# AEROSPACE MEDICAL ASSOCIATION FOUNDATION NEWSLETTER

Volume 18 / Spring 2023

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# Notes from the Chair

Greetings of Spring to all the loyal supporters of *your* AsMA Foundation. It's a toss-up whether to first mention the raucous financial markets or the tumultuous weather, so I'll jump to the important part. Thanks to everyone who has continued to help us nurture the future of aerospace medicine. Of course, the future is *people*, the professionals drawn to our field with stars in their eyes and acceleration on the mind. One of the Foundation's main missions is to help them get there.

Many thanks to Dr. Phil Scarpa for answering this call recently and establishing an endowed fund to support those early in their careers or in need of financial aid to reach their goals. His generosity is highlighted below in our newsletter, and I hope it will inspire others to follow him. Bravo, Phil.

As always, the Foundation strives to improve what it can accomplish. In many cases, awards established to help people attend the annual meeting have been eclipsed by the inflation and spikes in expenses that we are all familiar with. It is through the continued support of donors like *you* that we can meet this challenge. You meet colleagues, mentors, contacts, and future lifelong friends at the annual meeting, and giving the next generation the same experience is one of our primary tasks.

Please enjoy this newsletter and its highlights honoring those who have financially supported the specialty in 2022 and noting the exciting things being done with your donations. And don't forget to help us stay on track to do more—donate by mail or our website (<a href="www.asmafoundation.org">www.asmafoundation.org</a>) that allows a fee-free (to us) donation via PayPal, making your donation go even further.

Best of all, get ready for an announcement of even bigger things to come for the Foundation and those we serve. The countdown to launch has begun...

See you in New Orleans! Blast-off to beignets in May!

David K. Broadwell, Chair, AsMA Foundation

### THE ASMA FOUNDATION THANKS THE 2022 DONORS

The Foundation supports AsMA with scholarships, awards and educational/research opportunities in aerospace medicine and its allied fields through the generosity of members and friends of AsMA. In 2022, 152 individual donors supported the Foundation and contributed \$63,000 to constituent organization endowed funds, named endowed funds, and unrestricted use. Three names were added to the Foundation Heritage Society. We wish to thank the following individuals for helping the Foundation support the Association, aerospace medicine and the allied fields in 2022. 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+)**

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#### Saturn V (\$5,000+)

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#### Titan (\$2,500+)

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**Space Medicine Association** 

#### **Redstone (\$500+)**

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#### X-15 (\$100+)

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#### HERITAGE SOCIETY MEMBERS

The Society 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. Broadwell or any of the Board members.

Charles Billings\* Genie Bopp David K. Broadwell Jeffrey R. Davis Walter and Sylvia Goldenrath\* Richard Jennings Al Parmet Jim and Sandy Vanderploeg \*deceased

## FOUNDATION TREASURERS REPORT FOR YEAR ENDING 2022

The AsMA Foundation continues stewardship of funds for both Fellows Scholarships and for the scholarships and awards given by multiple AsMA constituent organizations. Assets on December 31, included \$63,308 in 2022 donations and assets totaled \$657,175 at year end. Continued contributions from donors throughout the year as well as during AsMA meeting registration help to secure the future funding of scholarships, awards, research opportunities, and support for some AsMA activities. Donations through registration for 2022 totaled \$2,805 and many thanks go to AsMA for making this convenience possible.

The total balance includes assets held for affiliated and constituent organizations and for specific endowed funds. There are now 16 individual funds within the Foundation in

addition to the unrestricted fund that supports the Fellows awards and many other activities. The Fund balances as of Dec 2022 are as follows:

Stanley R. Mohler Fund	\$23,217
Space Medicine Association Fund	\$49,128
Society of NASA Flight Surgeons	\$15,839
Walter & Sylvia Goldenrath Fund	\$125,116
Jeffrey Myers Young Investigator Fund	\$ 9,608
Thomas J. & Margaret D. Tredici Fund	\$46,147
Kris M. Belland Fund	\$36,913
ANS Louise Marshal Fund	\$16,953
Richard B. and Peggy Trumbo Fund	\$15,553
Richard and Issy Jennings Fund	\$51,336
Anita Mantri Memorial Fund	\$10,049
American Society of Aerospace Med Specialists	\$24,112
Mary F. Foley Fund	\$17,937
Mark and Betsy Campbell fund	\$9,724
John B. Charles Scholarship Fund	\$12,995
Philip J. Scarpa Fund	\$19,215

Each of these funds have guidelines specific to the fund that determine the scholarships, awards or general purposes for fund use. Tufton Capital provides independent, professional management of the investment portfolio for the Foundation's assets to limit volatility and provide a sound basis for the future of the Foundation. Tufton Capital and Watts Group accountants reported a negative 8.02 total return on investment for 2022. The Foundation's asset allocation remains conservative to assure retention of capital with adequate annual income to assure scholarship and award distributions in varying market conditions.

