

AEROSPACE MEDICAL ASSOCIATION & UNDERSEA AND HYPERBARIC MEDICAL SOCIETY JOINT MEETING



PROGRAM ADDENDUM MAY 22 - 27, 2022

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		10:00 a.m.–6:00 p.m.
Monday	7:00 – 8:00 a.m;	9:00 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.

Exhibit hours: Sunday Welcome Reception, 6:30-8:30 p.m.;
Monday and Tuesday 9:30 a.m.–4:30 p.m.

AsMA SPECIAL ROOMS

AsMA WING HOSPITALITY & REGISTRATION

Florence Room

Sunday, 1:00 – 5:00 p.m.
Monday, 10:00 a.m – 1:30 p.m.
Tuesday, 8:00 – 9:00 a.m.
Wednesday, 8:00 – 11:00 a.m.

WELCOME TO RENO



SUNDAY, MAY 22
6:30 - 8:30 PM

NAPLES BALLROOM
(Ticket Required)

Accreditation Statement (see also p. 8)

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 the 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 physicians-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).

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>

Visit Us on Social Media!

Twitter: https://twitter.com/aero_med

Facebook: www.facebook.com/AerospaceMedicalAssociation

LinkedIn: [https://www.linkedin.com/company/2718542?trk=tyah&trkInfo=tarId:1404740611720,tas:Aerospace Medical,idx:1-1-1](https://www.linkedin.com/company/2718542?trk=tyah&trkInfo=tarId:1404740611720,tas:Aerospace%20Medical,idx:1-1-1)

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. Podiumcast will email log-in instructions 2-3 weeks after the meeting. Visit Podiumcast on-site in Reno for a demo.

<https://www.podiumcast.com>

FRIDAY, MAY 20, 2022

COPE MEETING Naples 7	8:00 a.m. - 5:00 p.m.
IAMA EXECUTIVE COUNCIL MEETING Lakeview 1747	4:00 - 6:00 p.m.

SATURDAY, MAY 21, 2022

IAMA EXHIBITS Tuscany 5-6	7:00 a.m. - 5:30 p.m.
IAMA SCIENTIFIC MEETING Tuscany F	7:30 a.m. - 5:30 p.m.
COPE MEETING Naples 7	8:00 a.m. - 5:00 p.m.
NATO RTG 299-PULMONARY SCREENING OF AIRCREW Tuscany 12	8:00 a.m. - 5:00 p.m.
UHMS BOARD OF DIRECTORS MEETING Executive Boardroom 1735	1:00 - 4:00 p.m.
IAMA RECEPTION AND DINNER Capri 1-2	6:00 - 10:00 p.m.

SUNDAY, MAY 22, 2022

AEROSPACE PHYSIOLOGY CERTIFICATION BOARD TESTING Roma 2	7:00 a.m.-2:00 p.m.
AEROSPACE PHYSIOLOGY CERTIFICATION BOARD REVIEW Roma 1	7:00 a.m.-4:00 p.m.
COPE MEETING Naples 7	8:00 a.m. - 12:00 p.m.
AsMA REGISTRATION COMMITTEE MEETING Executive Boardroom 1735	8:00 - 9:00 a.m.
AsMA COUNCIL MEETING Capri 1-2	8:00 a.m.-2:00 p.m.
NATO RTG 320 Fatigue Management in Aircrew Sorrento 1	8:00 a.m. - 5:00 p.m.

CAMA SUNDAY

Tuscany F

8:00 a.m.-12:00 p.m.

(4 hours CME Credit from AAFP)

PROGRAM: Air Races

8:00 - 9:00 a.m. Reno Air Races Video, "You Never Know..." by John S. Raniolo, DO; Photo montage of the Reno Air Races by David G. Schall, MD, MPH

9:00 - 10:30 a.m. "Air Racing in a Unique Environment" by Frederick W. Telling, PhD

10:30-10:45 a.m. Break

10:45 a.m - 12:15 p.m. "Gravitational Loss of Consciousness (GLOC) in the Air Racing Environment" by Jerome P. LImoge, MD

CAMA Sunday is FREE & open to everyone.

