# OPENING THE DOORS TO AEROSPACE MEDICINE

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APRIL 30-MAY 4, 2017 SHERATON DENVER DOWNTOWN HOTEL DENVER, CO



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# **Opening the Doors to Aerospace Medicine**

In opening the doors to aerospace medicine an objective is to encourage contributions from individuals and groups new to aerospace medicine and who are beginning to see how the ubiquitous nature of the flight environment is affecting their work. With an aging and more infirm population represented among the billions flying annually and the advance of commercial human spaceflight, there are new areas of scientific and medical research conducted away from the more established aerospace medical facilities. We are keen that everyone engaged in such research considers the advantages of bringing the results of their work to a scientific meeting where they have the chance to interact with many hundreds of aerospace medical specialists.

Aerospace medicine is truly multi-disciplinary and international. Our presentations come from diverse experts who will enhance the world's knowledge and understanding of the current challenges in Aerospace Medicine and demonstrate an impact on improving the health, safety, and human performance of those involved in aviation, space, and extreme environments. Our annual scientific meeting presents an opportunity to learn about the work of our colleagues from around the world, to share the knowledge and wisdom which we gain in our dayto-day work and practice, and is a great way to expand the overall community of aerospace medicine.

AsMA 2017 is opening the doors to health, safety, and human performance in aerospace environments.

The Program Committee, chaired by Patricia MacSparran, M.D., has organized a balanced program of sessions on human performance, aerospace medicine, travel medicine, space medicine, civil and military aviation medicine, and safety.

Register Online now at https://www.asma.org/ scientific-meetings/asma-annual-scientific-meeting/ registration to 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**

Based upon responses to a survey provided at the end of the 87th Annual Scientific Meeting in Atlantic City, NJ, the top 6 categories our members indicated a need for more information in were: 1) Human Performance/ Human Factors; 2) Aerospace Medicine; 3) Travel Medicine; 4) Space Medicine; 5) Operational Medicine; and 6) Accident Investigation. The 88th Annual Scientific Meeting program will be focused on these six major categories. Sessions will cover the latest findings in the fields of aviation and space medicine, human performance, and related fields such as aerospace nursing, aerospace physiology, and human systems integration.

Abstracts are centered on the meeting objectives, which are aligned with the theme. The participant will:

- Learn about evolving trends and best practices in aerospace medicine;
- Apply principles of evidence-based medicine, operational risk management, and aeromedical decision-making in aircrew selection and clinical aerospace medicine practice;
- Analyze mechanical, human performance, and systems integration factors in aviation mishaps and safety programs;
- Identify mechanical, biological, social, cognitive, environmental stress, and systems factors that impact on optimal human performance and decision making in the full spectrum of aerospace operations;
- Apply ethical principles to aerospace medicine decision-making and 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**

- Aerospace Medicine Board Review, Aeromedical Grand Rounds, and "RAM Bowl"
- Special Panel on developing a research topic and preparing it for presentation
- **Emerging Technologies**
- Hypoxia, acceleration, and high altitude medical issues
- Unmanned aircraft systems
- Spatial disorientation
- Aerospace dentistry
- Crashworthy systems
- Neurophysiology
- Injury mitigation
- Patient safety and air transport medicine issues
- In-flight medical events
- **Human Systems Integration**
- Human performance in aviation
- Aviation safety in civil and military settings
- Aviation Medicine Case Studies
- German and Spanish language aeromedical panels
- FAA Seminars for AMEs

### **Educational Benefits**

CME credits—AsMA is accredited through the Undersea and Hyperbaric Medical Society to provide continuing medical education for physicians.

- · This live activity is designated for a maximum of 22.5 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, and Slide Sessions have been designated for MOC. At least 20 non-concurrent hours of MOC training will be available.
- 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 sections 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 topic areas and the four required knowledge areas of Human Factors, Egress, and Disaster; Epidemiology and Biostatistics, Review of Respiratory and Metabolic Diseases; Pilot Selection and Retention, Evaluation and Risk Assessment; and Civil Aviation Regulations.

# **Professional Development**

Several sessions highlight professional development, one of the core competencies for maintenance of certification, including the Epidemiology Workshop, the MOC sessions, and the panel on Aeromedical Ethics.

# Speed Mentoring

A special session on Tuesday afternoon is set up for a Speed Mentoring program. Students and residents will have a chance to interview seasoned professionals in Aerospace Medicine and Human Performance during 10-min bursts. It's fun, it's fast, and it's fascinating!

## **Other Benefits**

- Networking with Peers
- Scientific and Technical Exhibits
- Special Poster Session for Committees and Constituent organizations
- Constituent and Affiliate Organization Luncheons and Awards
- Spouses Program

<sup>\*</sup>Accreditation Statement: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Undersea and Hyperbaric Medical Society as accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 22.5 AMA PRA Category 1 Credits\*\*\*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Full Disclosure Statement: All faculty members and planners participating in continuing medical education activities sponsored by the Aerospace Medical Association are expected to disclose to the participants any relevant financial relationships with commercial interests. Full disclosure of faculty and planner relevant financial relationships will be made at the activity. UHMS Disclaimer: The information provided at this CME activity is for Continuing Medical Education purposes only. The lecture content, statements or opinions expressed however, do not necessarily represent those of the Undersea and Hyperbaric Medical Society (UHMS), its affiliates or its employees.

