

Aerospace Medical Association 85th Annual Scientific Meeting

Exploring the Frontiers of Aerospace Medicine and Human Performance

Hilton San Diego Bayfront
San Diego, CA
May 10-15, 2014



Aerospace Medical Association 85th Annual Scientific Meeting

Exploring the Frontiers of Aerospace Medicine and Human Performance

Aerospace medicine is truly multi-disciplinary and international. Our annual scientific meeting is an opportunity to learn about the work of our colleagues from around the world, and to share the knowledge and wisdom which we gain in our day-to-day work and practice. It is a great way to learn from and expand the overall community of aerospace medicine.

The sessions for our 85th Annual Scientific Meeting will cover the latest findings in the fields of aviation, space, human performance, and environmental medicine and related fields such as aerospace nursing and aerospace physiology.

Based upon the responses to a survey provided at the end of the 84th Annual Scientific Meeting in Chicago, IL, our members indicated a need for more information in six major categories: 1) Human Performance/Human Factors, 2) Aerospace Medicine, 3) Travel Medicine, 4) Space Medicine, 5) FAA Medicals, and 6) Fatigue. We plan to focus the 85th Annual Scientific Meeting program in these six major categories. Challenges still exist in the Aerospace Medicine communities. Fatigue issues in aircrew and air traffic controllers, human performance problems in aviation and space operations, medical emergencies during commercial airline travel, and other operational aerospace medicine problems all point to challenges in practice guidelines, spatial disorientation, human systems integration, and safety for Aerospace Medicine. We encourage presentations from diverse experts that will enhance the world's knowledge and understanding of the current challenges in Aerospace Medicine and how we can optimize human performance under all forms of operational and environmental conditions.

AsMA 2014 is the forum for the latest information on health and human performance in aerospace environments.

The Program Committee, chaired by Daniel Weaver, M.D., M.P.H., has organized a balanced program of sessions on civil and military aviation medicine, travel medicine, space medicine, safety, and human performance.

Register online now at <http://www.asma.org/annual-meetings/registration> so you can learn about current trends in the aerospace medicine and human performance arena and meet with your colleagues. We hope to see you there.



Educational Objectives

Our meeting provides a forum for the exchange of information, knowledge, and advances in clinical, operational, and research efforts in aviation, space, and environmental medicine and their allied sciences, including human performance. The participant will:

- Understand the impact of evolving trends on the practice of aerospace medicine;
- Learn how to apply principles of evidence-based medicine, operational risk management, and aeromedical decision making in aerospace medicine operations;
- Learn about the analysis of causation of mechanical, human performance, and systems integration factors in aviation accidents;
- Review current fatigue research and assess air traffic controller and aviator performance and decision making;
- Understand and apply ethical principles to aerospace medicine decision making; foster competency in professionalism and systems-based practice in the application of aerospace medicine skills, teamwork, and interoperability in a multi-discipline professional environment.

Key Topics

- PTSD/TBI in USAF aircrew
- Diabetes and the flyer
- Aerospace Medicine Board Review
- Hypoxia, acceleration and high altitude medical issues
- Patient safety and transport issues
- Commercial spaceflight medical considerations
- Long-duration spaceflight/deep space exploration
- Human Systems Integration RDT & E
- Substance abuse in aviation
- Ethics – addressing ethical dilemmas in aerospace medicine
- Fatigue in aircrew
- Aviation safety in civil and military settings
- FAA Seminars for AMEs
- Australian, British, French, German, Ibero-American, and Multi-National Aeromedical panels

Education Benefits

- CME credits—The AsMA is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.
- The AsMA designates this live activity for a maximum of 24 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
- Nurses may receive CEUs from the Montana Nursing Association. Sessions available for credit will be identified in the program.
- MOC Available! Maintenance of Certification modules: Workshops, Panels, Slide AND Poster Sessions have been designated for MOC. At least 20 non-concurrent hours of MOC training will be available.





New This Year!

- The Aerospace Medicine Board Review series will review core topics in Aerospace Medicine and is designed to prepare Aerospace Medicine specialists for the ABPM re-certification exam. Topics are presented in three sessions each year by specialists in the field and adhere to the ABPM Study Guide outline which will be covered in its entirety over the course of three consecutive years. Combined with the annual RAM Bowl and Aerospace Medicine Grand Rounds sessions, these board review sessions will address the preventive medicine core and the four core knowledge areas of Aerospace Medicine: Flight Environment, Clinical Aviation Medicine, Operational Aerospace Medicine, and Management & Administration.
- Videotaping of sessions for enduring materials. Several sessions throughout the week will be videotaped and offered online to provide enduring CME and MOC opportunities.