SUNDAY WORKSHOPS

[S-01] AEROSPACE MEDICINE FACULTY DEVELOPMENT WORKSHOP

Tuscany 3 8:00 a.m. - 12:00 p.m.
(Designation Statement: The Undersea and Hyperbaric Medical Society designates this live activity for a maximum of 3.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity)

[S-02] AIRCREW SELECTION: APTITUDE, MOTIVATION, AND MENTAL HEALTH CONSIDERATIONS

Tuscany A 9:00 a.m. - 5:00 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)

[S-03]: MEETING THE CHALLENGES OF WORK-RELATED STRESS AND MENTAL HEALTH IN AVIATION

Tuscany B 9:00 a.m. - 5:00 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)

UHMS: The ORCA Project: Operational Resilience and Cognitive Awareness

Tuscany 1 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)

UHMS: Wound Care for the Hyperbaric Provider

Tuscany 2 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)

AEROSPACE AND OPERATIONAL MEDICINE CORPORATE BOARD

Sorrento 2 8:30 a.m.-2:00 p.m.

ABPM MAINTENANCE OF CERTIFICATION EXAM

Lakeview 1747 12:00-4:00 p.m.

IATA MEDICAL ADVISORY BOARD

Sorrento 4 12:30 - 2:00 p.m.

USAFSAM RESIDENCY PROGRAM EVALUATION COMMITTEE (PEC)

Sierra 1748 1:00 - 3:00 p.m.

INTERNATIONAL ACADEMY OF AVIATION AND SPACE MEDICINE (IAASM) EXECUTIVE COUNCIL MEETING

Sorrento 3 1:00 - 6:00 p.m.

AsMA BYLAWS COMMITTEE MEETING

Sorrento 4 3:00-5:00 p.m.

AsMA GLOBAL LIAISON AND OUTREACH COMMITTEE

(GLOC) MEETING
Capri 1-2 4:00-6:00 p.m.

SUSNFS ANNUAL MEMBERSHIP MEETING

Tuscany 4 4:00-6:00 p.m.

AsMA SCIENTIFIC PROGRAM SESSION CHAIRS MEETING

Tuscany 3 5:00-6:00 p.m.

SMA EXECUTIVE COMMITTEE MEETING

Sorrento 4 5:00-6:00 p.m.

US NAVY AEROSPACE MEDICINE LEADERS GROUP

Sierra 1478 5:00-7:00 p.m.

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

AEROSPACE PHYSIOLOGY SOCIETY BOARD OF GOVERNORS MEETING
Roma 2 5:00-8:00 p.m.

FIRST TIMERS/NEW MEMBERS MEETING
Tuscany F 6:00-6:30 p.m.

SUNDAY WELCOME TO RENO
Naples Ballroom 1-6 6:30 - 8:30 p.m.

MONDAY, MAY 23, 2022

AsMA EDUCATION & TRAINING COMMITTEE MEETING
Sorrento 1 7:00-8:00 a.m.

SOCIETY OF USAF FLIGHT SURGEONS BOARD OF GOVERNORS MEETING
Sorrento 2 7:00-8:15 a.m.

AEROSPACE HUMAN FACTORS ASSOCIATION MEETING
Roma 1-2 7:00-8:15 a.m.

OPENING CEREMONY MONDAY, MAY 23, 2022 TUSCAN C-D-E BALLROOM

7:30 a.m. Doors open

8:00 a.m. WELCOMING REMARKS

James DeVoll, M.D., FAsMA

President, AsMA

Marc Robins, DO, FUHM

President, UHMS

John Peters, MBA, FACHE

Executive Director, UHMS

GENERAL CHAIR REMARKS

Jeffrey Sventek, M.S., General Chair

NOMINATING COMMITTEE REPORT

SCIENTIFIC PROGRAM COMMITTEE REPORT

8:30 a.m. THE 67th LOUIS H. BAUER LECTURE

Lecturer: Michael A. Berry, M.D., M.S.

Topic: "Historical Issues in Aerospace Medicine:
What did we know? When did we know it? Could
we have predicted it?"

Educational Support provided by KBR

9:30 a.m. Exhibits Open

ACC BREAKOUT SESSION
Sorrento 2 9:30-10:30 a.m.

AsMA CORPORATE & SUSTAINING MEMBERSHIP
COMMITTEE MEETING
Sorrento 1 9:30-10:30 a.m.

UHMS ERIC P. KINDWALL MEMORIAL LECTURE TUSCANY C-D-E BALLROOM

10:30 a.m.

Lecturer: Lindell Weaver, M.D.

Topic: "Decision Making for Hypobaric Oxygen
for Brain Injury"

Monday, May 23 CIVIL AVIATION MEDICAL ASSOCIATION LUNCHEON Naples 7 12:00-2:00 p.m.

