

AEROSPACE MEDICAL ASSOCIATION FOUNDATION NEWSLETTER

Volume 17 / Fall 2022

FALL FOUNDATION UPDATE

FOUNDATION BOARD

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Happy Fall from *your* AsMA Foundation. Last column I covered commercial spaceflight and a certain virus, but this time I want to focus on what's happened since our 2022 AsMA annual meeting. We have been able to re-establish a more normal cycle of awards, so read about the worthy recipients of Foundation support this year. I would be remiss not to acknowledge the turmoil in the financial markets, and the Foundation's portfolio is certainly not immune. We do have a conservative investment policy and are able to continue our awards at the current level despite downturns. This also means it's an excellent time to donate to the Foundation—your donation will grow when the next upturn happens, as it always does!

I want to welcome Dr. Mark Campbell, a great supporter of space medicine, to our Board of Directors. Many of you know Mark as an energetic and capable person, and the Board is lucky to have him help us steer the Foundation. Mark and his wife Betsy also endowed a new fund to support those working in the burgeoning field of space surgery. Welcome aboard, Mark!

Dr. Jeff Myers, who has personally managed and financially supported the AsMA Young Investigator award for years, has also endowed a new fund with the Foundation. This fund ensures his legacy of helping the next generation of researchers in our field get a good start. Kudos to Jeff for all he has done, and for ensuring this award will be permanent.

Remember, YOU are the Foundation's greatest resource. We need not just your financial support, but also your inspiration to help us grow. Please let me know your thoughts anytime-dkbwell@mac.com. As always, your donations are welcome by mail, through registration at the AsMA annual meeting, and through our website at asmafoundation.org.

David K. Broadwell, M.D., Chair



DR. JEFF MYERS CREATES AN ENDOWED FUND TO SUPPORT THE SPACE MEDICINE ASSOCIATION'S YOUNG INVESTIGATOR AWARD

At the AsMA annual scientific meeting in Toronto in 1993, Jeff Myers started reviewing papers for the Young Investigator Award. Since then, he has annually provided leadership for the award selection process and also supported the award monetarily. His involvement has been so important that the award name was changed by the Space Medicine Association (SMA) to the Jeff Myers Young Investigator Award. "At Toronto, I felt that this would be a keen way to gain more experience and learn more about the science and current research in Aerospace Medicine. It really was and is an excellent method for that, but I discovered so much more! Learning about the challenges that these Young Investigators have faced and overcome has deeply touched my heart and soul." After his first year, he could never stop working, supporting, leading and funding year after year. "Over the years it has been so rewarding to follow the careers of these Young Investigator winners and finalists as they became leaders in AsMA and the field of Aerospace Medicine, winning Awards, becoming Fellows, and even themselves training new generations of Young Investigators."

Dr. Myers was deeply moved when the SMA decided to add his name to the title of the Award. "I think there is no honor I could ever receive that would mean more to me." He recently noticed that a number of his friends and colleagues had begun Foundation endowments to benefit scholarships and other programs that support the Foundation, AsMA members and activities. This example helped him realize that an endowment would be a great idea to assure funding for the Young Investigator Award and the aerospace medicine field in perpetuity. "I truly believe these young people are our future. Whatever your chosen cause or causes are within AsMA, I encourage everyone who is able (when they become able) to think about starting a fund or endowment through the Foundation." While this fund was created and initially funded by Dr. Myers, others are welcome to support it and encourage its growth.

DR. MARK CAMPBELL NAMED TO THE FOUNDATION BOARD OF DIRECTORS

At the recent AsMA Foundation Board meeting in Reno, NV, Mark Campbell, MD was named as an additional member of the Board and will serve an initial three year term. The Board increased the number of members to increase the breadth of the Board and broaden the representation from the field. Dr. Campbell is an active general surgeon practicing in Paris, TX. He formerly served as a flight surgeon at the Johnson Space Center and is a pilot. He represents many AsMA constituencies including the Space Surgical Association, Society of NASA Flight Surgeons, and the Space Medicine Association. He has a long track record of supporting young members of AsMA through AMSRO, and he and his wife Betsy recently established the Mark and Betsy Campbell Endowed Fund to support the Space Surgical Association's Future Researcher Award. This fund will encourage and support in perpetuity AsMA's young members as they study and develop future space operative capability. Dr. Campbell is an outstanding addition to the Foundation Board.