Professional Development

Several sessions highlight professional development, one of the core competencies for maintenance of certification:

- Addressing Ethical Dilemmas in Aerospace Medicine
- Workshop on Aerospace Medicine Faculty Development

Other Benefits

- Networking with Peers
- Scientific and Technical Exhibits
- Constituent and Affiliate Organization Luncheons and Awards
- Spouses Program

Special Workshops

1. HYPERBARIC MEDICINE & COMPREHENSIVE WOUNDCARE UPDATE Saturday, May 10, 9:00 A.M.- 3:00 P.M. 5 AMA PRA Category 1 Credits™

This workshop provides an update of the basic science principles and diagnostic methodology driving clinical woundcare practice, and a framework for decision-making in the use of evidence-based hyperbaric oxygen and woundcare therapeutics in the management of complex wounds. The workshop reviews wound healing physiology, integrating basic science principles and the role of oxygen in the setting of a variety of wounds including radiated tissue, burns, infection, and tissue reperfusion injury. A review of the clinical indications for hyperbaric oxygen therapy integrates related basic science principles, while emphasizing a comprehensive approach to patient selection, education, and safety. The workshop covers the management of hyperbaric oxygen therapy complications, including barotrauma and decompression illness, and includes a discussion of support service infrastructure options, as necessary, to ensure patient safety. A framework for wound assessment is provided, including wound characteristics as well as techniques for the evaluation of tissue oxygenation and vascular status. Evidence-based decision making in therapeutic wound treatments and debridement options is examined, in the context of case scenarios, the latest published peer-reviewed literature and ongoing research, and the dynamic environment of woundcare reimbursement. Presented by Takkin Lo, M.D., M.P.H., CWSP, ABPM/UHM.

2. AIRCREW FATIGUE: CAUSES, CONSEQUENCES, AND COUNTERMEASURES

Sunday, May 11, 9:00 A.M. – 3:00 P.M. 5 AMA PRA Category 1 Credits™

This workshop will outline the importance of addressing fatigue as a danger in aviation, the basic physiological mechanism underlying fatigue, and the most common causes of fatigue in air transport and other settings. Ways to recognize fatigue in operational environments and information about the efficacy of various countermeasures, including specific information about countermeasure techniques such as proper work/rest schedules, adequate sleep, napping strategies, rest breaks, circadian entrainment, stimulants, and others will be provided. Presented by Dr. John Caldwell and Dr. Lynn Caldwell.

3. AEROSPACE MEDICINE FACULTY DEVELOPMENT WORKSHOP

Sunday, May 11, 12:00 P.M. – 3:00 P.M. 3 AMA PRA Category 1 Credits™

The purpose of this workshop is to provide presentations on current topics of interest to faculty of Aerospace Medicine residencies and fellowships. These presentations may also be of interest to faculty of other Preventive Medicine residencies, including General Preventive Medicine and Occupational Medicine. The presenters are current faculty for Aerospace Medicine Programs. They will present topics aimed at improving teaching skills and providing proven methods for evaluating residents. Current and future faculty members may benefit from these presentations and are invited to attend. Continuing Medical Education (CME) and Maintenance of Certification (MOC) credit will be available for completion of this workshop. Organized by Col. Patrick Storms, USAF, MC, USAFSAM, WPAFB, OH, and presented by Patrick Storms, Rick Allnutt, Robert Johnson, Dean Olson, Tarah Castleberry, and Joseph LaVan.

Key Speakers



60TH LOUIS H. BAUER LECTURER
Lt. Gen. Thomas Travis, USAF, MC

Surgeon General of the Air Force,
Headquarters U.S. Air Force, Washington, DC
Topic: From Health Care to Health and Performance -
A Vision for the Future of Military Medicine

1ST EUGEN REINARTZ MEMORIAL LECTURE

John B. West, M.D., Ph.D., D.Sc.

Distinguished Professor of Medicine and
Physiology, School of Medicine,
University of California, San Diego

Topic: Severe Hypoxia:
Lessons from the Summit of Mt. Everest



49TH HARRY G. ARMSTRONG LECTURER

**Michael Bagshaw, M.B., B.Ch., MRCS, FFOM,
D.Av.Med., DFFP, FRAeS**

Topic: The Cabin Environment and Aircrew Performance

What does our meeting offer?