1:00-2:00 p.m.

Keynote Speaker: Tim "Chief T" Spencer, Emergency
Management specialist FEMA, Emergency Services Director
Reno Air Races Association

Topic: Disaster Response for Air Race Crashes, "The
Galloping Ghost" and Lessons Learned

Approved for 1 hour CME by AAFP

MONDAY LUNCHEONS

AEROSPACE HUMAN FACTORS ASSOCIATION
Edge Nightclub 12:00-2:00 p.m.

SOCIETY OF U.S. ARMY FLIGHT SURGEONS
Naples Foyer 12:00-2:00 p.m.

SOCIETY OF U.S. AIR FORCE FLIGHT SURGEONS
Capri 1-2 12:00-2:00 p.m.

U.S. NAVY
Sorrento 3-4 12:00-2:00 p.m.

UHMS WORKSHOP

Tuscany 1-2 12:00-1:00 p.m.
STOP THE BLEED® course

GERMAN SOCIETY OF AEROSPACE MEDICINE MEETING
Tuscany 1/2 12:00-2:00 p.m.

UHMS EDUCATION COMMITTEE
Executive Board 1735 12:00-1:00 p.m.

UHMS RESEARCH COMMITTEE
Executive Boardroom 1735 1:00-2:00 p.m.

AsMA AIR TRANSPORT MEDICINE COMMITTEE
Roma 1-2 2:00-4:00 p.m.

WING WELCOME RECEPTION
(registrants only)
Valley View 1734 2:30-4:30 p.m.

SPEED MENTORING SESSION I
Sorrento 1 3:30-5:30 p.m.

UHMS HBO2 THERAPY COMMITTEE
Tuscany 1/2 6:00-10:00 p.m.

LIFE SCIENCES AND BIOMEDICAL ENGINEERING BRANCH MEETING & SOCIAL Sorrento 3-4 4:00-6:00 p.m.

FELLOWS MEETING & DINNER MONDAY, MAY 23, 2022

AsMA FELLOWS MEETING (AsMA Fellows ONLY)
Capri 3-4 6:00 - 7:00 p.m.

AsMA FELLOWS RECEPTION
Capri Ballroom 6:00 - 7:15 p.m.

AsMA FELLOWS DINNER
Capri 1-2 7:15 - 10:00 p.m.

TUESDAY, MAY 24, 2022

ASSOCIATE FELLOWS BREAKFAST TUESDAY, MAY 24, 7:00 - 8:30 A.M. NAPLES 7

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 Ellingson Literary Award will also be presented.

- AsMA EDITORIAL BOARD MEETING
Lakeview 1747 7:00-8:30 a.m.
- AsMA FINANCE COMMITTEE MEETING
Sorrento 2 7:00-8:00 a.m.
- AsMA HISTORY & ARCHIVES COMMITTEE MEETING
Sierra 1748 7:00-9:00 a.m.

8TH EUGEN REINARTZ MEMORIAL LECTURE TUESDAY, MAY 23

TUSCANY C-D-E 8:30-10:00 a.m.
8TH MEMORIAL REINARTZ LECTURE
Joint UHMS and AsMA Panel
Moderator: Joseph P. Dervay
Title: "Overcoming Barriers on the Pressure Spectrum:
From the Past to the Future"
Panel: Joseph Dervay, MD, MPH, MMS; Johnathan
Clark, MD, MPH; Jay Dean, PhD; Michael
Gernhardt, PhD; and Richard Moon, MD, CM, MSc
Educational Support provided by the
Eugen G. Reinartz Endowed Fund

- AEROSPACE PHYSIOLOGY CERTIFICATION BOARD
BUSINESS MEETING
Sorrento 1 9:00-11:00 a.m.
- ICAO OPEN ACCESS MEETING
Sorrento 3-4 10:00 a.m.-12:00 p.m.
- INTERNATIONAL ASSOCIATION OF AEROSPACE DEN-
TISTRY (IAAD) MEETING
Sierra 1748 11:00 a.m.-12:00 p.m.

UHMS WORKSHOP
Tuscany 1-2 12:00-1:00 p.m.
STOP THE BLEED® course

UHMS ANNUAL BUSINESS MEETING
TUESDAY, MAY 24 12:00-1:00 p.m.
Naples 7

AsMA ANNUAL BUSINESS MEETING AND LUNCH
TUESDAY, MAY 24 12:00-2:00 p.m.
Capri 1-2

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!**

SOCIETY OF US ARMY FLIGHT SURGEONS BUSIENS
MEETING
Sorrento 3-4 12:00-4:00 p.m.

