

## AEROSPACE MEDICAL ASSOCIATION



### 88th ANNUAL MEETING PROGRAM ADDENDUM

April 28 - May 5, 2017

### SPECIAL EVENTS, MEETINGS, LUNCHEONS, AND CHANGES TO THE PROGRAM

#### REGISTRATION INFORMATION

Badge pickup at ADVANCE REGISTRATION is for anyone who has pre-registered!

Badges are issued only at the registration desk, which will be open Sunday through Thursday. For security reasons, admission to scientific sessions and exhibits is limited to those wearing badges. Please wear your badge at all times.

Registration desk hours are as follows:

Sunday	9:00 a.m.–5:00 p.m.
Monday	7:00 a.m.–4:00 p.m.
Tuesday	8:00 a.m.–12:00; 2:00 p.m.–4:00 p.m.
Wednesday	8:00 a.m.–4:00 p.m.
Thursday	8:00 a.m.–4:00 p.m.

Exhibits: Sunday 6:30-8:30 p.m. during Welcome Reception; Monday and Tuesday 9:30 a.m.–4:30 p.m.

#### AsMA SPECIAL ROOMS

**SPEAKER'S READY ROOM—NONE—Laptops are available in the Registration Area to review/convert presentations.**

#### AsMA WING HOSPITALITY & REGISTRATION

Tower Court D

Sunday, 1:00 – 5:00 p.m.  
Monday, 10:00 a.m. – 1:30 p.m.  
Tuesday, 8:00 – 9:30 a.m.  
Wednesday, 8:00 – 9:30 a.m.

## WELCOME TO DENVER

SUNDAY, APRIL 30

6:30 - 8:30 PM

EXHIBIT HALL

(Ticket Required)



Sponsored in part by Mayo Clinic, Rochester, MN, and Scottsdale, AZ

**FAA SEMINAR SESSIONS WILL BE HELD IN**  
Majestic Ballroom, I.M. Pei Tower, ALL WEEK  
(See page 8 for Schedule)

#### MEET THE EDITOR & JOURNAL STAFF

Ever wonder what those people you e-mail and fax your forms to look like? The Staff of *Aerospace Medicine and Human Performance* will have a table set up in the registration area so you can meet them and have a chat about the journal and publishing. And, you can sign up to be a reviewer.

#### 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 and the Aerospace Medical Association. The Undersea and Hyperbaric Medical Society is accredited by the ACCME to provide continuing medical education for physicians.

#### Learning Objectives

Upon completion of this educational activity, learners 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.

#### Target Audience

This continuing medical education activity should be of substantial interest to physicians and physician-in-training in aerospace medicine. These aerospace medicine professionals include civilian Aviation Medical Examiners (AMEs), military flight surgeons, and flight surgeons supporting space medicine programs. Additional audiences include research professionals and other members of the aerospace medicine team (Flight Nurses, Aerospace Physiologists, Aerospace Psychologists, Human Factors Experts, Aerospace Medicine Physician Assistants, and others).

**AGAIN THIS YEAR!** All paid registrants will receive COMPLIMENTARY ONLINE ACCESS TO SESSION RECORDINGS. Online content will include speaker audio synced with Presentations along with MP3 audio files. All files can be streamed or downloaded. IntelliQuest will email log-in instructions 2-3 weeks after the meeting. Visit IntelliQuest on-site in Denver for a demo. <http://www.intelliquestmedia.com>

## FRIDAY, APRIL 28, 2017

AIRLINES MEDICAL DIRECTORS ASSOCIATION (AMDA)  
MEMBERSHIP COMMITTEE MEETING  
Director's Row J 4:00-6:00 p.m.

AMDA EXECUTIVE COUNCIL MEETING  
Director's Row J 7:00-9:00 p.m.

## SATURDAY, APRIL 29, 2017

AMDA SCIENTIFIC EXHIBITS  
Vail 7:00 a.m.-5:30 p.m.

NATO AVIATION CARDIOLOGY MEETING  
Plaza Court 2 12:00-6:00 p.m.

TTCP AIRCREW NECK AND SPINAL PAIN PROJECT  
Governor's Square 16 12:00-5:00 p.m.

### AMDA 2017 SATURDAY, APRIL 29 Majestic Ballroom

#### "High and Dry in Denver"

- 7:30 Registration
- 08:00 Welcome and Introductions – Dr. Ian Hosegood,  
AMDA Scientific Program Committee
- 8:10 Lockheed Space Systems--Development of  
Manned Space Travel & Human Factors Associ-  
ated with the Orion Spacecraft Program – Paul  
Anderson
- 8:40 Pilot HIMS Experience – 1st Officer Corey  
Sloane, ALPA National HIMS Chair
- 9:10 Airline AOD Experience – Dr. Elisabete De  
Santos, TAP Portugal
- 10:00 Break - Refreshments and Visit Exhibitors
- 10:30 A&OD Toxicology – Dr. Greg Elam, Medical  
Director, National Toxicology Specialists
- 11:10 MRO Cases - Dr. Greg Elam
- 12:00 A&OD Treatment – Barbara Woods, CEO, Casa  
Palmeira
- 12:20 Lunch for badged members, speakers, exhibitors
- 1:20 Comprehensive Assessment of Substance  
Misuse – Dr. Navjot Bedi, Medical Director,  
Talbott Recovery
- 1:50 Managing Pilots in Distress – Dr. Chris Kendi,  
Duke University, Auckland Hospital, NZ
- 2:20 Cannabis – A review of the Evidence on  
Detrimental and Therapeutic Effects – Dr. Peter  
Reid, Western General Hospital, Edinburgh
- 2:50 Economic and Medical Effects of Recreational  
Marijuana Legalization in Colorado: A 4-year  
Experience – Michael Van Dyke, Ph.D., Colorado  
Department of Public Health & Environment
- 3:30 Break
- 4:00 Business Meeting

#### AMDA RECEPTION AND DINNER

Social Hour: 6:30-7:30 p.m.  
Dinner: Rockbottom Restaurant 7:30-10:30 p.m.

## SUNDAY, APRIL 30, 2017

### SUNDAY WORKSHOPS

#### 1. INJURY ANALYSIS IN AEROSPACE ACCIDENT INVESTIGATION

Governor's Square 10 8:00 a.m. - 5:30 p.m.

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

#### 2. INTRODUCTION TO AEROSPACE EPIDEMIOLOGY

Governor's Square 15 8:00 a.m. - 5:00 p.m.

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

#### 3. AIRCREW FATIGUE: CAUSES, CONSEQUENCES, & COUNTERMEASURES

Majestic Ballroom 9:00 a.m. - 4:00 p.m.

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

#### 4. AEROSPACE MEDICINE FACULTY DEVELOPMENT

Governor's Square 16 12:00-3:00 p.m.

(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)

### CAMA SUNDAY SUNDAY, APRIL 29, 8:00 a.m.-12:00 p.m. Plaza Ballroom D

#### Aircrew Neurocognitive Assessment The Gold Standard: Laboratory or Simulator?

- 8:00 Introductions
- 8:10 Neurocognitive Assessment: FAA Perspective  
Chris Front, Psy.D., FAA, Office of Aerospace  
Medicine, USA
- 8:50 Neurocognitive Assessment: CAA Perspective  
Sallie Baxendale, Ph.D., Consultant Clinical  
Psychologist, National Hospital for Neurology  
and Neurosurgery, London, UK  
Dr. Michael O'Brien, Consultant Neurologist,  
Civil Aviation Authority (CAA)  
Dr. J. Stuart Mitchell, Head, Medical Section, CAA,  
United Kingdom
- 9:30 Neurocognitive Assessment: Neurologic  
Perspective  
John Hastings, M.D., Neurology & Aerospace  
Medicine, USA
- 10:10 Break
- 10:30 Laboratory-Derived Neuropsychological  
Assessment  
Max Trenerry, Ph.D., LP, ABPP, CN  
Neuropsychology, Mayo Clinic, Rochester, MN
- 11:10 Airline Transport Pilot: A Look at Clouds from  
Both Sides Now -- Captain L.S., Airline Transport  
Pilot
- 11:50 Panel Discussion

This Live activity, CAMA Sunday with a beginning date of 04/29/2017, has been reviewed and is acceptable for up to 4 Prescribed credits by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

INTERNATIONAL ACADEMY OF AVIATION AND SPACE  
MEDICINE (IAASM) NOMINATING COMMITTEE MEETING  
Plaza Court 3 7:00-8:00 a.m.