EDUCATION. OPPORTUNITY. NETWORKING.

Education is the primary objective of the Aerospace Medical Association's Annual Scientific Meeting. It is designed from meeting evaluation forms, periodic surveys, and abstracts submitted. The latest results are presented in sessions designed for aerospace medicine physicians in clinical practice and related research, aerospace physiologists, human performance specialists, and allied scientists. The scientific program will benefit residents, medical and graduate students, and advanced undergraduates who have an interest in aerospace medicine. Continuing education credits are available for participants. Professional development and the other core competencies as outlined by the American Board of Preventive Medicine will be highlighted throughout the meeting.

Opportunities are provided to learn about the latest products and services from our many technical and scientific exhibitors. Other opportunities include the three plenary lectures; our business luncheon where you have the opportunity to help govern our association; awards luncheons and banquets to honor the best and the brightest among your fellow professionals; and the spouses program, which is open to all spouses and friends of AsMA members.

Networking is perhaps the greatest benefit of our meeting because we bring together the experts from all aspects of the aerospace community. Ideas for research, careers, projects, and presentations are forged during our meeting. And the friendships made will last a lifetime.

Our Aerospace Medical Association is diverse, with 11 constituent and over 30 affiliate organizations, representing a wide range of endeavors and interests, including clinical and basic research, regulatory and administrative medicine, human performance, and many more. Our members ask the questions and seek the answers. Our members find the answers and apply them to the aviator, the astronaut, the regulatory body, the manufacturer. Our members contribute to the growing body of scientific aerospace knowledge and lead us in scientific advances.

Come to San Diego! Contribute to your association and meet your fellow aerospace professionals.

Spouses Program

The WING of AsMA, a volunteer spouse organization, sponsors a program to share cultural and educational experiences of the host city with old and new friends. There is a Hospitality Room, a Welcoming Reception on Monday, May 12, and a Luncheon on Wednesday, May 14. Two tours are planned:

TOUR #1 BUS TOUR OF SAN DIEGO

Tuesday, May 13

This tour will include the highlights and history of this multicultural old city, including the Gaslamp District and Horton Plaza in downtown, across the Coronado Bridge to Coronado with a stop at the famous Hotel Del Coronado to view the public areas and mini-museum of this 1880s jewel. We will then travel to Balboa Park and stop at Prado Restaurant for lunch on our own and a chance to briefly explore Balboa Park's many museums and gardens. We will finish our afternoon with a stop in historic Old Town for sightseeing and shopping.

TOUR #2 BUS TOUR TO LA JOLLA

Thursday, May 15

Thursday's tour will be a trip to La Jolla to enjoy the beautiful California coastline, the Sculpture Garden at the Contemporary Museum of Art, with a stop for lunch on your own in the Village along Prospect Street and a chance for a little shopping.

Hilton San Diego Bayfront

Enjoy magnificent San Diego Bay and city views from our lobby and 1,190 spacious guestrooms and 30 suites. Each room at the Hilton San Diego Bayfront has a bay view and features Hilton's Serenity Collection® bed and linens, the finest amenities and the latest technology. And true to Hilton tradition, exceptional service comes as effortlessly here as the tides ebb and flow. High-speed internet is included in every guest room. Inspirational local art throughout the hotel draws upon light, wind, and the San Diego Bay waterfront to create dramatic, uplifting spaces. With light hues, clean lines, and an awakened design, there is a flow and a pulse to everything.

Other highlights of the hotel include:

- San Diego's first and only saltwater hotel pool, located directly alongside San Diego Bay
- A 4.3 acre park and waterfront promenade with a lush variety of trees and plants
- Spa Aquazul and fitness center, a therapeutic ocean oasis offering an elaborate range of relaxation and renewal
- Direct access to biking, walking, roller-blading and boating along the San Diego Embarcadero and on San Diego Bay

Hilton San Diego Bayfront • 1 Park Blvd, San Diego, CA 92101 • 619-564-3333

A dedicated website is available to book your hotel room online: https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=10876580&utm_source=71485&utm_medium=email&utm_campaign=26782072. You may also call the Reservation Center at: 1-800-445-8667 and use the Group Code: AMAAC

SPECIAL AsMA ROOM RATES

U.S. government employees/military per diem \$139/night; all other attendees, \$165/night.