UHMS SAFETY COMMITTEE MEETING
Executive Board 1735 12:00-1:00 p.m.

AsMA MEMBERSHIP COMMITTEE MEETING
Sorrento 1 1:00-2:00 p.m.

UHMS PUBLICATIONS COMMITTEE MEETING
Executive Boardroom 1735 1:00-2:00 p.m.

UHMS QUAARC
Tuscany 1/2 1:00-2:00 p.m.

CANADIAN SOCIETY OF AEROSPACE MEDICINE
Roma 1-2 2:00-5:00 pm.

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

USAF AEROSPACE AND OP'S PHYSIOLOGY
Sorrento 2 4:00-7:00 p.m.

AsMA SCIENCE & TECHNOLOGY COMMITTEE MEETING
Capri 1-2 4:30-6:30 p.m.

SPACE SURGERY ASSOCIATION
Roma 1-2 5:00-6:00 p.m.

CORPORATE FORUM RECEPTION (by invitation only)
Edge Nightclub 5:30-6:30 p.m.

HARVARD SCHOOL OF PUBLIC HEALTH ALUMNI,
FRIENDS, AND PROSPECTIVE STUDENTS RECEPTION
Lake View 1747 5:30-7:00 p.m.

ICAO CAPSCA MEETING
Tuscany 12 5:30-7:30 p.m.

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

AsMA RECEPTION TO HONOR MULTINATIONAL MEMBERS

Tuesday, May 24, 6:30 - 8:30 p.m.
Edge Nightclub

Open to ALL-----Ticket Required

(Sponsored by Environmental Tectonics Corporation)

THE AEROSPACE PHYSIOLOGY SOCIETY PRESENTS:
Speaker: Jay Dean, PhD
Title: Fred A. Hitchcock: Explosive decompression pio-
neer (1941-1960) and co-translator of Paul Bert's "La
Pression Barométrique" (1941-1943)
Tuscany F 6:30-8:30 p.m.

WEDNESDAY, MAY 25, 2022

**AEROSPACE MEDICINE STUDENT & RESIDENT
ORGANIZATION (AMSRO)**
30th ANNIVERSARY BREAKFAST
Capri 1-2 7:00-8:30 a.m.

**AMERICAN SOCIETY OF AEROSPACE MEDICINE
SPECIALISTS MEETING**
The Hidden Bistro (2999 S. Virginia St.,
above European Fitness) 7:00-8:00 a.m.

AsMA RESOLUTIONS COMMITTEE MEETING
Sorrento 1 8:00-9:30 a.m.

NATO RTG 299 PULMONARY SCREENING OF AIRCREW
Roma 1 8:00 a.m.-12:00 p.m.

**UHMS CHRISTIAN J. LAMBERTSEN
MEMORIAL LECTURE
TUSCANY C-D-E BALLROOM**

8:30 a.m.

Lecturer: Robert W. Sanders, M.D.
Topic: "Undersea Medicine is Out of This
World! Hyperbaric Medical Support at NASA's
Neutral Buoyancy Lab"

EUROPEAN AVIATION MEDICAL ASSESSORS' COUNCIL
MEETING
Sorrento 2 10:00-11:00 a.m.

SPEED MENTORING SESSION 2
Sorrento 3-4 10:00 a.m.-12:00 p.m.

UHMS WORKSHOP
Tuscany 1-2 12:00-1:00 p.m.
STOP THE BLEED® course

EUROPEAN SOCIETY OF AEROSPACE MEDICINE (ESAM)
MEETING
Tuscany 4 12:00-2:00 p.m.

USAF PILOT-PHYSICIAN MEETING
Sorrento 1 12:00-2:00 p.m.

PACAF FLIGHT SURGEONS CONFERENCE
Lake View 1747 12:30-1:30 p.m.

WEDNESDAY LUNCHEONS

AEROSPACE NURSING AND ALLIED HEALTH
PROFESSIONALS SOCIETY LUNCHEON & MEETING
Sorrento 2 12:00-4:00 p.m.

SOCIETY OF NASA FLIGHT SURGEONS LUNCHEON
& MEETING
Capri 1-2 12:00-2:00 p.m.