# **Special Sunday Workshops**

1. Injury Analysis in Aerospace Accident Investigation

Sunday 8:00 A.M. – 5:30 P.M. 8 AMA PRA Category 1 Credits™

(Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 8.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity)

New this year!!! The purpose of this workshop is to provide the basis for: 1) the appropriate methods of forensic evidence collection in the investigation of the biomechanics and biodynamics of aircraft accident injuries along with determination of the mechanism of injuries; 2) the role of forensic pathology in aircraft mishap investigations; and 3)the investigation of injury outcome in crashes to better understand the mechanism of injury and to formulate strategies to improve vehicles' occupant protection. Coordinated by Dr. Eduard Ricaurte, the workshop will be divided in two sessions.

# 2. Introduction to Aerospace Epidemiology Sunday 8:00 A.M. – 5:30 P.M. 8 AMA PRA Category 1 Credits™

(Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 8.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity)

This course is oriented to professionals in aerospace medicine, mishap analysis, aerospace psychology, aerospace physiology, flight medicine, aviation medicine, aviation safety analyses, aerospace engineering, human factors engineering, and anyone else involved in the analyses of aviation mishaps or rare events. It will be taught from an aerospace mishap analyses perspective. There will be 6 h of classroom lecture by IAMFSP members, and 2 h of guided practice with problems taken from real life analyses. Learners must bring a portable computer with the appropriate EpiInfo™ program for the operating system loaded. Please note that Epilnfo™ does not have a Macintosh compatible option. WiFi access is not required. The  $\dot{\text{EpiInfo}^{\text{TM}}}$  program can be downloaded from the CDCP web site for free.

# 3. Aircrew Fatigue: Causes, Consequences, and Countermeasures Sunday 9:00 A.M. – 4:00 P.M. 6 AMA PRA Category 1 Credits™

(Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 6.0 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity)

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.

# 4. Aerospace Medicine Faculty Development Workshop Sunday, 12:00 – 3:00 P.M.

3 AMA PRA Category 1 Credits™

(Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 3.0 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity)

This workshop, chaired by Col. Mark Coakwell and Dr. Richard Allnut of the USAF School of Aerospace Medicine, will provide presentations on current topics of interest to the international 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 of aerospace medicine programs within and outside of the United States. They will present topics aimed at improving teaching skills and providing proven methods for evaluating residents and will address international considerations in aerospace medicine residency training. Current and future faculty members may benefit from these presentations and are invited to attend. Continuing Medical Education and Maintenance of Certification credit will be available for completion of this workshop.

Open the Doors to Education—the primary objective of the Aerospace Medical Association's Annual Scientific Meeting. Designed from meeting evaluation forms, periodic surveys, and abstracts submitted, our meeting provides the latest results in sessions designed for aerospace medicine professionals under one roof. The scientific program will benefit residents, medical and graduate students, and advanced undergraduates who have an interest in aerospace medicine. Professional development and the other core competencies as outlined by the American Board of Preventive Medicine will be highlighted throughout the meeting. Continuing education credits are available for participants.

Open the Doors to Opportunities—to learn about the latest products and services from our many technical and scientific exhibitors; to experience three plenary lectures; to govern during the business luncheon, where you have the opportunity to help guide our association; to honor the best and the brightest among your fellow professionals during awards luncheons and the honors night banquet; to socialize through the spouses' program, which is open to all spouses and friends of AsMA members.

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

The AsMA is international in both membership and scope of interest, providing opportunities to connect and exchange ideas with some of the world's foremost medical specialists and internationally renowned scientists in the field of Aerospace Medicine and Human Performance. If you are interested in the multi-disciplinary approach to working with humans in flight and challenging environments, whether as a physician, physiologist, researcher, engineer, technician, nurse, student, or pilot:

# You should open the door and come on in!

# **Key Speakers**



63rd Bauer Lecturer Monday, May 1 (Wyle, sponsor) Michael R. Barratt, Astronaut/Physician, NASA



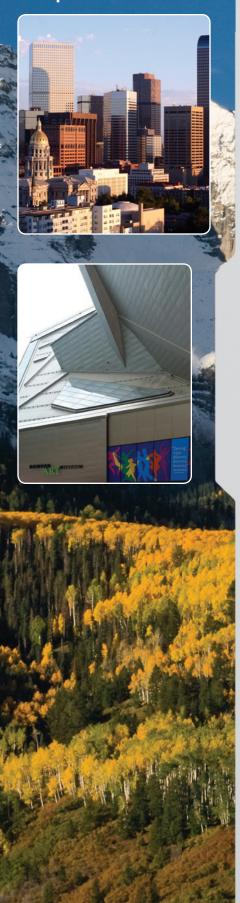
4th Reinartz Lecturer Tuesday, May 2 (Reinartz Fund, sponsor) Michael A. Berry, M.D., US Federal Air Surgeon



52nd Armstrong Lecturer
Thursday, May 4
(Environmental Tectonics
Corporation, sponsor)
Kevin Fong, M.B.B.S.
UK physician and Futurist
"Extremes; The Fastest Century"

# Open the doors to Denver!

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 the cultural and educational experiences of the host city with old and new friends. There is a Hospitality Room, a Welcoming Reception on Monday, May 1, and a Luncheon on Wednesday, May 3.

Two tours are planned this year. Tuesday's Walking Tour will transport us on a journey through time of Denver History. We will experience the city from its Wild West past as a mining camp during the Gold Rush, and the "Gateway to the Rockies" to more recent history and influences in the current metropolis it has become. Thursday's Tour will be a 4-hour scenic bus tour through the Foothills of the Rocky Mountains, including Red Rocks Amphitheatre, Bear Creek Canyon, and Lariat Loop, with lunch on your own in Golden, CO.