Website Reservations are preferred. If you feel uncomfortable in doing this, please call the Hilton San Diego Bayfront Hotel. Telephone Reservations will be accepted. A credit card is required to confirm/guarantee your hotel room. A deposit is required for the first night of your reservation.

DEADLINE FOR AsMA MEETING RATES

April 15, 2013 (Allow 7 days for confirmation)

ROOM CONFIRMATIONS

Upon completion of your reservation request, the hotel will e-mail or fax a reservation confirmation notice within 7 days.

CHANGES/CANCELLATIONS

Online reservations can be cancelled online 24 hours prior to arrival. If your reservation was made in writing, then make changes and cancellations directly with the hotel 24 hours prior to arrival. Individuals are requested to review their confirmation for the exact cancellation policy.

Climate for May

The weather in San Diego is fairly constant in May. The temperature range is from an average low of 60°F to an average high of 69°F. It will probably be partly cloudy and the chances of rain are likely at some time during the week.

Attention AsMA Members!

If you receive a paper copy of the journal in your mail box each month, **please bring your March Program issue** with you to the meeting this year. If you do not want to bring the Program issue, that's okay! You can pay \$10 to pick up a copy with your registration. The program will be available for free online and through the mobile app at the meeting. Note: Nonmembers and those who receive only the electronic version of the journal will be entitled to one copy of the program without charge.

Advance Registration Form

AEROSPACE MEDICAL ASSOCIATION 85TH ANNUAL SCIENTIFIC MEETING
 SAN DIEGO, CA, MAY 10-15, 2014

Information for our records:

Name _____ Degree/Credentials _____

Organization _____ Title _____

Street Address _____

City _____ State/Country _____ Zip Code _____

Email _____

Telephone Number _____ Fax Number _____

Please indicate if this is an address change to your AsMA Membership Record

Online registration is available at www.AsMA.org

You **must be an active member of AsMA** in order to register at the member fee.
 Registration fee does not include membership dues.

Are you a first time attendee, or new member? YES NO

If you are being funded by the U.S. DoD please indicate Branch: Army Navy Air Force Coast Guard

Registration Fee	Advance	At-The-Door	Registration Fee Remitted
<input type="checkbox"/> Member	\$420	\$520	_____
<input type="checkbox"/> Non-Member.....	\$695*	\$795*	_____
<input type="checkbox"/> Non-Member Presenter	\$595*	\$695*	_____
<input type="checkbox"/> Residents	\$300	\$300	_____
<input type="checkbox"/> Students	\$100	\$100	_____
<input type="checkbox"/> §FAA-AME Seminar.....	\$310	\$310	_____

***Go to www.asma.org to become a member and take advantage of the reduced registration rates, receive the official Aerospace Medical Association journal and other membership benefits.**

§Fee Covers AsMA overhead costs. CME credit for the FAA Seminar is free.
 Add *AMA PRA Cat 1 Credit(s)™* below and gain full access to the AsMA meeting and associated CME.

<input type="checkbox"/> Add Member <i>AMA PRA Category 1 Credit(s)™</i>	\$150	\$150	_____
<input type="checkbox"/> Add Non-Member <i>AMA PRA Category 1 Credit(s)™</i>	\$200	\$200	_____
<input type="checkbox"/> Add Member <i>AMA PRA Category 1 Credit(s)™</i> & MOC	\$200	\$200	_____
<input type="checkbox"/> Add Non-Member <i>AMA PRA Category 1 Credit(s)™</i> & MOC	\$250	\$250	_____

SUBTOTAL FOR REGISTRATION FEE _____

Fax registration form with credit card information to: **703-739-9652**

Payment must accompany form to be registered in advance (see reverse for workshops and events).

We strongly encourage online registration at www.AsMA.org.

Advance registration closes April 15. A \$50 administrative fee is applied to all cancellations. No cancellations or refunds after April 15.

Spouses who have registered with the Wing and require CME credits may do so at the AsMA Member fee.

Advance Registration Form

AEROSPACE MEDICAL ASSOCIATION 85TH ANNUAL SCIENTIFIC MEETING
SAN DIEGO, CA, MAY 10-15, 2014

Note: Workshops are Limited. Only one per day, per attendee. Register Early.