The most recent funds added to the Foundation Portfolio include the JB Charles, the Mark and Betsy Campbell fund added in 2021, and the Philip Scarpa and Jeffrey Myers Funds added in 2022. The JB Charles fund was initiated in 2021 as a fund within the Space Medicine Association Fund designed to honor the contributions of Dr. Charles to AsMA, the SMA and the discipline. Small contributions from many of John's colleagues and friends quickly added up, reached the \$10,000 endowed level and continued to grow. The SMA transferred the donations specific to this purpose to a separate fund in 2022. The JB Charles research scholarship will continue to be administered by the Space Medicine Association.

Genie Bopp, Treasurer

#### AWARD DISTRIBUTIONS

Scholarships, awards, and grants in 2022 totaled \$13,512.

Scholarship/Award	Awardee	Amount
Fellows First Place award	Bonnie Posselt	\$2000
Fellows Second Place award	Thomas J. Abitante	\$1000
AMSRO Trailblazer Scholarship		
(Funded in 2022 by unrestricted and Belland funds)	Ahmed Baraka	\$1250
American society of Aerospace Medicine Specialists (ASAMS)		
Charles Berry Scholarship	Shilpi Ganguly	\$500
Thomas Tredici Award	Harriet Lester	\$1250
Walter and Sylvia Goldenrath Award	Deborah White	\$2512
SNFS Scholarship	Emily Stratton	\$250
Anita Mantri Memorial Travel Scholarship		
(Supported in 2022 by the Mantri and Belland funds)	Victoria Tucci	\$1000
Stanley Mohler Scholarship	Lauren Church	\$750
Space Medicine Association (SMA) KBR scholarship	Craig Kutz	\$500
SMA Undergraduate Dervay Scholarship	Victoria Tucci	\$750

SMA Davis Scholarship

SMA John B. Charles Scholarship

SMA International Award

Space Surgery Assoc Future Researcher Award

(Supported in 2022 by Mark Campbell)

Space Medicine Association Young Investigator Award

(Supported in 2022 by Jeffery Myers)

Anna Wojdecka

### 2022 ASMA FELLOWS SCHOLARSHIPS WINNERS



1<sup>st</sup> Place Bonnie Posselt

The 1<sup>st</sup> Place Winner was Bonnie Posselt for her presentation and published manuscript on "Human Performance Using Stereo Symbology in a Helmet Mounted Display & Association with Individual Stereoacuity."

The 2<sup>nd</sup> Place Winner was Thomas Abitante for his presentation and manuscript on "Peak Hip Reaction Forces During Neuromuscular Electrical Stimulation of the Thigh Muscles".

2<sup>nd</sup> Place Thomas Abitante

\$500

\$500

\$750

\$1000

\$1000

The 2022 AsMA Fellows Scholarship process proceeded as normally planned. There were twelve candidates who delivered their presentations during the 2022 scientific meeting in Reno, NV, and were evaluated by a group of Fellows in attendance. The next step for the Scholarship Committee was to evaluate the corresponding manuscripts from 6 final candidates which were 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 winners 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

# THE SPACE MEDICINE ASSOCIATION ESTABLISHES THE JOHN B. CHARLES RESEARCH FELLOWSHIP

AsMA members were saddened by the untimely passing of Dr. John B. Charles in February, 2021. A longtime member of AsMA, former council member, chair of the history committee, and former president of the Space Medicine Association (SMA), John made significant contributions to the practice of Space Medicine with his research and leadership. He was a mentor and friend to countless AsMA members. John was a scientist, researcher, diplomat, leader, space nerd, environmentalist, historian, and an introvert who could easily have been a comedian. Those who knew John remember him for his kind and generous nature, his fantastic sense of humor and incredible memory. John was always glad to see you and make you feel seen. He will be greatly missed.

To honor Dr. Charles' leadership and scientific contributions to Space Medicine, the SMA established the JB Charles Research Scholarship which will be awarded at the annual SMA luncheon. John's friends and colleagues have already donated over \$10,000 to get it started. John devoted his life to space medical research-please consider honoring him with a gift to this fund to assure that it can be given in perpetuity.

Did you know that donations to the JB Charles Fund or any of the other Foundation scholarship funds through PayPal are quick and easy? PayPal enables credit card donation with or without a PayPal account. Donations can be sent to any of the funds by specifying the Fund name in the notes of your donation. Just visit <a href="https://www.asmafoundation.org">www.asmafoundation.org</a>, Ways to Give, and click the DONATE NOW button. An important new PayPal feature has arrived: if you do have a PayPal account, you can choose to give through the AsMA Foundation Paypal.com/giving fund which will be transferred to the Foundation with no fees.