# The Richard B. "Dick" Trumbo Preventive Medicine 5K Fun Run/Walk Monday, May 1

The start time is 6 a.m. The fee is \$10 and tickets must be purchased in advance. 5K will occur at an altitude in excess of 5,200 ft (1,600 m). Please be prepared for effects of altitude on your performance.

# **Climate for May**

Average highs are between 67 and 74 $^{\circ}$  (19–23 $^{\circ}$ C) and lows fall between 42 and 46 $^{\circ}$ F (5–8 $^{\circ}$ C). May (mud season) has more precipitation than any other month, but only gets new snow about 25 $^{\circ}$ 6 of the time. The relative humidity usually peaks at 70 $^{\circ}$ 6 in the morning dropping to 35 $^{\circ}$ 6 by early afternoon.







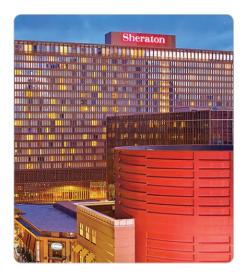
### Altitude

# http://guide.denverpost.com/lists/8-tips-avoid-mile-high-altitude-sickness/

The Mile High City has 17% less oxygen pressure than cities at sea level, so don't be surprised if you come to town and become breathless over more than the scenery. Shortness of breath, throbbing headaches, and fatigue are just a few symptoms of altitude sickness. Fortunately, many people come and go symptom free. But if the elevation gets to you, here are 8 non-prescription tips you can try: 1. A slow ascent; 2. Hydrate (Gatorade<sup>™</sup> is helpful); 3. Eat carbs; 4. Garlic soup; 5. Pranayama yoga breathing; 6. Plenty of sleep; 7. Extra iron; 8. Ginko.

# **Transportation**

From the airport you can take RTD Light Rail (http://www.rtd-denver.com/GoogleTripPlanner.shtml) with over 30 stations, including near the Sheraton. You can find out more about transportation in and around Denver at http://www.denver.org/about-denver/transportation/.



# **Sheraton Denver Downtown Hotel**

1550 Court Place, Denver, CO 80202, USA Reservations 888-627-8405; 303-893-3333

All the standard amenities are available, including In-Room High Speed Internet Access, Multilingual Staff, Fully ADA Equipped rooms, Safe Deposit Boxes, Outdoor Heated Pool, Sheraton Fitness, Link@ Sheraton, Sheraton Club Lounge, Laundry/ Dry Cleaning, and Pet Friendly Rooms. For more information visit: http://www.sheratondenverdowntown.com/hotel-features.

# **Special AsMA Room Rates:**

All attendees are offered the U.S. government employee per diem rate of \$178.00/night + taxes.

Please use the hotel reservation link found on the AsMA Registration webpage: https://www.star-woodmeeting.com/book/AsMA2017. Hotel room block is good through 5:00 p.m. Mountain time on April 05, 2017. Book early to ensure a room.

# **Attention AsMA Members!**

If you receive a paper copy of the journal in your mailbox each month, please bring your March Program Issue with you to the meeting this year. If you don't 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.

**PLEASE NOTE:** Event tickets must be purchased in advance. The hotel requires us to cut off tickets sales 72 hours before each event.

**Advance Registration Form** 88th Annual Scientific Meeting **DENVER, Colorado, APRIL 30 - May 4, 2017** 

| Information for our records  |                              |                                       |                       |   |  |  |  |
|--|------------------------------|---------------------------------------|-----------------------|---|--|--|--|
| Name:  | Degree/Credentials:          |                                       |                       | (Mail registrations   | ation runs January 1 – 31<br>must be postmarked with a |  |  |
| Organization:  | Title:                       |                                       |                       | January date)   |  |  |  |
|  |                              |                                       |                       | We strongly encor   | urage online<br>vw.asma.org/scientific-                |  |  |
| Street Address   |                              |                                       |                       |   | nnual-scientific-meeting/                              |  |  |
| City:  | State/Country:               | Zip Code:                             |                       | Advance Registration Closes April 25.  A \$50 administrative fee is applied to all                  |  |  |  |
| E-mail:  | 1                            | 1                                     |                       |   | ancelations or refunds after                           |  |  |
| Telephone Number:  | Fax Number:                  |                                       |                       |   |  |  |  |
|  |                              |                                       |                       | Spouses who have registered with the Wing and require CME credits may do so at the AsMA member fee. |  |  |  |
| ☐ Please indicate if this is an address change to your   | AsMA Membership Record       |                                       |                       |   |  |  |  |
| Online registration is available at www.asma.org/a   | nnual-meetings/registratio   | n                                     |                       |   |  |  |  |
| You must be an active member of AsMA in order to a Fax registration form with credit card information to: (  |                              | Registration fee                      | does not inclu        | ude membership du   | es.  |  |  |
| First time attendee, or new member? ☐ YES ☐ NO   | Special dietary require      | ement:                                |                       | _   |  |  |  |
| If you are being funded by the U.S. DoD please indicate  | te Branch: 🗆 Army 🗖 Nav      | y 🗆 Air Force [                       | □ Coast Guar          | rd  |  |  |  |
| Registration Fee   |                              | Early Bird <sup>†</sup><br>1/1 – 1/31 | Advance<br>2/1 – 4/25 | At-The-Door<br>4/30 – 5/4   | Registration Fee Remitted                              |  |  |
| ☐ Member   |                              | \$375 <sup>†</sup>                    | \$450                 | \$550   |  |  |  |
| □ Non-Member   |                              | \$650 <sup>†</sup> *                  | \$725*                | \$825*  |  |  |  |
| □ Non-Member Presenter   |                              | \$550 <sup>†</sup> *                  | \$625*                | \$725*  |  |  |  |
| Residents  |                              | \$275 <sup>†</sup>                    | \$350                 | \$350   |  |  |  |
| Students   |                              | \$50 <sup>†</sup>                     | \$100                 | \$100   |  |  |  |
| FAA-AME Seminar §  | \$250 <sup>†</sup>           | \$310                                 | \$310                 |   |  |  |  |
| *Go to www.asma.org to become a member and tak<br>and other membership benefits.<br>†Early Bird Registration must be paid in full (includ<br>§Fee Covers AsMA overhead costs. CME credit for the | ling all events and meal fur | nctions) at the ti                    | ime of regist         | ration.   | Medical Association journal                            |  |  |
| Add CME and MOC Credits  |                              |                                       |                       |   |  |  |  |
| ☐ Add Member CME Credits   |                              | \$150                                 | \$150                 | \$150   |  |  |  |
| ☐ Add Member CME and MOC Credits   |                              | \$200                                 | \$200                 | \$200   |  |  |  |
| ☐ Add Non-Member CME Credits   |                              | \$200                                 | \$200                 | \$200   |  |  |  |
| ☐ Add Non-Member CME and MOC Credits   |                              | \$250                                 | \$250                 | \$250   |  |  |  |
| Subtotal for Registration F  |                              |                                       |                       |   |  |  |  |