AEROSPACE PHYSIOLOGY CERTIFICATION BOARD  
EXAM ROOM  
Plaza Court 6 7:00 a.m.-4:00 p.m.

AEROSPACE PHYSIOLOGY CERTIFICATION TESTING  
Plaza Court 1 7:00 a.m.-1:00 p.m.

**AsMA COUNCIL MEETING/LUNCH**  
**Plaza Ballroom A 8:00 a.m.-2:00 p.m.**

ASMA REGISTRATION COMMITTEE MEETING  
Plaza Court 8 8:00-9:00 a.m.

IAASM SELECTORS COMMITTEE MEETING  
Plaza Court 4 8:00-9:00 a.m.

IAASM SCIENTIFIC COMMITTEE MEETING  
Plaza Court 3 9:00-11:00 a.m.

AIR FORCE SURGEON GENERAL WORKING GROUP  
Governor's Square 12 9:00 a.m.-4:00 p.m.

USAFSAM RESIDENCY ADVISORY COMMITTEE  
Governor's Square 16 10:00 a.m.-12:00 p.m.

NATO AVIATION CARDIOLOGY MEETING  
Plaza Court 8 10:00 a.m.-6:00 p.m.

IAASM SCHOLARSHIP COMMITTEE MEETING  
Plaza Court 4 11:00 a.m.- 12:00 p.m.

AMERICAN BOARD OF PREVENTIVE MEDICINE (ABPM)  
MAINTENANCE OF CERTIFICATION (MOC) EXAM  
Director's Row E 12:00-5:00 p.m.

IAASM EXECUTIVE COUNCIL MEETING  
Plaza Court 3 1:00-6:00 p.m.

AsMA EDUCATION & TRAINING COMMITTEE MEETING  
Plaza Court 4 2:00-3:00 p.m.

AsMA BYLAWS COMMITTEE MEETING  
Plaza Ballroom A 3:00-6:00 p.m.

AsMA GLOBAL LIAISON AND OUTREACH COMMITTEE  
(GLOC) MEETING  
Director's Row I 4:00-6:00 p.m.

SUSNFS ANNUAL MEMBERSHIP MEETING  
Director's Row H 4:00-6:00 p.m.

AsMA SCIENTIFIC PROGRAM SESSION CHAIRS MEETING  
Governor's Square 15 5:00-6:00 p.m.

SMA EXECUTIVE COMMITTEE MEETING  
Plaza Court 1 5:00-6:00 p.m.

US NAVY AEROSPACE MEDICINE LEADERS GROUP  
Plaza Court 5 5:00-7:00 p.m.

KRBwyle MEETING  
Plaza Court 7 5:00-6:30 p.m.

AsMA FOUNDATION BOARD OF DIRECTORS MEETING  
Plaza Court 2 5:00-6:30 p.m.

AEROSPACE PHYSIOLOGY SOCIETY BOARD OF  
GOVERNORS MEETING  
Plaza Court 4 5:30-6:30 p.m.

FIRST TIMERS/NEW MEMBERS MEETING  
Plaza Ballroom D 6:00-6:30 p.m.

WRIGHT STATE UNIVERSITY RECEPTION  
Windows Room 7:00-9:00 p.m.

**SUNDAY WELCOME TO DENVER**  
**Exhibit Hall**

**6:30 - 8:30 p.m.**

**MONDAY, MAY 1, 2017**

**RICHARD "DICK" TRUMBO 5K PREVENTIVE MEDICINE  
RUN/WALK**

6:00 a.m. at City Park  
Shuttle Buses will run from 5:15-8:15 a.m.  
T-Shirts for all registered runners will be provided by UTMB  
Aerospace Medicine.

SOCIETY OF USAF FLIGHT SURGEONS BOARD OF  
GOVERNORS MEETING  
Plaza Court 1 7:00-8:15 a.m.

AEROSPACE PHYSIOLOGY SOCIETY BOARD OF GOVER  
NORS MEETING  
Plaza Court 3 7:00-8:15 a.m.

AEROSPACE HUMAN FACTORS ASSOCIATION MEETING  
Plaza Court 4 7:00-8:15 a.m.

**OPENING CEREMONY**  
**MONDAY, MAY 1, 2017**  
**PLAZA BALLROOM**

**7:30 a.m. CHOIR**

**Air Academy High School Chamber Singers**  
USAF, CO, Paula Baack, Director

**8:00 a.m. WELCOMING REMARKS**

**David Gradwell, M.B. Ch.B., Ph.D., DAvMed**  
President, Aerospace Medical Association

**GENERAL CHAIR REMARKS**

Jeffrey Sventek, M.S., General Chair

**NOMINATING COMMITTEE REPORT**

Philip Scarpa, M.D., Chair

**8:30 a.m.**

**THE 63rd ANNUAL LOUIS H. BAUER LECTURE**

**Lecturer: Michael R. Barrett, M.D.**

**Topic: "N = 1: Medical Debrief on an ISS  
Expedition"**

Educational Support provided by KRBwyle

**9:30 a.m.** A Short Tutorial on the Meeting App will take  
place immediately following the Bauer Lecture.

**9:30 a.m. Exhibits Open**

AsMA CORPORATE & SUSTAINING MEMBERSHIP  
COMMITTEE MEETING  
Plaza Court 3 9:30-10:30 a.m.

CAMA MEMBERSHIP MEETING  
Plaza Court 1 10:00 a.m.-12:00 p.m.

GERMAN SOCIETY OF AVIATION & SPACE MEDICINE  
MEETING (bring your lunch)  
Governor's Square 15 12:00-2:00 p.m.

WING WELCOME RECEPTION  
Tower Court D 2:30-4:30 p.m.

SPEED MENTORING  
Tower Court A 3:30-5:30 p.m.

AsMA ASSOCIATE FELLOWS GROUP BUSINESS MEETING  
Plaza Court 2 5:00-7:00 p.m.

## MONDAY LUNCHEONS

<b>AEROSPACE HUMAN FACTORS ASSOCIATION LUNCHEON</b>	Governor's Square 16	12:00-2:00 p.m.
<b>U.S. ARMY AVIATION MEDICAL ASSOCIATION LUNCHEON</b>	Tower Court A	12:00-1:00 p.m.
<b>SOCIETY OF U.S. AIR FORCE FLIGHT SURGEONS LUNCHEON</b>	Grand Ballroom 1	12:00-2:00 p.m.
<b>U.S. NAVY LUNCHEON</b>	Windows Room	12:00-2:00 p.m.
<b>CORPORATE FORUM LUNCHEON</b>	Tower Court B	12:00-2:00 p.m.

## CIVIL AVIATION MEDICAL ASSOCIATION LUNCHEON

Grand Ballroom 2 12:00-2:00 p.m.

**Topic: "Operation New Life: Vietnam Rescue"**  
**Speaker: Russell B. Rayman, M.D., MPH, DAvMed, Col., USAF(Ret.), Alexandria, VA**

This live activity, Civil Aviation Medical Association Annual Scientific Meeting, with a beginning date of 5/1/2017, has been reviewed and is acceptable for up to 1.23 Prescribed credits by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## LIFE SCIENCES AND BIOMEDICAL ENGINEERING BRANCH MEETING & SOCIAL

Tower Court C 4:00-6:00 p.m.

## FELLOWS MEETING & DINNER

MONDAY, May 1, 2017

<b>AsMA FELLOWS MEETING</b>	Governor's Square 15	6:00 - 7:00 p.m.
<b>AsMA FELLOWS RECEPTION</b>	Tower Court Foyer	6:00 - 7:15 p.m.
<b>AsMA FELLOWS DINNER</b>	Windows Room	7:15 - 10:00 p.m.

## TUESDAY, MAY 2, 2017

<b>AsMA FINANCE COMMITTEE MEETING</b>	Plaza Court 2	7:00-8:00 a.m.
<b>AsMA EDITORIAL BOARD BREAKFAST MEETING</b>	Plaza Court 4	7:00-8:30 a.m.

## ASSOCIATE FELLOWS BREAKFAST

TUESDAY, MAY 2 AT 7:00 A.M.  
 WINDOWS ROOM, I.M. PEI TOWER

The Associate Fellows Group breakfast meeting is a great place to meet other fresh enthusiastic leaders in Aerospace Medicine. Our breakfast will feature speakers who will discuss the importance of AsMA membership and details on committee participation. Service awards and the Ellington Literary Award will also be presented.