	Workshops	Ticket(s)	Fee
Saturday, May 10	9:00 am-3:00 pm Workshop #1 "Hyperbaric Medicine & Comprehensive Woundcare 2013 Update" (Accredited for 5 AMA PRA Cat 1 Credits™).....No. _____		@\$125 _____
Sunday, May 11	9:00 am-3:00 pm Workshop #2 "Aircrew Fatigue" (MAX 75) (Accredited for 5 AMA PRA Cat 1 Credits™)No. _____		@\$125 _____
Sunday, May 11	12:00 pm-3:00 pm Workshop #3 "Aerospace Medicine Faculty Development (Accredited for 3 AMA PRA Cat 1 Credits™)No. _____		@\$75 _____

	Events	Ticket(s)	Fee
	Additional Program (Only for AsMA Members who receive their journal by mail)No. _____		@\$10 _____
Sunday, May 11	AsMA Welcome to San Diego (Note: All Attendees Must Have Tickets)No. _____		@\$10 _____
Monday, May 12	Civil Aviation Medical Association Luncheon.....No. _____		@\$35 _____
Monday, May 12	Society of USAF Flight Surgeons Luncheon.....No. _____		@\$35 _____
Monday, May 12	U.S. Navy LuncheonNo. _____		@\$35 _____
Monday, May 12	U.S. Army Aviation Medical Association LuncheonNo. _____		@\$35 _____
Monday, May 12	Aerospace Human Factors Association Luncheon.....No. _____		@\$35 _____
Monday, May 12,	Corporate and Sustaining Affiliate LuncheonNo. _____		@\$35 _____
Monday, May 12	Fellows Dinner (MUST BE A FELLOW OR GUEST OF AsMA FELLOW)No. _____		@\$75 _____
Tuesday, May 13	Associate Fellows BreakfastNo. _____		@\$30 _____
Tuesday, May 13	AsMA Annual Business Meeting (Lunch Optional)No. _____		@\$35 _____
Tuesday, May 13	Associate Fellows/Fellows ReceptionNo. _____		@\$35 _____
Tuesday, May 13	Reception to Honor International Members.....No. _____		@\$20 _____
Wednesday, May 14	Aerospace Physiology Society Luncheon.....No. _____		@\$35 _____
Wednesday, May 14	May 14, Society of NASA Flight Surgeons Luncheon.....No. _____		@\$35 _____
Wednesday, May 14	May 14, Aerospace Nursing Society LuncheonNo. _____		@\$35 _____
Wednesday, May 14	May 14, Iberoamerican Association of Aerospace Medicine Luncheon.....No. _____		@\$35 _____
Thursday, May 15	Space Medicine Association LuncheonNo. _____		@\$35 _____
Thursday, May 15	AsMA Honors Night Banquet (Black Tie Optional).....No. _____		@\$75 _____
	Subtotal Events		\$ _____
	Total Amount Due (Registration—from front side—& Events)		\$ _____

Method of Payment

Check Number: _____ CHECK AMEX DISCOVER MASTERCARD VISA DINERS

Name as it appears on card: (PLEASE PRINT) _____

Credit Card #: _____ Expiration Date: _____

Signature: _____

Approval (Official use only): _____

Fax with credit card information to:
703-739-9652

Or mail with payment to:
Aerospace Medical Association
320 S Henry Street
Alexandria, VA 22314-3579

Payment must accompany form. All payments are in U.S. funds. Registrants submitting via fax must include credit card information. Please remember to include both sides when faxing. **Use only one method to register.**