# **Advance Registration Form**

Sunday, April 30,

8:00 a.m.-5:30 p.m.

88th Annual Scientific Meeting DENVER, Colorado, APRIL 30 - May 4, 2017

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

☐ Workshop #1 "Injury Analysis in Aerospace Accident Investigation" (MAX 50)

Workshop Name

| Sunday, April 30,<br>8:00 a.m5:30 p.m. | □ Wor       | kshop #2 "Introduction t                          | o Aerospace Epidemiology"                      | (MAX 75)                     |  | \$200             |           |
|--|-------------|---|--|------------------------------|--|-------------------|-----------|
| Sunday, April 30,                      | □ Wor       | kshop #3 "Aircrew Fatig                           | ue" (MAX 75)                                   |                              |  | \$150             |           |
| 9:00 a.m4:00 p.m                       |             |   | · · · · ·                                      |                              |  |                   |           |
| Sunday, April 30,<br>12:00 p.m3:00 p.m | □ Wor       | kshop #4 "Aerospace Me                            | edicine Faculty Development                    | t" (MAX 50)                  |  | \$75              |           |
| Date                                   | Events      |   |  |                              | No. of Tickets   | Fee Per Ticket    | Total Fee |
|  |             |   | (ONLY for AsMA Members w                       | ho receive their             |  | \$10              |           |
| Considered America CO                  | -           | by mail)  | IOTE All All                                   |                              |  | <b>#</b> 10       |           |
| Sunday, April 30                       |             |   | IOTE: All Attending Event Mu                   |                              |  | \$10              |           |
| Monday, May 1,<br>6:00 a.m.            | LI KICI     | ard B. "Dick" Trumbo 5k                           | k Fun Run (advance purchase                    | e only)                      |  | \$10              |           |
| Monday, May 1                          | ☐ Civil     | Aviation Medical Associ                           | ation Luncheon (advance pu                     | rchase only)                 |  | \$45              |           |
| Monday, May 1                          | ☐ Soci      | ety of USAF Flight Surge                          | eons Luncheon (advance pur                     | chase only)                  |  | \$45              |           |
| Monday, May 1                          | □ U.S.      | Navy Luncheon (advanc                             | e purchase only)                               |                              |  | \$45              |           |
| Monday, May 1                          | □ U.S.      | Army Aviation Medical A                           | Association Luncheon (advar                    | nce purchase only)           |  | \$45              |           |
| Monday, May 1                          | ☐ Aero      | space Human Factors A                             | ssociation Luncheon (advan                     | ce purchase only)            |  | \$45              |           |
| Monday, May 1                          |             | oorate Forum Luncheon (<br>ER, EXHIBITOR, OR CORI | (Advance purchase only) (Ml<br>PORATE SPONSOR) | JST BE A COPORATE            |  | \$0               |           |
| Monday, May 1                          | ☐ Fello     |   | rchase only) (must be a fello                  | ow or guest of               |  | \$85              |           |
| Tuesday, May 2                         | ☐ Asso      | ociate Fellows Breakfast                          | (advance purchase only)                        |                              |  | \$45              |           |
| Tuesday, May 2                         |             | A Annual Business Meet<br>ourchase only)          | ting (Free Attendance; Ticke                   | t required for meal) (ad-    |  | \$45              |           |
| Tuesday, May 2                         | ☐ Acc       |   | eption to Honor Internationa                   | I Members and Associate      |  | \$45              |           |
| Wednesday, May 3                       |             | space Physiology Societ                           | ty Luncheon                                    |                              |  | \$45              |           |
| Wednesday, May 3                       |             | ety of NASA Flight Surge                          |  |                              |  | \$45              |           |
| Wednesday, May 3                       | ☐ Aero      | space Nursing Society L                           | uncheon  |                              |  | \$45              |           |
| Wednesday, May 3                       | ☐ Iber      | pamerican Association o                           | f Aerospace Medicine Lunch                     | eon                          |  | \$45              |           |
| Thursday, May 4                        | ☐ Spa       | ce Medicine Association                           | Luncheon                                       |                              |  | \$45              |           |
| Thursday, May 4                        | ☐ AsN       | A Honors Night Banquet                            | (Black Tie Optional)                           |                              |  | \$85              |           |
|  |             | ble Donation to the AsM                           |  |                              |  |                   |           |
|  | (Elliel     | Amount in the "Total Fe                           | e Golullili)                                   |                              | Cubto  | tal of Events ▶   |           |
|  |             |   | Total Amount Due                               | (Registration Subtotal + Wo  |  |                   |           |
|  |             |   | Total Amount Due                               | (Trogistration Subtotal + Wo | TROTTOP + SUDIUL   | ai oi Evelita)    |           |
| Method of Payment                      |             |   |  |                              |  |                   |           |
| Check Number:                          |             | □ Check □ AMEX □                                  | Discover 🗆 Mastercard 🗆                        | ] Visa □ Diners              |  |                   |           |
| Name as it appears on card:            | (Please Pri | nt)   |  |                              | Fax with cre<br>703-739-96   | edit card informa | ation to: |
| Credit Card No:                        |             |   | Expiration Date:                               | Security Code:               |  | n payment to:     |           |
| Street:                                |             |   | City:  | Mail Code:                   | Aerospace Medical Association<br>320 S. Henry Street<br>Alexandria, VA 22314-3579. |                   | UII       |
| Signature:                             |             |   | <u>I</u>                                       | Country:                     |  |                   |           |