**AsMA HISTORY AND ARCHIVES COMMITTEE MEETING**  
 Plaza Court 1 7:00-9:00 a.m.

**AEROSPACE PHYSIOLOGY CERTIFICATION BOARD BUSINESS MEETING**  
 Plaza Court 4 9:00-11:00 a.m.

## 4TH EUGEN REINARTZ MEMORIAL LECTURE

TUESDAY, MAY 2  
 GRAND BALLROOM

8:30-10:00 a.m.

**Lecturer:** Michael A. Berry, M.D.,  
 FAA Federal Air Surgeon

**Title:** "Have Flight Surgeons and Aerospace Medicine Made Aviation Safer?"  
 Educational Support provided by the  
 Eugen G. Reinartz Endowed Fund

## AsMA COMMITTEE, CONSTITUENT AND AFFILIATE ORGANIZATION POSTERS

Tuesday, May 2

10:00 a.m.-2:00 p.m. Governor's Square 17  
 AsMA Committees and Constituent and Affiliate organizations may present posters and have sign-up sheets available.

**AsMA AIR TRANSPORT MEDICINE COMMITTEE MEETING**  
 Tower Court A 10:00 a.m.-12:00 p.m.

**INTERNATIONAL ASSOCIATION OF AEROSPACE DENTISTRY**  
 Plaza Court 1 10:00 a.m.-12:00 p.m.

## AsMA ANNUAL BUSINESS MEETING AND LUNCH

TUESDAY, MAY 2 12:00-2:00 p.m.  
 WINDOWS ROOM, I.M. PEI TOWER

**BUSINESS MEETING IS OPEN TO ALL MEMBERS**

**Ticket purchase required for LUNCH ONLY**

It is imperative that we have at least 100 members present for this Business Meeting! Please attend and support YOUR association!

[There will be a FREE raffle for some great AsMA GIFTS](#)

[You must be present to win!](#)

**U.S. ARMY AVIATION MEDICINE ASSOCIATION BUSINESS MEETING**  
 Tower Court B 12:00-4:00 p.m.

**USAF AIR COMBAT COMMAND FLIGHT SURGEONS MTG**  
 Tower Court A 1:00-3:00 p.m.

**AsMA MEMBERSHIP COMMITTEE MEETING**  
 Plaza Court 2 1:00-2:00 p.m.

**USAF AEROSPACE AND OP'S PHYSIOLOGY**  
 Tower Court C 2:00-5:00 p.m.

**FAA OFFICE OF AEROSPACE MEDICINE MEETING**  
 Plaza Court 1 2:00-3:45 p.m.

**INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) CHIEF MEDICAL OFFICERS MEETING**  
 Grand Ballroom 2:00-4:00 p.m.

**IAASM GENERAL ASSEMBLY**  
 Columbine 3:00-5:30 p.m.



AsMA AEROSPACE SAFETY--CIVIL AVIATION  
SUBCOMMITTEE MEETING  
Plaza Court 3 3:00-4:00 p.m.

AsMA AEROSPACE SAFETY--MILITARY AVIATION  
SUBCOMMITTEE MEETING  
Plaza Court 5 3:00-4:00 p.m.

AsMA AEROSPACE SAFETY COMMITTEE MEETING  
Director's Row E 4:00-5:30 p.m.

AsMA SCIENCE AND TECHNOLOGY COMMITTEE MTG  
Plaza Court 1 4:30-6:30 p.m.

SPACE MEDICINE ASSOCIATION AWARDS COMMITTEE  
Plaza Court 4 5:00-7:00 p.m.

AMSRO MEETING  
Tower Court B 5:30-6:30 p.m.

INTERNATIONAL AEROMEDICAL TRAINING CORPORATE  
Plaza Court 1 5:30-6:30 p.m.

HARVARD SCHOOL OF PUBLIC HEALTH ALUMNI,  
FRIENDS, AND PROSPECTIVE STUDENTS RECEPTION  
Governor's Square 16 5:30-6:30 p.m.

JOHNS HOPKINS RECEPTION  
Governor's Square 10 5:30-6:30 p.m.

**INTERNATIONAL ASSOCIATION OF MILITARY FLIGHT  
SURGEON PILOTS (IAMFSP) RECEPTION/MEETING**  
Columbine 5:30-7:00 p.m.

## TWO RECEPTIONS IN ONE!

**RECEPTION TO HONOR  
MULTI-NATIONAL MEMBERS**  
Tuesday, May 2, 6:30 - 8:30 p.m.  
South Convention Lobby

(Sponsored by Environmental Tectonics Corporation)

**ASSOCIATE FELLOWS AND FELLOWS RECEPTION**  
Tuesday, May 2, 7:00 - 9:00 p.m.  
Windows

*Even if you are not an Associate Fellow or Fellow, you are welcome to attend to learn more. We look forward to seeing you!*

**Open to ALL!**  
(One ticket required for both events)

## WEDNESDAY, May 3, 2017

AMERICAN SOCIETY OF AEROSPACE MEDICINE  
SPECIALISTS (ASAMS) MEETING  
Columbine 7:00-8:30 a.m.

RESIDENCY MEETING  
Plaza Court 2 7:00-8:00 a.m.

AsMA RESOLUTIONS COMMITTEE MEETING  
Plaza Court 4 8:00-9:30 a.m.

CASA MEDICAL RECORDS SYSTEM DEMO  
Director's Row E 8:00-10:00 a.m.

## WEDNESDAY LUNCHEONS

**AsMA ANNUAL WING LUNCHEON & BOARD MEETING**  
Brown Palace Hotel Club Room 11:30 a.m.-3:00 p.m.

**AEROSPACE NURSING SOCIETY LUNCHEON**  
Governor's Square 11 12:00-2:00 p.m.

**SOCIETY OF NASA FLIGHT SURGEONS LUNCHEON  
AND MEETING**  
Windows 12:00-2:00 p.m.

**AEROSPACE PHYSIOLOGY SOCIETY LUNCHEON**  
Governor's Square 10 12:00-2:00 p.m.

**IBERO-AMERICAN ASSOCIATION OF AEROSPACE  
MEDICINE LUNCHEON & BUSINESS MEETING**  
Director's Row H 12:00-4:00 p.m.

**ALL ARE WELCOME TO ATTEND ANY SOCIETY EVENTS.**

**SPEED MENTORING**  
Tower Court A 10:00 a.m.-12:00 p.m.

**EUROPEAN AVIATION AUTHORITIES' CHIEF MEDICAL  
OFFICERS MEETING**  
Director's Row H 10:00-11:00 a.m.

**EUROPEAN SOCIETY OF AEROSPACE MEDICINE (ESAM)  
MEETING**  
Columbine 12:00-4:00 p.m.

**UNINHABITED AERIAL SYSTEMS MEDICAL ISSUES' OBVA**  
Governor's Square 14 12:00-1:30 p.m.

**USAF PILOT-PHYSICIAN MEETING**  
Plaza Court 4 12:00-2:00 p.m.

**PACAF FLIGHT SURGEONS CONFERENCE**  
Plaza Court 2 12:30-1:30 p.m.

**AIR MOBILITY COMMAND BREAKOUT BUSINESS MTG**  
Director's Row E 1:00-2:30 p.m.

**BELLAGIO INTERNATIONAL SUMMITT UPDATE**  
Plaza Court 4 3:00-4:00 p.m.

**AEROSPACE PHYSIOLOGY BOARD CERTIFICATION  
EXAM REVIEW**  
Tower Court B 3:00-5:00 p.m.

**INTERNATIONAL PULMONARY AND SLEEP WORKING  
GROUP**  
Plaza Court 6 3:00-5:00 p.m.

## 14TH ANNUAL ALL AEROMEDICAL SOCIAL

**Wednesday, May 3,  
6-10 p.m.**

**Wings Over the Rockies  
Air & Space Museum**



Colorado's official air and space museum Hangar 1 of Lowry AFB, established 1937 Museum & gift shop will be open. Live music, Colorado cuisine, locally brewed beer. Tickets only \$20 available at Society of US Naval Flight Surgeons table or online at [www.susnfs.com](http://www.susnfs.com).