Meeting Schedule

AEROSPACE MEDICAL ASSOCIATION 85TH ANNUAL SCIENTIFIC MEETING
SAN DIEGO, CA, MAY 10-15, 2014

MONDAY, MAY 12								
8:00 A.M. - 9:30 A.M.	OPENING CEREMONIES AND 60th LOUIS H. BAUER LECTURE—Lt. Gen. Thomas Travis, USAF, MC Note: FAA Session will be held in Aqua Room 306 at the Hilton Hotel all Week							
	INDIGO A (300)	INDIGO D (300)	INDIGO E (300)	INDIGO H (300)	INDIGO B & F (500)	INDIGO C & G (500)	INDIGO 202 (80)	INDIGO 204
10:30 A.M. - 12:00 NOON	SAFETY PANEL Risk-Based Aeromedical Decision Making: 1% Rule	CLINICAL SLIDE Aviation Medical Program & Their Evaluation	SPACE PANEL Implications of Fluid Shifts in Space & on Earth	CLINICAL PANEL Aeromed Implications of New Medical Technologies	HP PANEL VIDEO Hypoxia & Acceleration	OTHER PANEL Aviation Medicine 75 Years Ago	HP PANEL VIDEO MOC Aeromed Board Review Series #1: Flight Environment	10:00 A.M. POSTERS: CLINICAL & SAFETY Mishaps, Trends and Case Studies
12:00 NOON - 2:00 P.M.	SPECIAL LUNCHEONS—CAMA, NAVY, AIR FORCE, ARMY, AEROSPACE HUMAN FACTORS, CORPORATE AND SUSTAINING AFFILIATE							
2:00 P.M. - 3:30 P.M.	ATM PANEL Prevention & Management of Public Health Events in Civil Aviation	SAFETY PANEL Modeling Human Response to Dynamic Loading	SPACE SLIDE Insight into VIIP	HP PANEL NVGs, LEDs, Color Vision: Parts I & II	SPACE PANEL VIDEO Acceleration Tolerance for Commercial Spaceflight	HP PANEL Human Factors, HSI & Allied Aerospace Medicine	CLINICAL PANEL VIDEO Aerospace Neurology	2:30 P.M. POSTERS: SPACE To Space...Infinity and Beyond
4:00 P.M. - 5:30 P.M.	ATM PANEL Patient Movement Experience During Disaster Response	SAFETY PANEL Advances in Aerospace Medicine in Iberoamerica	HP SLIDE Selection, Training & Usability		SPACE PANEL VIDEO Medical Considerations for Commercial Spaceflight	HP PANEL Implementing Fatigue Management	CLINICAL PANEL VIDEO Flying Physician Assoc. Clinical Panel	
TUESDAY, MAY 13								
8:30 A.M. - 10:00 A.M.	1ST EUGEN G. REINARTZ MEMORIAL LECTURE—JOHN B. WEST, M.D., PH.D.							
10:30 A.M. - 12:00 NOON	ATM PANEL Pain Management in Aeromedical Evacuation	HP PANEL Hypobaric Exposure Brain Effects	SPACE SLIDE Space Countermeasures & Treatment	SAFETY SLIDE Mishap Review & Preventive Tools	SPACE PANEL Behavioral Health & Performance at JSC	OTHER PANEL VIDEO Ethical Issues in Aerospace Medicine	CLINICAL PANEL VIDEO MOC Aeromed Board Review Series #2: Preventive Medicine	10:00 A.M. POSTERS: CLINICAL Aeromedical/ Clinical Interest
12:00 NOON - 2:00 P.M.	AEROSPACE MEDICAL ASSOCIATION LUNCHEON AND BUSINESS MEETING							
2:00 P.M. - 3:30 P.M.	CLINICAL PANEL PTSD in Aviators	OTHER PANEL Time for a Change in Aerospace Medicine Education and Training?	HP PANEL Advances in Aircrew and Aircraft Life Support Equipment	SAFETY PANEL ESAM: Things that Keep us Awake in Europe	SPACE PANEL Head Stabilization & Neck Pain During Spaceflight	CLINICAL PANEL VIDEO Type 1 Diabetes: Understanding the Game	CLINICAL PANEL VIDEO Aviation Medicine Cases at Naval Air Station North Island	2:30 P.M. POSTERS: HP Acceleration, Musculoskeletal Issues, & Fatigue
4:00 P.M. - 5:30 P.M.	ATM PANEL Patient Safety in Air Force en Route Care	HP SLIDE I've Got my Eye on You (Vision Issues)	HP PANEL FRENCH Operational Fatigue in Modern Aviation	SAFETY PANEL Air & Space Interoperability Council	SPACE PANEL European Space Exploration Questions	CLINICAL PANEL VIDEO Type 1 Diabetes: Setting the Ground Rules	CLINICAL PANEL VIDEO 3rd Marine Aircraft Wing Aviation Medicine Cases	