Amount Paid

\$200

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** 88th Annual Scientific Meeting **DENVER, Colorado, APRIL 30 - May 4, 2017** 

|  |  |  |  | CCIDENT INVESTIGATION  | S WORKSHOP   |  |   |  |
|--|--|--|--|--|--|--|---|--|
| 3:00 a.m 5:00 p.m.   | S-002. INTRODUCTION  | TO AEROSPACE EPIDEMI   | OLOGY  |  |  |  |   |  |
| :00 a.m 4:00 p.m.  | S-003. AIRCREW FATIG   | UE: CAUSES, CONSEQUE   | NCES, AND COUNTERM   | EASURES  |  | ,  |   |  |
| 2:00 NOON - 3:00 P.M.  | S-004. AEROSPACE ME  | DICINE FACULTY DEVELO  | PMENT WORKSHOP   |  |  |  |   |  |
| Monday   |  |  |  |  |  |  |   |  |
| <u> </u>   | FAA will be in IM Pei Tov  | ver, Majestic Ballroom   |  |  |  |  |   |  |
| 3:00 а.м 9:30 а.м.   | PLAZA BALLROOM   | AND 63rd LOUIS H. BAUE   | DIECTURE Michael   | Dorrott M.D.   |  |  |   |  |
|  | Plaza A/B  | Plaza D/E  | Plaza F  | Gov. Square 14   | Gov. Square 15   | Gov. Square 12   | Gov. Square 11  | Gov. Square 10   |
|  | 540  | 540  | 360  | 183  | 183  | 107  | 94  | dov. oquare 10   |
| 10:30 a.m 12:00 noon   | S-006 PANEL:   | S-007 PANEL: HP  | S-008PANEL: SPACE  | S-009 SLIDE:   | S-010 PANEL HP   | S-011 PANEL: ATM   | S-012 PANEL:  | S-013 PANEL:   |
|  | CLINICAL<br>Occupational Injuries in   | Sleep Issues in<br>Demanding Operational   | Spaceflight<br>Decompression   | CLINICAL<br>Can I Fly with This?   | Augmenting<br>Performance with   | Flight Safety After the<br>Germanwings Accident  | CLINICAL<br>Brain Matters   | OTHER<br>Aircraft Air Quality  |
|  | Cabin Crew   | Contexts   | Sickness   |  | Transcranial DC  | J  |   | Measurements   |
| 2:00 noon - 2:00 p.m.  |  |  |  | Factors, Corporate Forur   |  |  |   |  |
| 2:00 р.м 3:30 р.м.   | S-014 PANEL:<br>CLINICAL   | S-015 SLIDE: HP<br>Fatique   | S-016 PANEL: SPACE<br>Spaceflight Medical  | S-017 PANEL:<br>CLINICAL (In Spanish)  | S-018 PANEL: HP<br>Superman Readiness  | S-019 PANEL: ATM<br>Prescribing Cabin  | S-020 PANEL:<br>CLINICAL  | S-021 PANEL:<br>CLINICAL   |
|  | Premature or Traumatic   | · ·  | Support—Russia   | Advances in  | Skills   | Altitude Restriction for   | Research in   | Aeromedical Risk   |
|  | Birth—Issues for Flight Certification  |  |  | Aerospace Medicine in<br>IberoAmerica  | Verification for Flight  | Patient Aeroevac   | Aerospace Medicine,<br>Pt. 1: Initiating the  | Analysis Practice<br>Updates: Part 1   |
|  | Ceruncation  |  |  | iberoAmerica   | Surgeons   |  | Research Effort   | opuates. Part 1  |
| 4:00 р.м 5:30 р.м.   | S-022PANEL:  | S-023 PANEL: HP  | S-024 SLIDE: SPACE   | S-025 PANEL:   | S-026 PANEL: HP  | S-027 PANEL: ATM   | S-028 PANEL:  | S-029 PANEL:   |
|  | CLINICAL<br>Eating Disorders in  | Psychological<br>Readiness Eval. &   | Space Environment<br>Countermeasures &   | CLINICAL<br>Advances in Diagnosis  | Battlefield Airmen<br>Systems in Support of  | Airline Medical  | CLINICAL<br>Research in Aerospace   | CLINICAL<br>Agramadical Bick   |
|  | Eating Disorders in<br>Military—Impact on  | Medical Standards for  | Risks  | Impact Aviation  | HP Optimization  | Support—Adapt or<br>Perish   | Medicine, Pt. 2:  | Aeromedical Risk<br>Analysis Practice  |
|  | Aerospace Medicine   | Battlefield Air Duty   |  | Medicine   |  |  | Conducting,<br>Analyzing, Reporting   | Updates: Part 2  |
| uoodov   |  |  |  |  |  |  | Analyzing, Reporting  |  |
| uesday<br>:30 a.m 10:00 a.m.   | IGRAND BALL BOOM   | th MEMORIAL REINARTZ   | LECTURE—Michael A  | Berry M D  |  |  |   |  |
| 10:30 a.m 12:00 noon   | S-030 PANEL:   | S-031 PANEL: HP  | S-032 PANEL: SPACE   | S-033 PANEL: SAFETY  | S-034 PANEL: HP  | S-035 SLIDE: ATM   | S-036 PANEL: OTHER  | S-005a PANEL:  |
|  | CLINICAL   | Neurologic Effects of  | Centrifuge-Simulated<br>Suborbital Spaceflight:  | Characterizing the   | Future of Aerospace  | Design & Aircraft  | (German)  | CLINICAL   |
|  | Sex and the Naval<br>Aviator: HPV Disease  | Hypobaric Exposure   | Suborbital Spaceflight:<br>Training and Anxiety  | Naval Biodynamics<br>Laboratory Legacy   | Medicine with<br>Leadership  | Considerations for<br>Prevention   | Research & Clinical<br>Practice in Aerospace  | Board Review Pt. 1   |
|  | Burden   |  | Training and Anxiety   | Impact Response  | Development,   |  | Medicine  |  |
|  |  |  |  | Collection in the Biodynamics Data   | Teaching and Learning<br>Frameworks  |  |   |  |
|  |  |  |  | Resource   | Tanicworks   |  |   |  |
| 2:00 NOON - 2:00 P.M.  | AEROPACE MEDICAL AS  | SOCIATION LUNCH AND  | BUSINESS MEETING   |  | •  |  |   |  |
| 2:00 р.м 3:30 р.м.   | S-037 PANEL:   | S-038 PANEL: HP  | S-039 SLIDE: SPACE   | S-040 PANEL: SAFETY  | S-041 PANEL: HP  | S-042 SLIDE: ATM   | S-043 PANEL: OTHER  | S-005b PANEL:  |