AEROSPACE PHYSIOLOGY SOCIETY
Naples 7 12:00-2:00 p.m.

IBERO-AMERICAN ASSOCIATION OF AEROSPACE
MEDICINE LUNCHEON & BUSINESS MEETING
Sierra 1748 12:00-4:00 p.m.

**UHMS BAROMEDICAL NURSES ASSOCIATION
LUNCHEON**
Executive Boardroom 1735 12:00-2:00 p.m.

ALL ARE WELCOME TO ATTEND ANY SOCIETY EVENTS.

NATO RTG 320 FATIGUE MANAGEMENT IN AIRCREW
Roma 1 1:00-5:00 p.m.

AIR MOBILITY COMMAND BREAKOUT BUSINESS MTG
Roma 2 1:00-2:30 p.m.

UHMS REDCap COMMITTEE MEETING
Tuscany 1/2 1:00-2:00 p.m.

AEROSPACE PHYSIOLOGY BOARD CERTIFICATION
EXAM REVIEW
Sorrento 3-4 3:00-5:00 p.m.

INTERNATIONAL PULMONARY AND SLEEP WORKING
GROUP
Sorrento 2 3:00-5:00 p.m.

AEROSPACE HUMAN FACTORS ASSOCIATION
MEETING
Sierra 1748 4:00-5:00 p.m.

FAA OFFICE OF AEROSPACE MEDICINE MEETING
Lake View 1747 4:00-5:45 p.m.

AsMA AEROSPACE HUMAN PERFORMANCE COMMITTEE
MEETING
Sorrento 3-4 5:00-6:00 p.m.

USAFSAM INTERNATIONAL MEETING
Sorrento 1 5:00-7:30 p.m.

**SOCIETY OF U.S. AIR FORCE FLIGHT SURGEONS
RECEPTION**
Naples 7 6:00-9:00 p.m.

THE AEROSPACE SOCIAL
The National Automobile Museum
6:30-10:00 p.m.

THURSDAY, MAY 26, 2022

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

MOTION SICKNESS, VESTIBULAR, SPATIAL
DISORIENTATION RESEARCHERS BREAKFAST
Roma 1-2 7:00-8:10 a.m.

MAY 26, 2022
56TH ANNUAL HARRY G. ARMSTRONG LECTURE
Tuscany C-D-E

8:15-9:15 a.m.

Lecturer: Melchor Antunano, M.D., M.S.
Title: "Medical & Human Factors Challenges of
New Aerospace Transportation Systems"

(Educational support by Environmental
Tectonics Corporation)

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

AEROSPACE PHYSIOLOGY SOCIETY BUSINESS MTG
Sorrento 2 10:00 a.m.-11:30 p.m.

INTERNATIONAL ACCELERATION INTEREST GROUP
LUNCHEON (by invitation only; sponsored by ETC)
Sorrento 3-4 11:30 a.m.-1:30 p.m.

AsMA-ESAM-IAASM-SOFRAMAS LEADERSHIP LUNCHEON AND MEETING
(by invitation only)
Lake View 1747 11:30 a.m.-1:30 p.m.

HISTORIC FILM SERIES
Roma 2 11:30 a.m.-1:30 p.m.

UHMS ACCREDITATION COUNCIL MEETING
Executive Boardroom 1735 11:30 a.m.-1:30 p.m.

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

UHMS ASSOCIATES LUNCHEON
Naples 5 12:00-1:00 p.m.

INTERNATIONAL AEROMEDICAL NEUROLOGY CONSORTIUM
Sorrento 2 12:00-1:30 p.m.

UHMS WORKSHOP
Tuscany 1-2 12:00-1:00 p.m.
STOP THE BLEED® course

AsMA AEROSPACE MENTAL HEALTH WORKING GROUP
Naples 7 1:30-3:00 p.m.

AsMA AWARDS COMMITTEE MEETING
Sorrento 1 3:45-5:00 p.m.

**AsMA & UHMS
HONORS NIGHT
THURSDAY, MAY 26, 2022**

RECEPTION
CAPRI BALLROOM
Cash Bar 6:00-7:00 p.m.

BANQUET, AWARDS, AND HONORS
CAPRI BALLROOM 7:00-9:30 p.m.