AEROSPACE HUMAN FACTORS ASSOCIATION  
MEETING  
Tower Court C 4:00-5:00 p.m.

SPACE MEDICINE ASSOCIATION & AMSRO MEETING  
Plaza Court 3 4:00-7:00 p.m.

AsMA AEROSPACE HUMAN PERFORMANCE COMMITTEE  
MEETING  
Tower Court C 5:00-6:00 p.m.

SoUSAFFS RECEPTION  
Windows Room 5:30-7:00 p.m.

## THURSDAY, MAY 4, 2017

AsMA COUNCIL MEETING (JOINT SESSION)  
Silver 7:00-8:00 a.m.

MOTION SICKNESS, VESTIBULAR, SPATIAL  
DISORIENTATION RESEARCHERS BREAKFAST  
Governor's Square 10 7:00- 8:10 a.m.

### 52nd ARMSTRONG LECTURE THURSDAY, MAY 4 GRAND BALLROOM

8:15-9:15 a.m.

Lecturer: Kevin Fong

Title: "Extremes: The Fastest Century"

(Educational support by Environmental  
Tectonics Corporation)

\*\*\*\*\*

NOTE: ALL THURSDAY SCIENTIFIC SESSIONS AND  
LUNCHEONS BEGIN 1/2 HOUR EARLY.

AsMA PILOT MENTAL HEALTH WORKING GROUP  
Director's Row H 10:00-11:30 a.m.

AEROSPACE PHYSIOLOGY SOCIETY BUSINESS  
MEETING  
Tower Court B 11:30 a.m.-1:30 p.m.

### SPACE MEDICINE ASSOCIATION LUNCHEON & MEETING Grand Ballroom 11:30 a.m.-1:30 p.m.

### HISTORIC FILM SERIES THURSDAY, MAY 4, 2017 DIRECTOR'S ROW E

11:30 a.m. - 1:15 p.m.

"Only Angels Have Wings"  
1939

Directed by Howard Hawks  
Starring Cary Grant and Jean  
Arthur, with Rita Hayworth



Introduced by Walt Dalitsch, former  
Chair of the History and Archives Committee, with trivia, human fac-  
tors and aeromedical aspects of the film...both on screen and behind  
the scenes during filming! . Based on several real aviation incidents  
witnessed by the director, the film features several magnificent flying  
sequences. This drama takes place near the Andes Mountains in  
South America, but was filmed in the Rocky Mountains of Colorado.

This film is provided by the AsMA History and Archives Committee.

## HONORS NIGHT THURSDAY, MAY 4, 2017

Honors Night is sponsored in part by  
Jeffrey C. and Debra S. Sventek

RECEPTION  
Grand Ballroom Foyer  
Cash Bar 6:00-7:00 p.m.

BANQUET, AWARDS, AND  
HONORS  
Grand Ballroom 7:00-9:00 p.m.

AFTER PARTY--OPEN TO ALL!  
COME DOWN AND KICK BACK!  
Grand Ballroom Foyer  
Music & Cash Bar 9:00-11:00 p.m.

INTERNATIONAL ACCELERATION INTEREST GROUP  
LUNCHEON (by invitation only; sponsored by ETC)  
Governor's Square 10 11:30 a.m.-1:30 p.m.

## FRIDAY, MAY 5, 2017

AsMA AWARDS COMMITTEE MEETING  
Tower Court B 3:45-5:00 p.m.

USAF AEROSPACE MEDICINE CORPORATE BOARD  
Silver 7:30 a.m.-2:30 p.m.

HYPOXIA TECHNICAL INTERCHANGE MEETING  
Spruce 8:00 a.m.-5:00 p.m.

ICAO MEETING--By Invitation Only  
Denver 9:00 a.m.-12:00 p.m.

### ADDITIONS AND CORRECTIONS TO THE SCIENTIFIC PROGRAM

**Changes:** There are several instances where the original  
presenter could not attend and the abstract will be pre-  
sented by a colleague. Announcements will be made during  
the sessions. The order of some presentations has changed.

**Abstracts:** The following abstracts have been withdrawn,  
as of press time: 172, 238, 296, 334

### Posters!

Posters will be set up in the Exhibit Hall.

All Posters should be posted in the morning of the day they are  
scheduled and remain up for the entire day. Presenters are re-  
quired to be present to discuss their posters during the allotted  
timeframe in the morning or afternoon: 10:00-12:00 or 1:30 -3:30  
on Wednesday or 9:30 - 11:30 or 1:30-3:30 on Thursday. Poster  
authors must be present for the full morning or afternoon session  
in which their poster is scheduled. The poster can remain up all  
day.

### PROCEEDINGS AVAILABLE FROM INTELLIQUEST MEDIA:

<https://www.intelliquestmedia.com>

## Additional Exhibits & Descriptions

(Other Exhibits and Map are listed in the Program on p. 349-352.)

The AsMA Welcome to Denver event will be held in the Exhibit Hall on Sunday, April 30th, from 6:30-8:30 p.m.. Exhibits will be open during the reception, as well as between the hours of 9:30 a.m. and 4:30 p.m. Monday, May 1 and Tuesday, May 2. We urge all everyone to visit the exhibits - they are worth the time. (All product names in the following descriptions are registered trademarks.)

Coffee Service provided in part by ETC

### COMPANIES.....BOOTH NO.

**AMST - Systemtechnik GmbH** 201  
Lamprechtshausner Strasse 63, P.O. Box 3  
Ranshofen, AUSTRIA A-5282  
+43 77 22 89 21  
e-mail: sales@amst.co.at  
website: www.amst.at

AMST has been established for 30 years and has an extensive product portfolio. AMST is the market leader in specialist military and civil Aviation & Space Medicine and Aircrew Training Technology. AMST is a centre of excellence for high technology and is dedicated to research, design, and improving flight safety.

**CAE Healthcare** 306  
6300 Edgelake Drive,  
Sarasota, FL 34240  
941/536-2845  
866/233-6384 (Toll Free)  
e-mail: caehealthcare@cae.com  
website: www.caehealthcare.com

CAE Healthcare delivers healthcare training solutions to hospitals, physicians, nurses, students, emergency responders and military organizations worldwide. Visit the CAE Healthcare booth to learn about our newest patient, imaging and interventional simulators, including Vimedix AR, Apollo and Cut Suit. Ask about our Replay and LearningSpace audiovisual solutions.

**CRC Press / Taylor & Francis Group** 202  
6000 Broken Sound Pkwy, NW, Suite 300  
Boca Raton, FL 33487  
561/998-2507  
800/272-7737 (Toll Free)  
website: www.crcpress.com

CRC Press - Taylor & Francis Group is a global publisher of print and electronic books for medical, scientific and technical communities. Visit our booth to browse our new and bestselling publications and take advantage of convention discounts.

**ETC (description change)** 118  
Environmental Tectonics Corporation (ETC) has been providing turnkey solutions to the aeromedical and flight training markets for over 47 years with high performance training and research devices, operator and instructor training, curriculum development, and full life cycle support while offering comprehensive human factors training, test and validation, and research services at its NASTAR Center facilities.

**General Sleep Corporation** 205  
26250 Euclid Avenue, Suite 709  
Euclid, OH 44132  
216/289-2331 (x1001)  
888-330-4424 (Toll Free)  
e-mail: info@generalsleep.com  
website: www.generalsleep.com

General Sleep Corporation introduces the Zmachine Synergy, a next generation home sleep test to be used in the diagnosis of sleep-related breathing and movement disorders. The Zmachine Synergy incorporates General Sleep's most advanced single-channel EEG sleep staging technology with cutting-edge respiratory and motion sensors for unparalleled accuracy and sensitivity.

**Human Solutions of North America, Inc.** 305  
1857 Evans Rd.,  
Cary, NC 27513  
919-741-6130 (x123)  
website: www.human-solutions.com  
Human Solutions has developed high end software products for over 20

years. Our products range from 3D digital human modelling software, body scanning technology, and digital uniform sizing and fitting. These solutions are utilized by a variety of defense forces around the world.

**Remote Diagnostic Technologies Ltd.** 418  
Pavilion C2, Ashwood Park  
Ashwood Way, Basingstoke  
Hants., UK RG23 8BG  
+44 1 256 362 425  
email: lnoble@rdttd.com; info@rdttd.com  
website: www.rdttd.com

RDT is an ambitious and entrepreneurial SME. Over the last 20 years, we have pioneered the development of compact, easy to use, portable medical monitors that measure and transmit vital signs to highly trained medical support teams. Designed specifically for use in remote and challenging environments; Tempus IC2 provides valuable support to pilots and crew in a medical situation at altitude.