|  | CLINICAL<br>Motivation to Fly  | Risk Management:<br>Biology, Psychology,   | Learning from Space  | USAF Proactive Safety  | Hyperbaric Oxygen<br>Toxicity: NASA Neutral  | Guidelines & Processes for Inflight Medical  | Penguins and Kiwis—<br>Non-Flyers who Opened  | CLINICAL<br>Board Review Pt 2  |
|  | inotivation to riy   | and Training   |  | Programs—Education<br>& Validation   | Buoyancy Lab   | Emergencies  | the Doors to Aerospace  | Dourd Hoviow 1 t. 2  |
| 1:00 p.m 5:30 p.m.   | C OAA DANEL.   | C DAE CLIDE, HD  | C DAG CLIDE, CDACE   | C 047 CLIDE, CAFETY  | C O40 DANIEL, UD   | C 040 CLIDE, OTHER   | Medicine<br>S-050 PANEL: 0THER  | C OOE O DANIEL.  |
| 1:UU P.M 5:3U P.M.   | S-044 PANEL:<br>CLINICAL   | S-045 SLIDE: HP<br>Aerospace Physiology  | S-046 SLIDE: SPACE<br>Human System   | S-047 SLIDE: SAFETY Challenges, Mitigation,  | S-048 PANEL: HP<br>Everything Old is New   | S-049 SLIDE: OTHER<br>Health & Welfare of  | Aerospace Dentistry   | S-005c PANEL:<br>CLINICAL  |
|  | Advanced Aerospace   | in Action  | Integration in   | and Investigations   | Again  | Aircrew Pt. 1  | ,   | Board Review Pt. 3   |
|  | Medicine for<br>International Medical  |  | Exploration Habitats   |  |  |  |   |  |
|  | Officers (AAMIMO)  |  |  |  |  |  |   |  |
|  | Case Reports   |  |  |  |  |  |   |  |
| Vednesday  |  |  |  |  |  | *  |   |  |
|  | C OE1 DANEL.   | C OF 2 DANEL , OTHER   | C OES CLIDE, CDACE   | C OF A CLIDE, CAFETY   | C OFF DANIEL.  | C OFC DANEL ATM  | C OFT DANIEL CDACE  | EVUIDIT HALL   |
|  | S-051 PANEL:<br>CLINICAL   | S-052 PANEL: OTHER<br>Rocky Mountain High:   | S-053 SLIDE: SPACE<br>Advances in Space  | S-054 SLIDE: SAFETY<br>Human Factors in  | S-055 PANEL:<br>CLINICAL   | S-056 PANEL: ATM<br>Harmonization  | S-057 PANEL: SPACE<br>Lessons from MOL:   | EXHIBIT HALL<br>10:00-12:00  |
|  | CLINICAL<br>Aerospace Medicine   | Rocky Mountain High:<br>Civil Medical Operations   | Advances in Space  | Human Factors in<br>Aviation Protection and  | CLINICAL<br>Complex Problems,  | Harmonization of Aeromedical   | Lessons from MOL:<br>How Manned Orbiting  | 10:00-12:00<br>S-058 POSTERS: HP   |
| 3:30 а.м 10:00 а.м.  | CLINICAL<br>Aerospace Medicine<br>Resident Grand Rounds:   | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain  | Advances in Space  | Human Factors in   | CLINICAL<br>Complex Problems,<br>Novel Solutions: Jr.  | Harmonization<br>of Aeromedical<br>Assessments: European   | Lessons from MOL:<br>How Manned Orbiting<br>Laboratory Contributed  | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/  |
| 3:30 a.m 10:00 a.m.  | CLINICAL<br>Aerospace Medicine<br>Resident Grand Rounds:<br>Pt 1   | Rocky Mountain High:<br>Civil Medical Operations   | Advances in Space  | Human Factors in<br>Aviation Protection and<br>Safety  | CLINICAL<br>Complex Problems,<br>Novel Solutions: Jr.<br>USAF Flight Surgeons<br>Leading Innovation  | Harmonization<br>of Aeromedical<br>Assessments: European<br>CMO Forum  | Lessons from MOL:<br>How Manned Orbiting<br>Laboratory Contributed<br>to Aerospace Medicine   | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu   |
| 3:30 a.m 10:00 a.m.  | CLINICAL<br>Aerospace Medicine<br>Resident Grand Rounds:<br>Pt 1<br>S-059 PANEL:   | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP  | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE  | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY   | CLINICAL<br>Complex Problems,<br>Novel Solutions: Jr.<br>USAF Flight Surgeons<br>Leading Innovation<br>S-063 SLIDE: CLINICAL   | Harmonization<br>of Aeromedical<br>Assessments: European<br>CMO Forum<br>S-064 PANEL: ATM  | Lessons from MOL:<br>How Manned Orbiting<br>Laboratory Contributed<br>to Aerospace Medicine<br>S-065 PANEL: OTHER   | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,   |
| 3:30 a.m 10:00 a.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1 S-059 PANEL: CLINICAL  | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment   | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE<br>Physiology of   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety   | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood,   | Harmonization<br>of Aeromedical<br>Assessments: European<br>CMO Forum<br>S-064 PANEL: ATM<br>Evidence in En Route  | Lessons from MOL:<br>How Manned Orbiting<br>Laboratory Contributed<br>to Aerospace Medicine<br>S-065 PANEL: OTHER<br>Apollo 1 Mishap:   | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu   |