TREASURER'S REPORT

The Foundation fund balances have retained power to support the association despite the weak stock market performance, thanks to the generosity of Foundation donors and the initiation of several new funds in 2022. Investment performance shows a drop in value of less than 15% as of this letter, however all donations for the year have been kept in cash accounts to preserve capital until the market stabilizes.

The Foundation has greatly appreciated the addition of the Dr. Mark and Betsy Campbell Fund supporting Aerospace Surgery Scholarship, the Dr. Jeffrey Myers Fund supporting the SMA Young Investigators Award, and the SMA JB Charles Fund supporting a scholarship honoring the life and work of Dr. John Charles. Contact Kim Broadwell, Foundation Chair, if you too 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.

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 too by going to asmafoundation.org, Ways to Give, PayPal. Your donation can go to a specific fund or to unrestricted fund which supports among others the annual Fellows Awards. Donations to the Foundation can now be given through the PayPal Giving Fund without any fees. You can paste url below to your browser and it will take you to the AsMA Foundation site where you can make a tax-deductible contribution supporting aerospace medicine scholarships and awards.

<https://www.paypal.com/us/fundraiser/charity/1432022>

This year the AsMA Foundation provided over \$11,000 in scholarships and awards benefiting 11 very deserving awardees.

Awardee	Amount	Fund	Scholarship/Award
Harris, Katie	\$500	SMA	SMA JBC Scholarship (NEW)
Baraka, Ahmed (Increased)	\$1250	General/Belland	AMSRO Diversity Scholarship
Ganguly, Shipi	\$500	ASAMS	Charles Berry Scholarship (NEW)
Lester, Harriet	\$1250	Tredici	Thomas Tredici Award
White, Deborah	\$2512	Goldenrath	Goldenrath Award

Stratton, Emily Scholarship	\$250	SNFS	Society of NASA Flight Surgeon
Tucci, Victoria	\$1000	Mantri/Belland	Anita Mantri Scholarship
Tucci, Victoria	\$750	SMA	SMA Undergraduate scholarship
Diaz, Thomas	\$500	SMA	SMA Davis scholarship
Kutz, Craig	\$500	SMA	SMA KBR Ellis Scholarship
Church, Lauren	\$750	Mohler	Stanley Mohler scholarship
Torrinha, Goncalo	\$750	SMA	SMA International Scholarship

ANAHPS ANNOUNCES THE MARY F. FOLEY ENDOWMENT THIRD ANNUAL EVENT ON LEADERSHIP OF WOMEN IN AEROSPACE MEDICINE

Planning is underway for the third Mary F. Foley Endowment panel for the AsMA 93rd annual scientific meeting in New Orleans. The Foley endowment was established to honor the contributions of Mary Foley, a nurse, AsMA Fellow, commercial and instrument-rated pilot, life member of the 99's and a certified aerospace physiologist and to perpetuate her legacy by encouraging other women to follow in her footsteps.

This year's theme will be "The Evolution of Clinical Contributions of Women in Operational Missions: Lessons on Leadership." The panel will be categorized as educational and will serve to mentor attendees who can learn and emulate the leadership qualities of the women who are profiled.

Among exceptional leaders to be profiled will be Florence Nightingale. In addition to her role as a nurse caring for disease infested British soldiers in the Crimean War, Florence established the foundation for sanitation and reformed health care by bringing the principles of public health to national attention and created the foundation for the profession of nursing.

Other leaders who had impact of operational significance will be profiled, including operational leadership of women in WWI, Vietnam, Afghanistan and Operation Desert Storm. We will complete the panel with a tribute to our own Cathy Dibiase, clinical nurse for NASA, by profiling her operational contributions and substantial leadership during the U.S. Shuttle era. Cathy provided pre-flight and post-flight recovery care to astronauts during Shuttle missions and missions to the International Space Station.