HONORS NIGHT AFTER PARTY
CAPRI BALLROOM 9:30-11:55 P.M
ALL ARE WELCOME

Financial support for Honors Night is sponsored in part by
and Jeff and Debra Sventek

FRIDAY, MAY 27, 2022

USAF AEROSPACE MEDICINE CORPORATE BOARD
Naples 7 7:30 a.m.-12:00 p.m.

HYPOXIA TECHNICAL INTERCHANGE MEETING
Sorrento 3-4 9:00 a.m.-5:00 p.m.

Workshop: Friday, May 27 8:00 a.m. - 6:00 p.m.
S-86 MOUNTAIN MEDICINE WORKSHOP
Tuscany 12
(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).

ADDITIONS AND CORRECTIONS TO THE SCIENTIFIC PROGRAM

CANCELLATIONS: 2, 21, 226, 238, 287, 298, 325, 401, 422, 444, 449

Changes to abstracts and presenters:

[2] REFLECTIVE PRACTICE IN AVIATION MEDICINE by Satyam Patel is NOT part of the Faculty Development Workshop. This abstract has been withdrawn.

[14] Will be presented by Alex Sinclair, instead of Andreas Yiangou.

[244] Will be presented by Xiaoli Zhang

[302] will be presented in lieu of [422].

[309] Add Zan Ahmad as an author

[405] Will be presented by Wendy Olsen, instead of Nicholas Napoli.

[432] Will be presented by Navjit Girgla.

Additional Chair/Co-Chair Assignments:

S-04 Monday, 1400, Panel: Understanding & Modifying Intracranial Pressure & Spaceflight--

Add: Co-Chair: Alex Sinclair

S-46 Wednesday 1030, Poster: Human Performance: Pan Topic Look

Add: Co-Chair: Philippe Souvestre

S-56, Wednesday 1600, Slide: Vision Topics.

Add: Co-Chair: Bonnie Posselt

S-57, Wednesday, 1600, Slide: Sweet and Salty: Topics in Diabetes

Add Co-Chair: Stuart Mitchell

S-64, Thurs 1000, Slide: Aircraft and Caves

Add Co-Chair: Jochen Hinkelbein

[S-84] Thursday, 1330, Poster: Diversity and Technology in Aerospace Medicine: People, Modalities, and Environments_

Remove M. Doubrava and add Elaine Rutland as Co-Chair

S-85, Thurs 1530, Poster: Cool Cases & Interesting Populations

Add Co-Chair: Mary Cimrmancic

ERRATA:

[S-62] **PANEL: THE NUTS AND BOLTS OF BEING A CHIEF MEDICAL OFFICER FOR PRIVATE SPACE COMPANIES** will be presented on Thursday, May 26 at 10:00 a.m.

[456] Will be presented by **Yoshiaki Inuzuwa**. There was a misspelling of his name in the printed program.

[S-36]: **PANEL: UNUSUAL SITUATIONS IN CLINICAL AVIATION MEDICINE: EASY TO MANAGE?**—All abstracts will be presented in English.

[210] **CARDIOVASCULAR, AUTONOMIC, AND CEPHALAD DOSE-RESPONSE TO GRADED LOWER BODY NEGATIVE PRESSURE**

Richard S. Whittle¹, Hrudayavani S. Vellore¹, Eric A. Hall, Fèlix Real Fraxedas¹, Katherine H. Findlay², Nathan Keller¹, Lindsay M. Stapleton¹, Bonnie J. Dunbar¹, Ana Diaz-Artiles¹

¹Texas A&M University, College Station, TX, United States;

²Independent Researcher, College Station, TX, United States

The lower body negative pressure (LBNP) chamber we have been using had a software calibration factor bug, such that the actual applied pressure was only half of the indicated pressure. The measured values for the dependent variables are still correct, however the independent variable (LBNP pressure) is out by a factor of 2. The affected pressures are bolded and underlined below.