#### PHIL SCARPA CREATES ENDOWED SCHOLARSHIP FUND

Former AsMA President, Phil Scarpa, M.D., M.S., has generously funded a new endowment to provide scholarships to support travel costs to attend the AsMA annual scientific meeting. The scholarship selection criteria give priority to those with financial need, first time attendees and those early in their careers. The final selection of the recipient(s) will be made by the AsMA Executive Committee. Dr. Scarpa has said that he hopes that, "the scholarship will provide some funding to those in need in order to attend the AsMA annual scientific meeting in person with a focus on their need versus accomplishments. I hope that this grant can make a difference in their lives and strengthen their interest and resolve for AsMA and aerospace medicine."

The initial annual scholarship will total \$1000, but hopefully the amount and number of grants will increase as funds in the endowment grow. Anyone that shares Dr. Scarpa's hope for this important scholarship is welcome to add to the endowment.

# ANAHPS ANNOUNCES THE THIRD ANNUAL MARY F FOLEY ENDOWMENT EVENT ON LEADERSHP OF WOMEN IN AVIATION AND SPACE MEDICINE

A panel entitled "The Evolution of Clinical Contributions of Women in Operational Missions in Aerospace Medicine: Lessons on Leadership will be held at the annual scientific meeting in New Orleans. The panel will model exceptional women who distinguished themselves through perseverance, adversity, courage and determination. Presenters will portray the qualities and virtues that shaped their careers and chartered their professional journeys.

The Mary F Foley Foundation Endowment was established in her honor to perpetuate her legacy and to encourage other women to follow in her footsteps. This panel will recognize the diversity of her achievements, including her curiosity and intrigue for air travel of patients. In 1956 she traveled around the world meeting with airline medical directors, stimulating interest and creating awareness of patient care in air transport. From this venture, she created the first guide on the care for patients in air travel.

This panel will highlight the legacies of six pioneer women whose clinical contributions in operational missions have created new pathways for readiness in aerospace medicine. We will hear of the pioneering initiatives of Florence Nightingale, a nurse, who introduced the concept of sanitation while caring for disease infested British soldiers during the Crimean War. We will hear of the bravery and exceptional leadership of Major Margaret C MacDonald, highest ranking woman in the British Empire, and a historical figure in the Canadian Expeditionary Force. Presenters will edify Major Sandy Nestor, MEDEVAC nurse, USA, in Afghanistan, featuring Cross-Disciplinary Critical Care Air Transport Teams, optimizing patient care in most extreme environments. The panel will profile Dr. Elizabeth Bridges, nurse scientist, whose research and combat casualty care illuminated our scientific knowledge base about the impact of the aerospace environment on patient care. The panel will honor the heroic bravery of Captain Mary T Klinker, Air Force flight nurse, who died on board the Operation Baby Lift C-5 Galaxy that was carrying Vietnamese orphans to the USA when it crashed on takeoff. The panel will culminate with a tribute to Cathy Dibiase, clinical nurse for NASA-KSC, by profiling her operational contributions, clinical research, and stellar leadership during the U.S. Space Shuttle era. This panel will offer illuminating insights, inspiration, mentoring tips and opportunities in leadership development for AsMA membership.

The AsMA Foundation recognizes the continuous growth of the Mary F Foley Endowment Fund which has reached nearly \$19,000. 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 to 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 are 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.

Marian B Sides PhD. MSN, FASMA, Past President AsMA

# SARAH WRIGHT NAMED TO RECEIVE THE INAUGURAL SPACE SURGERY ASSOCIATION FUTURE RESEARCHER AWARD

Sarah Wright, MD, received the Space Surgery Association Future Researcher Award for 2022 (\$1000.00). The Space Surgery Association Award is funded through the Mark and Betsy Campbell endowed fund. In 2021, Dr Campbell and his wife Betsy signed a landmark agreement with the Foundation creating and funding the Mark and Betsy Campbell Endowed Fund to support the SSA Future Researcher Award but provided additional funds for this initial Award to augment the Fund's earnings. Dr. Wright received her bio-engineering degree from California Institute of Technology and her MD from the Uniformed Medical Services. She is now a 2nd year surgical resident at Walter Reed Medical Center. She has already received several awards, including the Navy League Award, and has been a coauthor on seven peer-reviewed scientific papers. She received training in US Navy Dive medicine, the medical effects of ionizing radiation, and completed a space medicine clerkship at JSC. She recently presented on the subject of crew medical officer capabilities for a Mars Expedition. She has a future interest in optimizing adverse event outcomes through adopting military transfusion techniques to space medicine.