The AsMA Foundation is pleased to announce that the Mary F. Foley Endowment Fund has reached \$18,000. Proceeds from the endowment are used to support this annual leadership event which will

be submitted to the scientific program committee for acceptance. The event will create visibility, benefit AsMA membership and portray the diversity of Mary's participation and contributions to many aspects of aviation medicine. The panel will add an invaluable mentoring opportunity for personal leadership development for AsMA's membership.

Endowment funds will also be used to support marketing, membership, and social media initiatives to fortify the membership of ANAHPS. Since annual proceeds from the fund are limited and based on the fund's corpus balance, additional investments and contributions to assist in these efforts to recognize women and facilitate leadership development are greatly appreciated. Anyone who would like to support these initiatives can designate gifts to the Foundation's Mary F. Foley Endowed Fund. Many thanks to all who have already contributed. Marian B Sides, PhD, MSN, FAsMA, Past President AsMA

2021 ASMA FELLOWS SCHOLARSHIPS WINNERS

The 1st Place Winner was Elizabeth Combs for her presentation and published manuscript on "Physiological and Cognitive Performance in F-22 Pilots During Day and Night Flying." The 2nd Place Winner was Dr. Marion Venus for her presentation and manuscript on "Short and Long Haul Pilots' Rosters, Stress, Sleep Problems, Fatigue, Mental Health, and Well-Being."

The 2022 AsMA Fellows Scholarship process proceeded as planned. Eleven candidates delivered presentations during the 2022 scientific meeting in Reno, NV, and were evaluated by a group of Fellows in attendance. We really appreciate the Fellow volunteers who make this process possible. The next step for the Scholarship Committee is to evaluate these candidate's corresponding manuscripts that are accepted for publication in the AMHP journal by the October 31, 2022 deadline.

The Fellows Scholarship is funded by the AsMA Foundation through the generous support of AsMA Fellows and members. The awards are 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. Scholarship recipients 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). The scholarship committee gives special consideration to applicants who are at an early stage in their career development. The scholarship monetary awards are used for the purpose of underwriting, in whole or in part, the cost of registration fees, transportation, hotel accommodations, or any other valid fees or expenses incurred by the

winner in relation to their attendance at one or more scholarly meetings on topics related to aerospace medicine.

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

2022 RICHARD “DICK” TRUMBO 5K PREVENTIVE MEDICINE FUN RUN/WALK HELD ON MONDAY, MAY 23, 2022 IN RENO, NEVADA

The 21st Annual Richard “Dick” Trumbo 5K Preventive Medicine Fun Run/Walk was held on Monday, May 23, 2022 in Reno, Nevada on scenic Virginia Lake course. This venue was just a pleasant cool early morning walk from the host Peppermill Resort. This event had historical significance since the inaugural Trumbo Run/Walk was held in Reno 21 years ago. This event has been generously supported by a Foundation Endowed Fund established by Peggy Trumbo and the friends and colleagues of Dr. Trumbo.

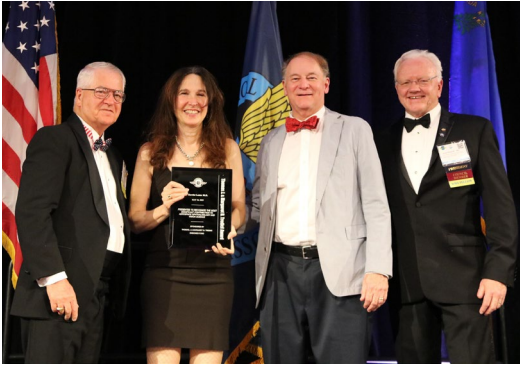


While everyone who participated in the Run/Walk was a winner, this was a very competitive field and the race winner in the men’s division was Jared Price. Karen Ong led the female competitors and also finished third overall in the event. Men’s runners finishing second and third were Alex Wolbrink and Sheryas Iyer, while the women’s second and third place went to Abigail Vargas and Joanna d’Arcy.