INTRODUCTION: (Same as print.) **METHODS:** Twelve male subjects (age 26.9±2.9 years, height 179.0±8.3 cm, weight 84.7±18.7 kg) were placed in an LBNP chamber in both supine and 15° head down tilt postures. A graded LBNP profile was applied from 0 mmHg to **-25 mmHg** in **5 mmHg** increments. Measures of systemic cardiovascular parameters and autonomic indices were taken along with intraocular pressure, ultrasonography of the left and right common carotid arteries and internal jugular veins, and jugular venous pressure. **RESULTS:** The application of **-25 mmHg** of LBNP caused a drop in systolic blood pressure from 133.2±14.9 mmHg to 121±15.7 mmHg (p = 0.003), whilst diastolic pressure was maintained. Similarly, cardiac output and stroke volume decreased linearly, from 5.3±1.1 l/min to 4.2±0.7 l/min (p < 0.001) and 76.5±17.9 ml to 58.4±10.1 ml (p < 0.001), respectively. Autonomic indices showed no significant change in vagal activity, but a slight increase in sympathetic nervous activity. Jugular venous pressure and intraocular pressure were reduced with the application of LBNP, however the differential rate slowed at pressures below -10 mmHg. **DISCUSSION:** (Same as print.) pressure were reduced with the application of LBNP, however the differential rate slowed at pressures below -10 mmHg. **DISCUSSION:** (Same as print.)

CONTINUED ON p. 7.

Additions:

Wednesday, 05/25/2022 10:30 AM in Tuscany 5/6

[S-46]: POSTERS: HUMAN PERFORMANCE: PAN TOPIC LOOK [477] CAN OPEN ABDOMINAL SURGERY FIT IN THE VOLUME OF THE ORION CAPSULE: A PILOT STUDY

Tovy Kamine¹, Margaret Siu¹, Arthur Formanek², Gladys Fernandez¹, Dana Levin³

¹Baystate Health, Springfield, MA, USA; ²Brigham and Women's Hospital, Boston, MA, USA; ³Columbia University, New York, NY, USA
(Original Research)

INTRODUCTION: This pilot study investigated the minimum volume needed to safely perform an open abdominal procedure to understand if current and planned spacecraft have sufficient volume to handle surgical emergencies should they occur. **METHODS:** The axes of a simulated operating room were marked and cameras placed to capture movements. An expert surgeon, chief surgical resident, junior surgical resident, and a non-surgeon physician each performed a Focused Assessment with Sonography for Trauma and an open appendectomy on a simulated patient. A second participant intubated and monitored the simulated patient. Time and vol-

ume data were collected and compared using unpaired t-tests. **RESULTS:** Mean volume needed to complete all tasks was 3.83 m³±0.47 for standing and 3.68m³±0.49 for kneeling, p=0.72. There were differences in the x, y, and z dimensions between the two groups, X: 90.1cm±5.0 v. 121.1cm±6.8, p=0.04; Y: 210.5cm±22.7 v. 237.5cm±3.8, p=0.08; Z: 174.4cm±5.0 v. 127.7cm±13.4 p < 0.01. Differences between Seniors (attending and PGY5) and Juniors (PGY2 and non-surgery physician) were not significant (3.78m³±0.41 and 3.74m³±0.53, respectively, p=0.90). **DISCUSSION:** The habitable volume of capsules ranges from 8.95m³ (NASA's Orion) to 916m³ (International Space Station). Future vehicles range from NASA's Gateway Lunar Station at 125m³ to SpaceX's Starship at 825m³. Mean volume to perform kneeling appendectomy was 3.68m³. Even the smallest of these spacecraft, the Orion Capsule, may accommodate simple open abdominal procedures. However, this study included only 4 participants and does not account for environmental aspects of spaceflight such as micro-gravity.

Learning Objectives:

1. The audience will learn about the minimal spatial volume necessary to perform open abdominal operations.
2. The audience will learn how the volumetric constraints of the Orion capsule affect the ability to perform open abdominal operations.

FAA AVIATION MEDICAL EXAMINER SEMINAR – 2022

CERTIFICATION REFRESHER (AsMA)

Please Check the App for any changes.

MONDAY, MAY 23, 2022

- 10:30 (R) COURSE DOCUMENTATION--GARY SPROUSE
- 10:45 (R) AMCS--JANA WEEMS
- 11:45 LUNCH
- 1:15 (R) MEDICAL PROGRAMS, POLICIES & STANDARDS -- SUSAN NORTHRUP
- 2:15 BREAK
- 2:30 (R) AME PERFORMANCE--TIMOTHY HURSH
- 3:30 (R) PSYCHIATRY/PILOT MENTAL HEALTH--CHARLES CHESANOW
- 4:30 (R) ADDICTION--CHARLES CHESANOW
- 5:30 ADJOURNMENT