**U.S. HealthWorks** 407  
25124 Springfield Court, Suite 200  
Valencia, CA 91355  
661/678-2653  
website: www.ushealthworks.com

U.S. HealthWorks, a subsidiary of Dignity Health, was founded in 1995 and is the leading national provider of occupational medicine and urgent care services. U.S. HealthWorks Medical Group offers programs and services that can help prevent illnesses, maintain good health, and provide early intervention and rehabilitation whenever injuries or health problems occur.

### SCIENTIFIC (Not-for-Profit) EXHIBITORS

**AFBA - Armed Forces Benefit Association** 408  
909 North Washington Street,  
Alexandria, VA 22314  
703/549-4455(706-5973)  
800/776-2322 (Toll Free)  
website: www.afba.com

AFBA provides life insurance in both war and peace to those who serve this great nation including military, first responders, and government employees. Unlike many other insurance companies, AFBA's insurance coverage continues to have no war or terrorism exclusions. AFBA also offers other financial benefits and services to its members.

**American Board of Preventive Medicine (ABPM)** 208  
111 West Jackson Blvd., Suite 1340  
Chicago, IL 60604  
312/939-ABPM(2276)  
website: www.theabpm.org

The American Board of Preventive Medicine certifies physicians in the specialties of Aerospace Medicine, Occupational Medicine, and Public Health and General Preventive Medicine, as well as the subspecialties of Addiction Medicine, Clinical Informatics, Medical Toxicology, and Undersea and Hyperbaric Medicine. The ABPM is one of the 24 Member Boards of the American Board of Medical Specialties (ABMS).

**King's College London** 410  
SOBHS Rm 4.2, Shepherd's House, Guy's Campus  
London, UNITED KINGDOM SE1 1UL  
+44 2 078 486 326  
website: www.kcl.ac.uk

KCL offers programmes of undergraduate and postgraduate teaching in medicine and science, including aerospace medicine and physiology. Also available are Diploma in Aviation Medicine and Masters in Space Physiology & Health or Human & Applied Physiology.

**The Henry M. Jackson Foundation for the Advancement of Military Medicine** 414  
6720 Rockledge Dr., Ste. 100  
Bethesda, MD 20817  
240-586-0311  
website: www.hjff.org

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. is a private, not-for-profit organization authorized by Congress to support medical research and education at the Uniformed Services University and throughout the military community. Our workforce of 2,450 provides scientific and research services to medical researchers worldwide.

# FAA SCHEDULE

## MONDAY, MAY 1, 2017

10:30 (R) COURSE DOCUMENTATION--DEANN KING  
 11:00 (R) MEDICAL PROGRAMS, POLICIES & STANDARDS--MICHAEL BERRY  
 12:00 LUNCH  
 2:00 (R) AMCS--JANA WEEMS  
 3:00 BREAK  
 3:15 (R) MEDICAL LEGAL--COLE MILLIARD  
 4:15 (E) AME OVERVIEW--WARREN SILBERMAN  
 5:00 (E) FAA DUI POLICY--MATT DUMSTORF  
 5:45 ADJOURNMENT

## TUESDAY, MAY 2, 2017

8:30 (R) REINARTZ LECTURE (GRAND BALLROOM)--MICHAEL BERRY  
 10:00 BREAK  
 10:15 (R) OTORHINOLARYNGOLOGY--DAVID SCHALL  
 11:10 (R) OPHTHALMOLOGY--HARRIET LESTER  
 12:25 LUNCH  
 1:25 (R) NEUROLOGY--ROGER HESSELBROCK  
 2:20 BREAK  
 2:35 (R) CARDIOLOGY--JOHN RANIOLO  
 3:30 (R) PSYCHIATRY / MENTAL HEALTH--CHARLES CHESANOW  
 4:25 BREAK  
 4:40 (R) ADDICTION--CHARLES CHESANOW  
 5:35 ADJOURNMENT

## WEDNESDAY, MAY 3, 2017

8:00 (E) Panel: Would You Fly With This Pilot?  
 Moderator: MICHAEL BERRY  
 Panel Participants: Charles Chesanow, Roger Hesselbrock, Harriet Lester, John Raniolo, David Schall  
 9:30 BREAK  
 9:45 (R) AME PERFORMANCE--WARREN SILBERMAN  
 10:30 (E) CERTIFICATION PROCESSES--ARNOLD ANGELICI  
 11:15 (F) CACI UPDATES - VIDEO  
 12:15 LUNCH  
 2:00 (F) SLEEP APNEA / FATIGUE--DAVID SCHALL  
 3:00 BREAK  
 3:15 (F) MALIGNANCY--WARREN SILBERMAN  
 4:15 (E) MEDICATIONS--WARREN SILBERMAN  
 5:00 ADJOURNMENT

## THURSDAY, MAY 4, 2017

8:00 (F) CACI UPDATES - VIDEO  
 9:00 (F) MALIGNANCY--WARREN SILBERMAN  
 10:00 BREAK  
 10:15 (F) SLEEP APNEA / FATIGUE--DAVID SCHALL  
 11:15 (E) USING THE AME GUIDE--WARREN SILBERMAN  
 12:00 ADJOURNMENT

### FOR AME DESIGNATION CREDIT YOU MUST ATTEND:

ALL (R) – REQUIRED SESSIONS

ONE EACH OF (F) – FLEXIBLE SESSIONS:

CACI UPDATES; SLEEP APNEA / FATIGUE;

MALIGNANCY

ONE (E) – ELECTIVE SESSION

YOU MUST RETURN YOUR REGISTRATION AND TEST ANSWER SHEETS IMMEDIATELY AFTER ADJOURNMENT ON THURSDAY TO RECEIVE CME AND DESIGNATION CREDIT. NO TESTS WILL BE ACCEPTED AFTER THURSDAY, MAY 4, 2017.

## Future AsMA Annual Scientific Meetings

May 6-10, 2018  
 Hilton Anatole Hotel  
 Dallas, TX

May 5-9, 2019  
 Rio All Suites  
 Las Vegas, NV

May 17-21, 2020  
 Hyatt Regency Atlanta  
 Atlanta, GA



# Gather Digital

**Gather Digital will be providing the mobile app for our meeting in Denver: AsMA2017.**

Gather Digital is a leading provider of conference and organization mobile apps. We offer a mobile app suite comprised of native iPhone, iPad, and Android apps, as well as mobile web apps for other smartphones and computer browsers—all branded for the client. The client controls the app through the intuitive Online Dashboard and a Gather Digital project manager is available to help along the way. Gather Digital offers single event, multi-event and organization apps.

## The AsMA "Gift Shop"

See our booth in the  
 Registration Area



<b>Crossland Microfleece Jackets</b>	<b>\$30</b>
Blue, zip front, embroidered AsMA logo, men's and women's sizes.	
<b>Button down shirts--Men's and Women's styles:</b>	<b>\$30</b>
Tan cotton with Color AsMA embroidered logo	
<b>Brief Bags</b>	<b>\$25</b>
AsMA's logo printed in Color on Black bag. Great for Travel!!	
<b>AsMA Sports Water Bottle</b>	<b>\$10</b>
fits wonderfully with the Brief Bag!	
<b>AsMA Logo Polo shirts:</b>	<b>\$25</b>
White or Navy, Limited sizes	
<b>T-Shirts:</b>	<b>\$15</b>
They are 100% cotton, gray with navy logo or navy with white logo in limited sizes.	
<b>PINS: AsMA, Fellows, and Associate Fellows</b>	<b>\$5</b>
<b>Travel Mug:</b>	<b>\$10</b>
Keep your coffee warm as you walk from session to session.	
<b>Publications</b>	
<b>Self-Assessment CD-ROM</b>	<b>\$10</b>
With over 900 questions and answers, it's a great way to prepare for boards and other professional exams.	
<b>Rayman's Clinical Aviation Medicine, 5th ed.</b>	<b>\$25</b>

## Ever Upward

For the latest AsMA News please read our Newsletter "Ever Upward" online at : <http://www.asma.org/news-events/asma-news-archive/newsletters>



## CONTINUING EDUCATION INFORMATION & INSTRUCTIONS

### Designation Statements

- The Undersea and Hyperbaric Medical Society (UHMS) 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.
- The Administrative Committee of the AOA Council on Continuing Medical Education approved the 88th Annual Scientific Meeting of the Aerospace Medical Association (AsMA) for a maximum of 22.5 AOA Category 1-B credits. Each physician should claim only those credits that he/she actually spent in the activity.
- This live activity, 88th Annual Scientific Meeting of the Aerospace Medical Association, with a beginning date of 05/01/2017, has been reviewed and is acceptable for up to 22.5 Prescribed credits by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
- This continuing nursing education activity was approved by the Montana Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This continuing nursing education activity is approved for 22.5 contact hours. Nurses 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 AsMA 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 UHMS, its affiliates or its employees.