We hope you will be able to attend the AsMA 93rd Annual Scientific Meeting, and we also hope many of you will choose to celebrate the 22nd anniversary of the AsMA 5K Fun Run by joining the Richard “Dick” Trumbo 5K Preventive Medicine Fun Run/Walk in New Orleans.

WINNERS ANNOUNCED FOR THE 2020 AWARDS SPONSORED BY ASMA FOUNDATION ENDOWED FUNDS

THOMAS J. AND MARGARET D. TREDICI AWARD – HARRIET LESTER, M.D., FASMA, FCAMA, FAAO



Harriet Lester, M.D., FASMA, FCAMA, FAAO is the 2022 recipient of the Thomas J. and Margaret D. Tredici Award given for the most significant contribution to aerospace ophthalmology and vision science. Dr. Lester received the Tredici Award for her long-term efforts to raise safety awareness focused on aerospace ophthalmology and human factors. She has served for 21 years as an FAA subject matter expert in ophthalmology and vision science. Dr. Lester has provided leadership in vision science for AsMA and ICAO while also serving as regional chair of the FAA Laser Strike Workgroup and Instructional Course. She has been instrumental in creating aerospace ophthalmology panels for AsMA and many other international organizations. This award is supported by the Foundation through the Thomas J. and Margaret D. Tredici Endowed Fund in Aerospace Ophthalmology.

WALTER AND SYLVIA GOLDENRATH AWARD – DEBORAH J. WHITE, PH.D., CASP, M.B.A., M.A.



Deborah White, Ph.D., CASP, M.B.A., M.A. received the 2022 Walter and Sylvia Goldenrath Award that is presented for the most significant contribution in aerospace physiology. Dr. White was honored for her contributions to physiology and human performance in aviation and undersea research and their respective operational communities. Her work led to improvements in the detailed assessment of human error in naval mishaps and addressed the antigravitational countermeasures for women in aerospace environments. She was instrumental in evaluating hypobaric oxygen-rebreather systems and noise-reducing stethoscopes for military applications. This led the aerospace physiology career field providing management to over 100 naval physiologists. The Goldenrath award is supported by the Walter and Sylvia Goldenrath Endowed Fund that was created to honor and highlight his unmatched career accomplishments as an aerospace physiologist.

ANITA MANTRI, Ph.D., MEMORIAL TRAVEL SCHOLARSHIP-VICTORIA TUCCI



Victoria Tucci was awarded the Anita Mantri Memorial Travel Scholarship. She is completing the final year of an Honors Bachelor of Health Sciences program at McMaster University in Ontario, Canada. After graduation, she plans to pursue a medical degree. She is intrigued by the potential for innovation and exploration regarding human health in space and is interested in finding solutions for medical care delivery in space and the potential impact on healthcare delivery on Earth. She is currently completing research on the intersection of healthcare and artificial intelligence in terms of autonomous medical advisory systems. Her ultimate goal is to better understand the factors that impact the health and wellness of those experiencing the challenges of remote and extreme environments. She hopes to help find ways to support and provide sustainable and quality healthcare in these settings, and explore how technology like artificial intelligence can play a role.

Victoria is also active in the field as an aerospace medicine researcher at AdvancingX, Inc., a global leader in astronaut training, research, technology development, and STEM programming. She develops risk mitigation strategies for extreme environments in hope that her findings will translate to health maintenance of astronauts in space. She also works as the Global Project Manager and as a Career Astronaut Liaison for AdvancingX, Inc. She shared her research as a presenter at AsMA's 92nd Annual Scientific Meeting. She works to make opportunities in the space sector more accessible for students by working with NASA as a Canadian National Program Coordinator for the Scientist for a Day space outreach initiative, and is the inaugural leader of the Canadian Society for Aerospace Medicine Student and Resident Subgroup (CStaRS). As an active member of AsMA, AMSRO, Space4Women Network, and the Women in Aerospace Medicine Association, she collaborates with others to contribute to forward-thinking and creative approaches to health-related challenges in space. The Mantri Award honors the life of Dr. Anita Mantri who was a student leader in the MD/PhD program at Texas A&M when she was fatally injured in an automobile accident. The Award is funded through a permanent endowment created by the Mantri family.