# AEROSPACE MEDICINE STUDENT & RESIDENT ORGANIZATION ANNOUNCES 2022 DIVERSITY SCHOLARSHIP WINNER



Ahmed Baraka

Congratulations to Ahmed Baraka, BPharacy, the 2022 recipient of the AMSRO Diversity Scholarship. He leads the COVID-19 Vaccination Clinic, at Shoubrakhit General Hospital and serves as consultant of space life science at the Egyptian Space Agency (EgSA). He is a clinical pharmacist and (part-time) hospital manager at Ahmed Abdul Aziz hospital, Alexandria, Egypt. Formerly, he served as a teaching associate in the space sciences department at the International Space University (ISU) in Granada, Spain. Ahmed is pursuing a master's degree in biotechnology, and he has interest in genetics, neuroscience, space neuroscience, and space sciences. Currently, Ahmed serves as the regional coordinator for the Middle East for the Space Generation Advisory Council (SGAC) and is a former

regional communications manager for the Middle East. He is a member of the national steering committee for the upcoming AMADEE mission in Egypt (Mars analog mission), member of the technical committee for the first Egyptian Lunar Mission and a member of The International Astronautical Federation (IAF) Space Life Sciences Committee. He chairs the International Outreach Committee for AMSRO and is the founder and president of the AMSRO regional chapter in Alexandria, Egypt. Additionally, Ahmed worked on several projects dedicated to space medicine and human space exploration such as the space medicine program for Egypt in coordination with the Egyptian Space Agency (EgSA) and the French Space Agency (CNES). He has been involved in creating the first Mars/Moon analog station in the western desert of Egypt in coordination with EgSA and the Austrian Space Forum (OeWF) and establishing a roadmap to enable Africa to have sustainable human spaceflights by 2030. He received the African Space Leaders Award from the Space Generation Advisory Council (SGAC) in recognition of these efforts. He has been selected as the recipient of the 2021 Space Medicine Association International Scholarship and was selected to be one of the IAF Emerging

Space Leaders Grant recipients for 2021. Recently he has been classified in the African Space Industry Top 10 Under-30 Class of 2021. Ahmed is an active member of several professional organizations including AsMA, AMSRO, the Space Medicine Association (SMA), the Planetary Society, the Mars Society, the SGAC, the Moon Village Association, Society for Neuroscience, the Egyptian Pharmacist Syndicate, and Alexandria Syndicate of Pharmacists. The AMSRO Diversity Scholarship was supported in 2022 by unrestricted donations to the Foundation and the Kris Belland endowment.

Please direct questions about the AMSRO Scholarship Program to <a href="mailto:AMSRO.Diversity@gmail.com">AMSRO.Diversity@gmail.com</a>.

# PLANS FINALIZED FOR THE RICHARD B. "DICK" TRUMBO PREVENTIVE MEDICINE RUN/WALK IN NEW ORLEANS



Plans are complete for the Richard "Dick" Trumbo 5K
Preventive Medicine Fun Run/Walk scheduled for 6:00
AM on Monday, May 22, 2023 in New Orleans. Jeffrey
Sventek, Executive Director of AsMA, and the advanced
planning team have developed a course adjacent to the
Red River in Woldenberg Park that is only a short walk
from the host Sheraton Hotel. The advanced planning
committee has arranged with a local team to provide race
logistical support, and the UTMB Aerospace Medicine

program will provide commemorative shirts and medical support.



The Run/Walk has been a part of the AsMA scientific meeting for over 20 years, and Dr. Trumbo was the consistent early supporter of the event. The Run/Walk is partially funded through the Foundation by an endowed fund that has been generously supported by Peggy Trumbo and friends and colleagues of Dr. Trumbo.

We hope you will be able to attend the AsMA 93<sup>rd</sup> Annual Scientific Meeting and also hope many of you will choose to celebrate the 21st anniversary of the Trumbo 5K Fun Run/Walk.

### FOUNDATION BOOTH IN NEW ORLEANS

The AsMA Foundation will be hosting a booth in the display area at the annual scientific meeting in New Orleans. Members of the Board will periodically staff the booth and hope to answer any questions from the AsMA membership and attendees. We seek input from members regarding needs the Foundation may address or suggestions to improve the Foundation's function in the future.

### SUPPORTING THE ASMA FOUNDATION

The AsMA Foundation supports aerospace medicine and its allied fields through scholarships, awards, grants, and other activities. Named individual and constituent organization endowed funds have been created to support awards, scholarships, and events in perpetuity, but unrestricted gifts are also appreciated. It is easy to support the Foundation: donations may be in cash, securities, bequests, life insurance, savings bonds, retirement plan assets, or real estate. Those that designate future gifts to the Foundation will be added to the Heritage Society if desired. Many types of gifts can limit tax liability, but it is prudent to consult a tax advisor. For more Foundation information, visit the <u>AsMA website</u>.

### **CONTACTING THE FOUNDATION**

AsMA Foundation 320 S. Henry St. Alexandria, VA 22314

No act of kindness, no matter how small, is ever wasted. Aesop

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