### Statement of Independence

The AsMA has a policy of ensuring that the content and quality of this educational activity are balanced, independent, objective, and scientifically rigorous. The content of this activity was developed under the supervision of the AsMA's Scientific Program Committee, according to the following specifications:

1. All the recommendations involving clinical medicine in a CME activity must be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients.
2. All scientific research referred to, reported, or used in CME in support or justification of a patient care recommendation must conform to the generally accepted standards of experimental design, data collection, and analysis.

The AsMA has rigorously reviewed the content or format of the CME activity and/or its related materials to ensure they promote improvements or quality in healthcare and not a specific proprietary business interest of a commercial interest, as well as to confirm that presentations give a balanced view of therapeutic options. Use of generic names will contribute to this impartiality. If the CME educational material or content includes trade names, where available trade names from several companies have been used, not just trade names from a single company.

### Financial Relationships Disclosure Statement

All persons (planners, reviewers, and faculty/presenters) in position to control the content of this activity are required to disclose any relevant financial relationships (including those of a spouse/partner) occurring within the last 12 months with any commercial interests (as defined by the ACCME).

A commercial interest is any entity producing, marketing re-selling, or distributing health care goods or services consumed by, or used on, patients. The ACCME does not consider providers of clinical services directly to patients to be commercial interests.

Financial relationships are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria for promotional speakers' bureau, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including

contracted research), consulting speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received, or expected. ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner.

### Conflict of Interest

Circumstances create a conflict of interest when an individual has an opportunity to affect CME content about products or services of a commercial interest with which he/she has a financial relationship.

The intent of this disclosure is not to prevent CME planners, reviewers, faculty/presenters with relevant financial relationships from planning or delivery of content, but rather to provide learners with information that allows them to make their own judgments of whether these financial relationships may have influenced the educational activity.

The AsMA has reviewed all disclosures and resolved or managed all identified conflicts of interest, as applicable. AsMA Planners, Reviewers and Faculty/Presenters associated with the development of content for this activity reported no relevant financial relationships, except for the following:

- Marck Haerkens Founder Wings of Care – Netherlands
- Kenton Gregory Stock RevMedX, Inc

All relevant financial relationships have been resolved prior to the start of this activity. Faculty (Presenter) disclosures will also be made at the beginning of each presentation.

### Appropriate Management of Commercial Support

The AsMA's Scientific Program Committee has authority and complete control of the planning and implementation of this educational activity and attests to the fact that it was planned and implemented independent of grant support and in accordance with the ACCME's Essential Areas and Elements, including the Standards for Commercial Support. The following have provided commercial support for this activity:

- Environmental Tectonics Corporation: \$1,000 Exhibit Hall Coffee/Tea Service
- Environmental Tectonics Corporation: \$1,000 Armstrong Lecture Honorarium
- Environmental Tectonics Corporation: \$5,000 Reception to Honor Multi-National Members
- Environmental Tectonics Corporation: \$3,000 International Acceleration Interest Group Luncheon
- Harvey Watt & Company: \$1,500 AsMA President's Reception
- KBRwyle: \$1,000 Digital Meeting App
- Kings College London: £ 5000 AsMA President's Reception
- Mayo Clinic: \$1,250 (Rochester, MN) and \$1,250 (Scottsdale, AZ) for Welcome Reception
- ZOLL Medical: \$500 Digital Meeting App

### Policy on Unlabeled/Off-Label Use

The AsMA has determined that disclosure of unlabeled/off-label or investigational use of commercial product(s) is informative for audiences and therefore requires this information to be disclosed to the learners at the beginning of the presentation. Uses of specific therapeutic agents, devices, and other products discussed in this educational activity may not be the same as those indicated in product labeling approved by the Food and Drug Administration (FDA). The AsMA requires that any discussions of such "off-label" use be based on scientific research that conforms to generally accepted standards of experimental design, data collection, and data analysis. Before recommending or prescribing any therapeutic agent or device, learners should review the complete prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

### Instructions for Obtaining CME

The following are required to obtain educational credit for this activity:

- Register for the conference and sign in for the activities, as required.
- Complete the post-activity evaluation form for each session attended
- After we receive your completed evaluation, we will forward a certificate of completion for you to use as documentation of attendance.

### Plaza Concourse

The floor plan of the Plaza Concourse includes the following areas and features:

- Top Section:** SERVICE & EXIT, FREIGHT ELEVATOR, HEART OF EXIT HOUSE ONLY, EXIT ONLY, WOMEN, MEN.
- Central Section:** PLAZA BALLROOM (divided into areas A, B, C, D, E, F), EXIT, PLAZA EXHIBIT/FOYER, ESCALATOR, PLAZA REGISTRATION OFFICE, TO PARKING GARAGE, STOR., 9, 10, 11, 12, 8, 7, 6.
- Left Section:** TO TOWER ELEV, CLIENT OFFICE 2, CLIENT OFFICE 1, GOVERNORS SQUARE (rooms 14, 15, 16, 17).
- Right Section:** WOMEN, MEN, EXIT EL, 1, 2, 3, 4, 5.

The floor plan is divided into two main sections: the Plaza Lobby and the Third Level.

**Plaza Lobby:**

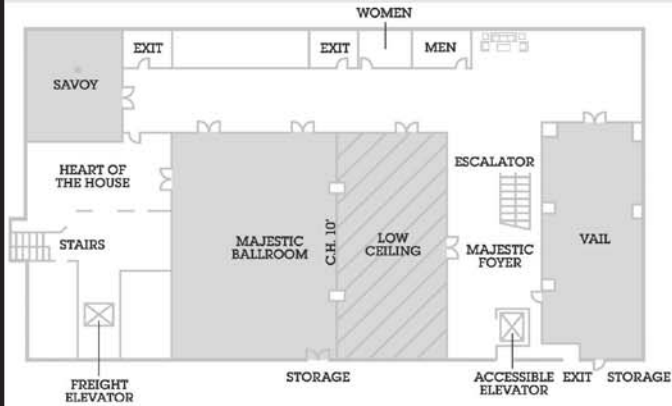
- At the top are rooms H, I, and J.
- Below room H is room G, which is labeled "SERVICE".
- Below room G is another "SERVICE" area.
- Below the "SERVICE" area is room F, which is labeled "EXIT".
- Below room F is room E, which is labeled "SERVICE & EXIT".
- At the bottom of the lobby are the "ELEVATORS".
- Between rooms I and J are restrooms labeled "WOMEN" and "MEN".
- Below the restrooms is a "SERVICE & EXIT" area.
- A path leads from the elevators "TO LOBBY".

**Third Level:**

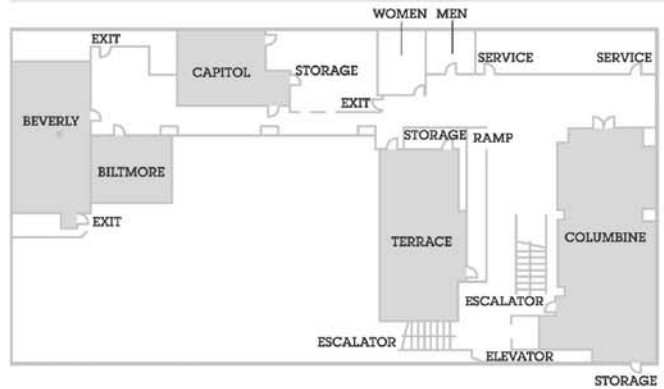
- At the top is a large area labeled "Meeting Rooms".
- Below the "Meeting Rooms" is another "Meeting Rooms" area.
- Between the two "Meeting Rooms" areas are restrooms.