STANLEY R. MOHLER, MD, AEROSPACE MEDICINE ENDOWED SCHOLARSHIP: LAUREN CHURCH



Lauren Church received the 2022 Stanley R. Mohler Award that provides training grants and awards to help students and residents early in their aerospace medicine training and fund their studies or research activities. She is a final-year medical student at Kings College London, London, UK, working on her M.B.B.S. She holds an M.Sc. in Physiology and Health from King's College. From 2017-2020, she served as a Team Mentor and Biomedical Payload Development Associate at the International Space School Education Trust and

served an Internship at the Laboratory for Equilibrium Investigations and Aerospace (LEIA), University of Antwerp from January to March 2022. Her research experience includes a study on metabolic phenotypes in HIV and Hepatitis C mono- and co-infection, studying intra-voxel incoherent motion MRI for the prediction and treatment of cancer. She has also participated in

payload development at Kennedy Space Center, a literature review and article on non-invasive monitoring of spaceflight-associated neuro-ocular syndrome, and a research project on brain changes in spaceflight. She was involved in a quality improvement project at Evelina Children's Hospital for ensuring that the gold standard asthma protocol was followed for children presenting to the emergency department.

Lauren has five publications and 14 presentations. She is a member of the Royal Aeronautical Society, King's College London Aviation and Space Medicine Society, the National Undergraduate Aerospace Medicine Conference Organizing Committee, King's College London Radiology Society, UK Students for the Exploration and Development of Space, AMSRO, and AsMA. Her awards include King's College London Student Opportunities Fund Scholarship Award in both 2019 and 2020, the Mars Generation 24 Under 24 Leaders and Innovators in STEAM and Space in 2020, and the King's College London Future Alumna Award in 2020. The Mohler Award is supported by an endowed fund supported by Dr Mohler's friends, family, and colleagues and honors his lifetime of achievements in the field of aerospace medicine and education.

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 \$612,000. 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. These funds include:

Fund Name

Stanley R. Mohler Fund
Walter and Sylvia Goldenrath Fund
Thomas and Margaret Tredici Fund
Richard B (Dick) Trumbo Fund
Mary Foley Fund
Anita Mantri Fund
Jeffrey Myers Fund
Kris M. Belland Fund
Mark and Betsy Campbell Fund

Fund Supports

Scholarships
Aerospace Physiology
Aerospace Ophthalmology
Trumbo Preventive Medicine Activity
Leadership Events for Women in Aerospace
AMSRO Mantri Travel Scholarship
SMA Young Investigator Award
Unrestricted-Mantri and Diversity Scholarships 2022
SSA Future Researcher Award

Richard and Issy Jennings Fund	Unrestricted
Society of NASA Flight Surgeons Fund	Scholarships and Awards
Space Medicine Association Fund	Scholarships and Awards
ANAHPS Louis Marshall Fund	Scholarships, Research, and Training in ASN
ASAMS Fund	Scholarships, Research, Education, Travel

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 (eabopp@comcast.net). 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:

- Credit Card donations
- Donations can be made by pushing the Donate Now button on the Foundations web page – <https://asmafoundation.org>
- Donations through PayPal
- Donations of stocks and securities
- Donations of Charitable Gift Distributions
- Donations by check using the form below
- AsMA members may also consider joining the Heritage society and include the Foundation in their estate planning or by designating future gifts

CONTACTING THE FOUNDATION

AsMA FOUNDATION

320 S. HENRY ST.

ALEXANDRIA, VA 22314

I’ve learned that you shouldn’t go through life with a catcher’s mitt on both hands; you need to be able to throw something back. *Maya Angelou*

Thank You for Supporting the AsMA Foundation

Donation Amount: _____

Purpose of donation? _____

Name: _____

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My check payable to the AsMA Foundation is enclosed

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Please Charge my credit/debit card

Card Number _____

Exp Date _____

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Signature: _____

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