WEDNESDAY, MAY 14								
8:30 A.M. - 10:00 A.M.	SAFETY PANEL Aeromedical Issues in Public Safety	CLINICAL SLIDE Mitigation & Interference	CLINICAL PANEL The Great Aussie Aviation Medicine Panel	SAFETY SLIDE Escape/ Impact: Military Flight Safety	HP PANEL VIDEO Issues in Operational Physiology	CLINICAL PANEL VIDEO Grand Rounds: Pt. 1	SPACE SLIDE Long-Duration Spaceflight Issues	
10:30 A.M. - 12:00 NOON	ATM SLIDE In-Flight Medical Emergencies & Occupational Health	CLINICAL SLIDE Rattle my Nerves	HP SLIDE Age & Stress Effects	SAFETY SLIDE Human Factors in Aviation Accidents	SPACE PANEL VIDEO Deep Space Exploration Health Challenges	CLINICAL PANEL VIDEO Grand Rounds: Pt. 2	HP SLIDE High Flight	
12:00 NOON - 2:00 P.M.	SPECIAL LUNCHEONS—AEROSPACE NURSING SOCIETY, AEROSPACE PHYSIOLOGY SOCIETY, SOCIETY OF NASA FLIGHT SURGEONS, IBEROAMERICAN ASSOCIATION OF AEROSPACE MEDICINE, WING							
2:00 P.M. - 3:30 P.M.	ATM PANEL German View of Aerospace Medicine Topics	CLINICAL PANEL RAF Panel—AECC, CAMS & CCAST	HP SLIDE Physiology: Lessons of Extreme Tolerance	SPACE SLIDE Risk Evaluation	CLINICAL PANEL VIDEO Cardiovascular Disease in the Aviator	CLINICAL PANEL VIDEO Grand Rounds: Pt. 3	CLINICAL SLIDE Clinical Aviation Medicine	
4:00 P.M. - 5:30 P.M.	ATM SLIDE Military Transport Around the World	CLINICAL PANEL HIMS—40-years of Substance Abuse Treatment Success for Airline Pilots	HP SLIDE Performance Assessment in Aviation	HP SLIDE Physiological Factors & Performance	SAFETY PANEL VIDEO Material Solutions to Degraded Visual Environments	CLINICAL PANEL VIDEO RAM Bowl	HP SLIDE Snoozes (Fatigue Issues)	
THURSDAY, MAY 15								
8:15 A.M. - 9:15 A.M.	49TH HARRY G. ARMSTRONG LECTURE—MICHAEL BAGSHAW, MB, BCH, MRCS, FFOM, DAVMED, DFFP, FRAES							
10:00 A.M. - 11:30 A.M.	OTHER PANEL Walk Like a Regulator— Regulatory Aeromedicine Issues: Pt. 1	HP SLIDE Dressed for Speed	OTHER SLIDE The Best of the Rest	SPACE SLIDE Space Analogs	HP PANEL VIDEO Exploring the Frontiers of Aerospace Medicine and Human Performance: Future Challenges & Potential Solutions		ATM PANEL VIDEO MOC Aeromed Board Review Series #3: Operational ASM/ MGT & Admin	
11:30 A.M. - 1:30 P.M.	SPECIAL LUNCHEONS—SPACE MEDICINE ASSOCIATION							
1:30 P.M. - 3:00 P.M.	OTHER PANEL Walk Like a Regulator— Regulatory Aeromedicine Issues: Pt. 2	CLINICAL PANEL Advanced Aerospace Medicine for International Medical Officers (AAMIMO) Aeromedical Clinical Case Presentations	HP PANEL Human Factors Challenges in UAS—Cognitive Workload, Situational Awareness, Decision- Making, and Trust in Automation	SPACE SLIDE Space Diagnostic & Monitoring Technologies	SAFETY PANEL VIDEO Improving Performance through Patient Safety Culture Change		CLINICAL PANEL VIDEO ASAMS Aerospace Medicine Guidelines Pt. 1 & 2	
3:30 P.M. - 5:00 P.M.	OTHER SLIDE Aerospace Medical Issues throughout the Years	OTHER PANEL International Aeromedical Training Opportunities	SAFETY PANEL Earhart-Noonan Mishap Investigation	SPACE SLIDE Rodent Research & Gravitational Studies	SAFETY PANEL VIDEO 2013 Aviation Safety Year in Review			
COLOR CODE	TRAVEL & AIR TRANSPORT MEDICINE (ATM)	CLINICAL	HUMAN PERFORMANCE (HP)	SAFETY	SPACE MEDICINE	OTHER		



Aerospace Medical Association
320 South Henry Street
Alexandria, VA 22314-3579
(703) 739-2240
www.asma.org

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