The floor plan shows a central corridor connecting three main areas. At the top left is a large rectangular area labeled "Meeting Rooms". At the top right is another large rectangular area labeled "Meeting Rooms". In the center is a smaller rectangular area labeled "44". A corridor runs horizontally between the top two "Meeting Rooms" areas, containing a restroom symbol (two figures). A vertical corridor runs down the right side of the "44" room, containing an elevator symbol (a box with four horizontal lines). At the bottom of this vertical corridor is another restroom symbol (two figures) and a square symbol with an 'X' inside.

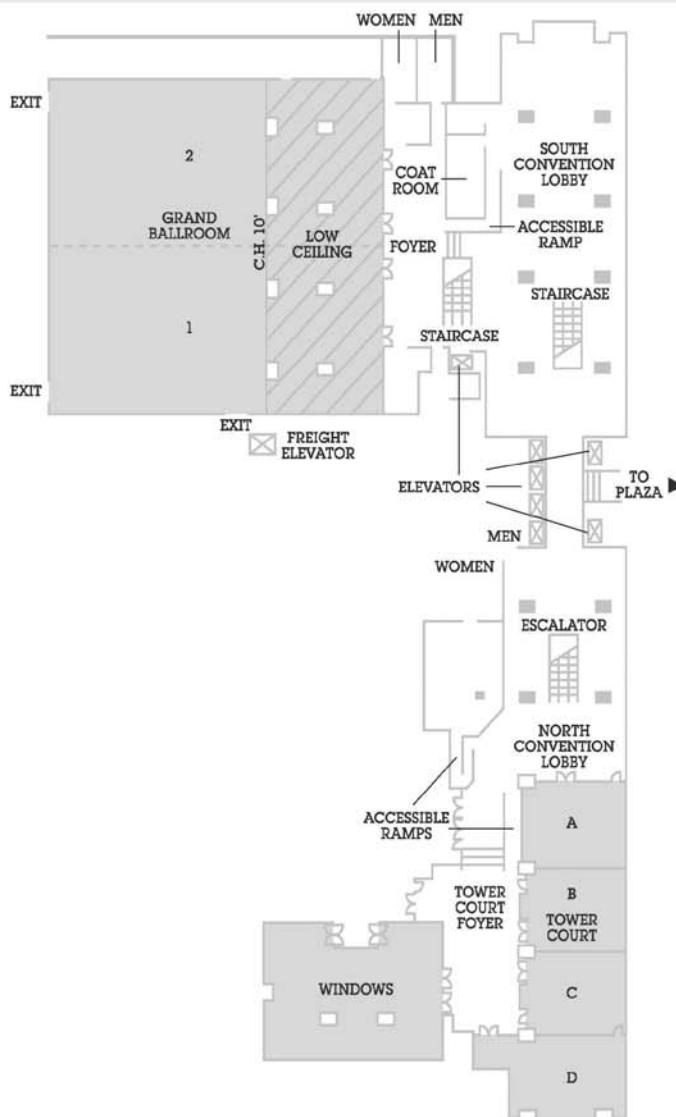
## I.M.Pei Tower Majestic Level



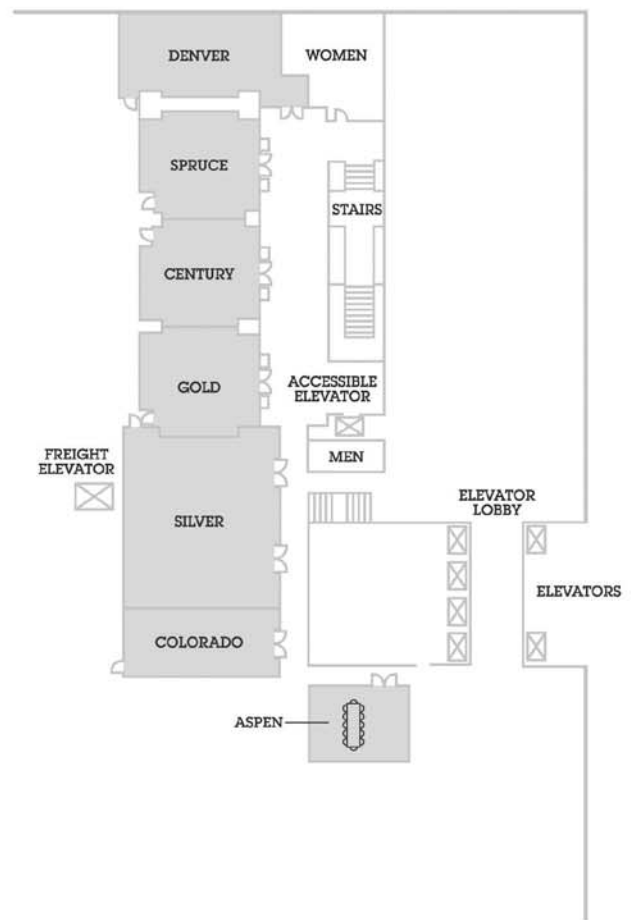
## I.M.Pei Tower Terrace Level



## I.M.Pei Tower Level 2



## I.M.Pei Tower Mezzanine Level



# Meeting Schedule

## 88th Annual Scientific Meeting

### DENVER, Colorado, APRIL 30 - May 4, 2017

Sunday								
8:00 a.m. - 5:30 p.m.	Sunday Workshops: S-001. INJURY MECHANISMS ANALYSIS IN AIRCRAFT & AUTOMOBILE ACCIDENT INVESTIGATIONS WORKSHOP							
8:00 a.m. - 5:00 p.m.	S-002. INTRODUCTION TO AEROSPACE EPIDEMIOLOGY							
9:00 a.m. - 4:00 p.m.	S-003. AIRCREW FATIGUE: CAUSES, CONSEQUENCES, AND COUNTERMEASURES							
12:00 noon - 3:00 p.m.	S-004. AEROSPACE MEDICINE FACULTY DEVELOPMENT WORKSHOP							
Monday								
	FAA will be in IM Pei Tower, Majestic Ballroom							
8:00 a.m. - 9:30 a.m.	PLAZA BALLROOM OPENING CEREMONIES AND 63rd LOUIS H. BAUER LECTURE—Michael R. Barratt, M.D.							
	Plaza A/B 540	Plaza D/E 540	Plaza F 360	Gov. Square 14 183	Gov. Square 15 183	Gov. Square 12 107	Gov. Square 11 94	Gov. Square 10
10:30 a.m. - 12:00 noon	S-006 PANEL: CLINICAL Occupational Injuries in Cabin Crew	S-007 PANEL: HP Sleep Issues in Demanding Operational Contexts	S-008PANEL: SPACE Spaceflight Decompression Sickness	S-009 SLIDE: CLINICAL Can I Fly with This?	S-010 PANEL HP Augmenting Performance with Transcranial DC	S-011 PANEL: ATM Flight Safety After the Germanwings Accident	S-012 PANEL: CLINICAL Brain Matters	S-013 PANEL: OTHER Aircraft Air Quality Measurements
12:00 noon - 2:00 p.m.	SPECIAL LUNCHEONS—CAMA, Navy, Air Force, Army, Aerospace Human Factors, Corporate Forum							
2:00 p.m. - 3:30 p.m.	S-014 PANEL: CLINICAL Premature or Traumatic Birth—Issues for Flight Certification	S-015 SLIDE: HP Fatigue	S-016 PANEL: SPACE Space Environment Medical Support—Russia	S-017 PANEL: CLINICAL (In Spanish) Advances in Aerospace Medicine in IberoAmerica	S-018 PANEL: HP Superman Readiness Skills Verification for Flight Surgeons	S-019 PANEL: ATM Prescribing Cabin Altitude Restriction for Patient Aeroveac	S-020 PANEL: CLINICAL Research in Aerospace Medicine, Pt. 1: Initiating the Research Effort	S-021 PANEL: CLINICAL Aeromedical Risk Analysis Practice Updates: Part 1
4:00 p.m. - 5:30 p.m.	S-022PANEL: CLINICAL Eating Disorders in Military—Impact on Aerospace Medicine	S-023 PANEL: HP Psychological Readiness Eval. & Medical Standards for Battlefield Air Duty	S-024 SLIDE: SPACE Space Environment Countermeasures & Risks	S-025 PANEL: CLINICAL Advances in Diagnosis Impact Aviation Medicine	S-026 PANEL: HP Battlefield Airmen Systems in Support of HP Optimization	S-027 PANEL: ATM Airline Medical Support—Adapt or Perish	S-028 PANEL: CLINICAL Research in Aerospace Medicine, Pt. 2: Conducting, Analyzing, Reporting	S-029 PANEL: CLINICAL Aeromedical Risk Analysis Practice Updates: Part 2
Tuesday								
8:30 a.m. - 10:00 a.m.	GRAND BALLROOM—4th MEMORIAL REINARTZ LECTURE—Michael A. Berry, M.D.							
10:30 a.m. - 12:00 noon	S-030 PANEL: CLINICAL Sex and the Naval Aviator: HPV Disease Burden	S-031 PANEL: HP Neurologic Effects of Hypobaric Exposure	S-032 PANEL: SPACE Centrifuge-Simulated Suborbital Spaceflight: Training and Anxiety	S-033 PANEL: SAFETY Characterizing the Naval Biodynamics Laboratory Legacy Impact Response Collection in the Biodynamics Data Resource	S-034 PANEL: HP Future of Aerospace Medicine with Leadership Development, Teaching and Learning Frameworks	S-035 SLIDE: ATM Design & Aircraft Considerations for Prevention	S-036 PANEL: OTHER (German) Research & Clinical Practice in Aerospace Medicine	S-005a PANEL: CLINICAL Board Review Pt. 1
12:00 noon - 2:00 p.m.	AEROSPACE MEDICAL ASSOCIATION LUNCH AND BUSINESS MEETING							
2:00 p.m. - 3:30 p.m.	S-037 PANEL: CLINICAL Motivation to Fly	S-038 PANEL: HP Risk Management: Biology, Psychology, and Training	S-039 SLIDE: SPACE Learning from Space	S-040 PANEL: SAFETY USAF Proactive Safety Programs—Education & Validation	S-041 PANEL: HP Hyperbaric Oxygen Toxicity: NASA Neutral Buoyancy Lab	S-042 SLIDE: ATM Guidelines & Processes for Inflight Medical Emergencies	S-043 PANEL: OTHER Penguins and Kiwis— Non-Flyers who Opened the Doors to Aerospace Medicine	S-005b PANEL: CLINICAL Board Review Pt. 2