| 3:30 a.m 10:00 a.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds:   | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP<br>Operation Vision<br>Research  | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE  | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY   | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood,   | Harmonization<br>of Aeromedical<br>Assessments: European<br>CMO Forum<br>S-064 PANEL: ATM  | Lessons from MOL:<br>How Manned Orbiting<br>Laboratory Contributed<br>to Aerospace Medicine<br>S-065 PANEL: OTHER<br>Apollo 1 Mishap:<br>Causes and<br>Consequences from  | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu   |
| 3:30 a.m 10:00 a.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1 S-059 PANEL: CLINICAL Aerospace Medicine   | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP<br>Operation Vision<br>Research  | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE<br>Physiology of   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood,   | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and   | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and  | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu   |
| 3:30 a.m 10:00 a.m. 0:30 a.m 12:00 noon  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS—  | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP<br>Operation Vision<br>Research  | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE<br>Physiology of<br>Spaceflight  | Human Factors in<br>Aviation Protection and<br>Safety<br>S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood,   | Harmonization of Aeromedical<br>Assessments: European<br>CMO Forum  S-064 PANEL: ATM<br>Evidence in En Route<br>Care Simulation and<br>Training Research   | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical  | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu   |
| 0:30 a.m 10:00 a.m. 0:30 a.m 12:00 noon  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac  | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP<br>Operation Vision<br>Research<br>—Aerospace Nursing Soci<br>e Medicine, Wing   | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  ety, Aerospace Physiolog   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  y Society, Society of NAS   | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms A Flight Surgeons, Ibero-J   | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research American  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective   | 10:00-12:00<br>S-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration   |
| 3:30 a.m 10:00 a.m.  10:30 a.m 12:00 noon  12:00 noon - 2:00 p.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac S-066 PANEL:   | Rocky Mountain High:<br>Civil Medical Operations<br>in a Mountain<br>Environment<br>S-060 PANEL: HP<br>Operation Vision<br>Research  -Aerospace Nursing Socie<br>e Medicine, Wing<br>IS-067 SLIDE: HP  | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  ety, Aerospace Physiolog   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  y Society, Society of NAS   | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-/  | Harmonization of Aeromedical Assessments: European CMO Forum  S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American  S-071 SLIDE: OTHER  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective S-072 PANEL:  | 10:00-12:00<br>5-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration   |
| 0:30 a.m 10:00 a.m. 0:30 a.m 12:00 noon  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac S-066 PANEL: CLINICAL Aerospace Medicine   | Rocky Mountain High: Civil Medical Operations in a Mountain Environment S-060 PANEL: HP Operation Vision Research  -Aerospace Nursing Socie e Medicine, Wing S-067 SLIDE: HP Cognition & Performance   | Advances in Space<br>Medicine<br>S-061 SLIDE: SPACE<br>Physiology of<br>Spaceflight  | Human Factors in<br>Aviation Protection and<br>Safety<br>S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-/ S-070 PANEL: CLINICAL USN Aeromedical  | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American S-071 SLIDE: OTHER Application of Aeromedical Principles  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective  S-072 PANEL: CLINICAL Adaptability Rating for   | 10:00-12:00<br>5-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration  EXHIBIT HALL<br>1:30-3:30<br>S-073 POSTERS: HP   |
