicine Student and Resident Organization (AMSRO), where he is Co-Chair of the AMSRO Military Committee. He is also a member of the Canadian Society of Aerospace Medicine, the Saskatchewan Medical Association, and the Canadian Medical Association. His awards and scholarships include the CFMSMD Financial Leadership Award, the CFMS-CMA Strategic Innovation Fund Grant for Leadership Development, being chosen as a Drs. Peter and Stephanie Potoski Bursary Recipient, and the N. Murray Edwards MBA-MD Entrance Award.

JEFFREY R. DAVIS, MD AEROSPACE MEDICINE ENDOWED SCHOLARSHIP – Cyril Mani

Cyril Mani is a medical student at McGill University in Montreal, Quebec, Canada, with an Honors degree in Mechanical Engineering. During his engineering studies, he led the development of Eastern Canada's first permanent student rocket engine test facility while contributing to Canada's first commercial launch capacity.

Since 2022, he has been part of the Space Medicine and Astronaut Health division at the Canadian Space Agency, where he applies his systems engineering expertise to developing biomedical technologies for deep-space medical care. His work supports the Connected Care Medical Modules initiative, which tests AI-driven medical tools in analog space environments such as parabolic flights and remote Canadian communities.

In parallel, he conducts aerospace medicine research with firms like Thales, integrating machine learning models with biomonitoring devices for point-of-care diagnostics. He also leads a cerebrovascular hemodynamics study with McGill's Chemical Engineering Department, analyzing carotid bifurcation flow dynamics under varied gravity profiles—work set to be presented at the 2025 AsMA meeting. Cyril is a member of the IEEE Engineering in Medicine and Biology Society, McGill Institute for Aerospace Engineering, the Order of Engineers of Quebec, Youth Science Canada, AMSRO, and AsMA.

His previous awards include the full-ride Schulich Leader Scholarship at McGill (2019), Ross McFarland Student Award (2023), Joseph P. Dervay Undergraduate Scholarship (2023), Stanley R. Mohler Scholarship (2023), CSA Director's Award (2022), and Future (2019)/Succession (2023) Scholarships of the Order of Engineers of Quebec. He is currently working on M.D. and Master of Surgery degrees at McGill University.

SPACE MEDICINE ASSOCIATION RESIDENT & POST-DOCTORATE SCHOLARSHIP SPONSORED BY KBR IN HONOR OF ROBERT ELLIS – Daan Willem Albert van den Nieuwenhof, MD

Dr. Daan van den Nieuwenhof is a medical doctor and PhD candidate at the department of otorhinolaryngology (ENT) of the Radboud University Medical Center in the Netherlands. With a passion for space medicine sparked during an internship in Australia, he aims to merge ENT with space medicine to address unique challenges in microgravity and extraterrestrial environments.

Daan has completed the ESA Human Space Physiology course and supported the Asclepios III Analog Astronaut Mission as Head of Communications and on-site medical officer. He is an active member of SGAC's Space Medicine and Life Sciences Committee and he received the Giant Leap Award to attend the Space Generation Congress. Daan has studied microgravity-induced cellular changes and published in npj Microgravity. His current research includes ENT-related emergencies in space and the surgical treatment of drooling in neurodevelopmentally disabled children. Additionally, he performs neuro-vestibular research for the International Centre of Astronautical Development.

SUPPORTING THE ASMA FOUNDATION

The AsMA Foundation supports aerospace medicine, the allied fields, and the Association through scholarships, awards, research grants, scientific publications, professional development, educational opportunities, and other activities. With the help of recent donations and gifts transferred from the annual meeting registration process, the funds of the constituent organizations, endowments, and Foundation now total $1,050,000. Foundation and its mission continue to be dependent upon generous donations from AsMA members and friends. We thank all the donors and supporters of the Association and the Foundation whose contributions continue to make a difference in aerospace medicine and the allied fields. We thank all our donors and encourage those who have not contributed to help the Foundation reach its next goal.

While the Foundation's unencumbered funds are limited, there has been considerable effort to find specific activities and projects that the Foundation can support for the Association. Please consider donating to help us accomplish this goal and continue our ongoing programs. However, it is also possible to designate Foundation gifts to existing Foundation endowed funds or constituent organization funds held in the Foundation's pooled investment fund.

It is also now possible to donate cash gifts through the Foundation's website noted below. Gifts may include the donation of securities, bequests, life insurance, savings bonds, retirement plan assets, or real estate. Richard Jennings provides relevant information regarding members who wish to limit taxx liability associated with Many of these methods can limit tax liability, but it is prudent to consult a tax advisor. Donating stocks or securities directly to the Foundation is easy and requires no more than emailing the Board Treasurer for simple transfer instructions treas@asmafoundation.org).

If you prefer, you can call Jeff Sventek of the AsMA HQ office at 703-739-2240 ext 105. For more Foundation information, visit the Foundation website at: https://asmafoundation.org As you consider your next contribution, keep in mind that donations can be done through:

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- AsMA members should also consider joining the Heritage society and include the Foundation in their estate planning or by designating future gifts

It is also now possible to donate cash gifts through the Foundation's website noted below. Gifts may include the donation of securities, bequests, life insurance, savings bonds, retirement plan assets, or real estate. Many of these methods can limit tax liability, but it is prudent to consult a tax advisor. Donating stocks or securities directly to the Foundation is easy and requires no more than emailing the Board Treasurer for simple transfer instructions (treas@asmafoundation.org). If you prefer, you can call Gisselle Vargas of the AsMA HQ office at 703-739-2240 ext 104. For more Foundation information, visit the Foundation website at: https://asmafoundation.org. As you consider your next contribution, keep in mind that donations can be made through:

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- AsMA members should also consider joining the Heritage society and include the Foundation in their estate planning or by designating future gifts

CONTACTING THE FOUNDATION

AEROSPACE MEDICAL ASSOCIATION FOUNDATION
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Martin Luther King, Jr.

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