4:00 p.m. - 5:30 p.m.	S-044 PANEL: CLINICAL Advanced Aerospace Medicine for International Medical Officers (AAMIMO) Case Reports	S-045 SLIDE: HP Aerospace Physiology in Action	S-046 SLIDE: SPACE Human System Integration in Exploration Habitats	S-047 SLIDE: SAFETY Challenges, Mitigation, and Investigations	S-048 PANEL: HP Everything Old is New Again	S-049 SLIDE: OTHER Health & Welfare of Aircrew Pt. 1	S-050 PANEL: OTHER Aerospace Dentistry	S-005c PANEL: CLINICAL Board Review Pt. 3
Wednesday								
8:30 a.m. - 10:00 a.m.	S-051 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 1	S-052 PANEL: OTHER Rocky Mountain High: Civil Medical Operations in a Mountain Environment	S-053 SLIDE: SPACE Advances in Space Medicine	S-054 SLIDE: SAFETY Human Factors in Aviation Protection and Safety	S-055 PANEL: CLINICAL Complex Problems, Novel Solutions: Jr. USAF Flight Surgeons Leading Innovation	S-056 PANEL: ATM Harmonization of Aeromedical Assessments: European CMO Forum	S-057 PANEL: SPACE Lessons from MOL: How Manned Orbiting Laboratory Contributed to Aerospace Medicine	EXHIBIT HALL 10:00-12:00 S-058 POSTERS: HP Hypoxia & Hypo/ Hyperbaria, Musculoskeletal Issues & Acceleration
10:30 a.m. - 12:00 noon	S-059 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 2	S-060 PANEL: HP Operation Vision Research	S-061 SLIDE: SPACE Physiology of Spaceflight	S-062 PANEL: SAFETY Aerospace Safety Centers Year in Review: 2016	S-063 SLIDE: CLINICAL Brains, Blood, Breathing, and Worms	S-064 PANEL: ATM Evidence in En Route Care Simulation and Training Research	S-065 PANEL: OTHER Apollo 1 Mishap: Causes and Consequences from the Aeromedical Perspective	
12:00 noon - 2:00 p.m.	SPECIAL LUNCHEONS—Aerospace Nursing Society, Aerospace Physiology Society, Society of NASA Flight Surgeons, Ibero-American Association of Aerospace Medicine, Wing							
2:00 p.m. - 3:30 p.m.	S-066 PANEL: CLINICAL Aerospace Medicine Resident Grand Rounds: Pt 3	S-067 SLIDE: HP Cognition & Performance	S-068 SLIDE: SPACE Future of Space Medicine I	S-069 SLIDE: SAFETY Medical Causes of Aircraft Accidents	S-070 PANEL: CLINICAL USN Aeromedical Disposition— Challenging Cases from NAMI	S-071 SLIDE: OTHER Application of Aeromedical Principles to Healthcare Practices	S-072 PANEL: CLINICAL Adaptability Rating for Military Aviation	EXHIBIT HALL 1:30-3:30 S-073 POSTERS: HP Displays, Performance, Fatigue & Vision
4:00 p.m. - 5:30 p.m.	GRAND BALLROOM S-074 PANEL: CLINICAL RAM Bowl	SLIDE: HP S-075 Dodging Disorientation	SLIDE: SPACE S-076 Future of Space Medicine II	SLIDE: SAFETY S-077 Eyes-On	SLIDE: OTHER S-078 Health & Welfare of Aircrew Pt. II			
Thursday								
8:15 a.m. - 9:15 a.m.	GRAND BALLROOM—52nd HARRY G. ARMSTRONG LECTURE—Kevin Fong, M.B.B.S.							
10:00 a.m. - 11:30 noon	S-079 SLIDE: HP Vision	S-080 SLIDE: HP Emerging Research on Acceleration	S-081 PANEL: SPACE Mars Habitat Analogs	S-082 PANEL: CLINICAL NATO & EACTS Aviation Cardiology Working Group: Cardiovascular Challenges for Flight Surgeons	S-083 PANEL: HP Cutting Edge Technology in Optimizing Human Performance	S-084 PANEL: OTHER Ethical Dilemmas in Aerospace Medicine	S-085 SLIDE: CLINICAL From the Neck Up	EXHIBIT HALL 9:30-11:30 S-086 POSTERS: CLINICAL Space Medicine and Other Aeromedical Interests
11:30 a.m. - 1:30 p.m.	SPECIAL LUNCHEONS—Space Medicine Association							
1:30 p.m. - 3:00 p.m.	S-087 SLIDE: HP Hypoxia: The Hangover Part Deux	S-088 PANEL: HP Remote Combat Stress Impact and Mitigation: ISR in the Kill Chain	S-089 PANEL: SPACE Surgical Care in Space—Future Innovations—Pt 1	S-090 PANEL: CLINICAL Resident Research QI/Pt. Pt. 1	QI/Pt. Pt 1 S-091 SLIDE: HP Operative Performance Interface in Aerospace Operations	S-092 PANEL: ATM Impact of Aeromedical Evacuation on Patients	S-093 SLIDE: CLINICAL Cardiovascular Disease and Risk Factors	EXHIBIT HALL 1:30-3:30 S-094 POSTERS: CLINICAL Clinical and Operational Aerospace Medicine
3:30 p.m. - 5:00 p.m.	S-095 SLIDE: CLINICAL Personality & Mental Health Screening & Support	S-096 PANEL: HP Overview for Hearing Risk and Protection n Military Aviators	S-097 PANEL: SPACE Surgical Care in Space—Future Innovations—Pt 2	S-098 PANEL: CLINICAL Resident Research QI/Pt. Pt 2	S-099 SLIDE: ATM Testing & Equipment in Aeromedical Environs	S-100 PANEL: OTHER AMHP Journal Seminar on Writing, Submitting and Reviewing	S-101 SLIDE: HP Musculoskeletal Injury, Pain and Gain	
COLOR CODE	HUMAN PERFORMANCE (HP)	CLINICAL MEDICINE	TRAVEL & AIR TRANSPORT MEDICINE (ATM)	SPACE MEDICINE	SAFETY	OTHER/HISTORY		