| <u> </u>   | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospace S-066 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds:   | Rocky Mountain High: Civil Medical Operations in a Mountain Environment S-060 PANEL: HP Operation Vision Research  -Aerospace Nursing Socie e Medicine, Wing S-067 SLIDE: HP Cognition & Performance   | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  ety, Aerospace Physiolog S-068 SLIDE: SPACE Future of Space  | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  y Society, Society of NAS<br>S-069 SLIDE: SAFETY<br>Medical Causes of   | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-/ S-070 PANEL: CLINICAL USN Aeromedical  | Harmonization of Aeromedical Assessments: European CMO Forum  S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American  S-071 SLIDE: OTHER Application of   | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective  S-072 PANEL: CLINICAL  | 10:00-12:00<br>5-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration  EXHIBIT HALL<br>1:30-3:30<br>S-073 POSTERS: HP<br>Displays, Performand   |
| 3:30 a.m 10:00 a.m. 10:30 a.m 12:00 noon 12:00 noon - 2:00 p.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac S-066 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 3   | Rocky Mountain High: Civil Medical Operations in a Mountain Environment S-060 PANEL: HP Operation Vision Research  -Aerospace Nursing Socie e Medicine, Wing S-067 SLIDE: HP Cognition & Performance   | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  ety, Aerospace Physiolog S-068 SLIDE: SPACE Future of Space  | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  yy Society, Society of NAS<br>S-069 SLIDE: SAFETY<br>Medical Causes of<br>Aircraft Accidents  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-/ S-070 PANEL: CLINICAL  | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American S-071 SLIDE: OTHER Application of Aeromedical Principles  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective  S-072 PANEL: CLINICAL Adaptability Rating for   | 10:00-12:00<br>\$-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration  |
| 3:30 a.m 10:00 a.m.  10:30 a.m 12:00 noon  12:00 noon - 2:00 p.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac S-066 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 3  GRAND BALLROOM   | Rocky Mountain High: Civil Medical Operations in a Mountain Environment S-060 PANEL: HP Operation Vision Research  -Aerospace Nursing Socie Medicine, Wing S-067 SLIDE: HP Cognition & Performance   | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  ety, Aerospace Physiolog S-068 SLIDE: SPACE Future of Space Medicine I  SLIDE: SPACE   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  y Society, Society of NAS  S-069 SLIDE: SAFETY<br>Medical Causes of<br>Aircraft Accidents  SLIDE: SAFETY  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-A S-070 PANEL: CLINICAL USN Aeromedical Disposition— Challenging Cases from NAMI SLIDE: OTHER  | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American S-071 SLIDE: OTHER Application of Aeromedical Principles  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective  S-072 PANEL: CLINICAL Adaptability Rating for   | 10:00-12:00<br>5-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration  EXHIBIT HALL<br>1:30-3:30<br>S-073 POSTERS: HP<br>Displays, Performand   |
| 3:30 a.m 10:00 a.m.  0:30 a.m 12:00 noon  2:00 noon - 2:00 p.m.  | CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1  S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2  SPECIAL LUNCHEONS— Association of Aerospac S-066 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 3  GRAND BALLROOM S-074 PANEL:  | Rocky Mountain High: Civil Medical Operations in a Mountain Environment S-060 PANEL: HP Operation Vision Research  -Aerospace Nursing Socie Medicine, Wing S-067 SLIDE: HP Cognition & Performance   | Advances in Space Medicine  S-061 SLIDE: SPACE Physiology of Spaceflight  aty, Aerospace Physiolog S-068 SLIDE: SPACE Future of Space Medicine I  SLIDE: SPACE S-076 Future of Space   | Human Factors in<br>Aviation Protection and<br>Safety  S-062 PANEL: SAFETY<br>Aerospace Safety<br>Centers Year in Review:<br>2016  yy Society, Society of NAS<br>S-069 SLIDE: SAFETY<br>Medical Causes of<br>Aircraft Accidents  | CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms  A Flight Surgeons, Ibero-/ S-070 PANEL: CLINICAL USN Aeromedical Disposition— Challenging Cases from NAMI SLIDE: OTHER S-078 Health & Welfare   | Harmonization of Aeromedical Assessments: European CMO Forum S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research  American S-071 SLIDE: OTHER Application of Aeromedical Principles  | Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine  S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective  S-072 PANEL: CLINICAL Adaptability Rating for   | 10:00-12:00<br>5-058 POSTERS: HP<br>Hypoxia & Hypo/<br>Hyperbaria,<br>Musculoskeletal Issu<br>& Acceleration  EXHIBIT HALL<br>1:30-3:30<br>S-073 POSTERS: HP<br>Displays, Performan  |
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