TUESDAY, MAY 24, 2022

- 8:00 (R) OTORHINOLARYNGOLOGY--DAVID SCHALL
- 9:15 (R) NEUROLOGY--ROGER HESSELBROCK
- 10:15 BREAK
- 10:30 (R) OPHTHALMOLOGY--HARRIET LESTER
- 12:00 LUNCH
- 1:30 (R) CARDIOLOGY--JOHN RANIOLO
- 2:30 BREAK
- 2:45 (E) AME OVERVIEW--DAVID HARDY
- 3:45 BREAK
- 4:00 (E) FAA DUI POLICY--MATT DUMSTORF
- 5:00 ADJOURNMENT

WEDNESDAY, MAY 25, 2022

- 8:00 (E) Panel: *Would You Fly with This Pilot?*
Moderator: SUSAN NORTHRUP
Panel Participants: Charles Chesanow, Roger Hesselbrock, Harriet Lester, John Raniolo, David Schall
- 9:30 BREAK
- 9:45 (R) MEDICAL LEGAL--JESSICA KABAZ-GOMEZ
- 10:45 (R) CERTIFICATION PROCESSES--MATT DUMSTORF
- 12:00 LUNCH
- 1:00 (F) CACI UPDATES--DAVID HARDY
- 2:00 (E) MEDICATIONS--DAVID HARDY
- 2:45 BREAK
- 3:00 (F) MALIGNANCY--TIMOTHY HURSH
- 4:00 (F) SLEEP APNEA / FATIGUE--DAVID SCHALL
- 5:00 ADJOURNMENT

THURSDAY, MAY 26, 2022

- 8:00 (F) SLEEP APNEA / FATIGUE--DAVID SCHALL
- 9:00 (F) MALIGNANCY--TIMOTHY HURSH

- 10:00 BREAK
- 10:15 (F) CACI UPDATES--DAVID HARDY
- 11:15 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 answer sheets no later than adjournment on Thursday to receive CME and seminar credit. These sheets will not be accepted after Thursday, May 26, 2022.

CONTINUING MEDICAL EDUCATION

The Civil Aerospace Medical Institute is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians

This Live activity, *AME Refresher Training (AsMA)*, with a beginning date of 05/23/2022, has been reviewed and is acceptable for up to 17.25 Prescribed credit(s) by the American Academy of Family Physicians. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This program is approved for up to 17.25 credits of Category 1-A by the American Osteopathic Association.

The Civil Aerospace Medical Institute designates this activity for a maximum of 17.25 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This CME activity was developed by the Aerospace Medical Education Division of the FAA Civil Aerospace Medical Institute using only congressionally appropriated funds, and without any type of commercial sponsorship (monetary or in kind).

All speakers participating in this CME activity are required to disclose to the audience any significant financial interest or other relationship they may have with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial medical services discussed in their educational presentations. Significant financial interests or other relationships can include (but are not limited to) being an employee, consultant, representative, stockholder, or receiving grants or research support from such a commercial company. The intent of this disclosure is to provide the audience with information to enable them to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion. The Aerospace Medical Education Division will not accept commercial support of any educational program.

It is the policy of the Aerospace Medical Education Division that the speaker discloses to the audience, if a product is not labeled for the use under discussion or that a product is still investigational.

CONTINUING EDUCATION INFORMATION & INSTRUCTIONS

Instructions for Obtaining CME Credit

- Register for the conference and sign in for the activities, as required.
- Complete the online post-activity evaluation. Be sure to evaluate each session attended.
- After submitting the post-meeting evaluation, the CME certificate will be automatically sent to your email designated on the form. Please check your spam folder or contact stacy@uhms.org if you do not receive it within a few minutes.

Designation Statements

- The Undersea and Hyperbaric Medical Society (UHMS) designates this live activity for a maximum of 23 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
- **Nursing CEUs:** This live activity is approved for 23.00 contact hours by the Florida Board of Registered Nursing Provider #50-10881. Approved license types: Advanced Registered Nurse Practitioner; Clinical Nurse Specialist; Licensed Practical Nurse; Registered Nurse; Certified Nursing Assistant; Respiratory Care Practitioner Critical Care; Respiratory Care Practitioner Non-Critical Care; Registered Respiratory Therapist; Certified Respiratory Therapist. [Note: USAF Nurses may obtain Category C recognition credit through the Air Force Nurse Corps Continuing Education and Recognition Program (CEARP). To obtain credit, submit a copy of the course completion certificate and supporting documentation such as a program schedule along with completed AF Form 2664. This credit can be used towards fulfilling the AF requirement for contact hours.
- **NBDHMT:** This live activity is approved for 7 Category A credit hours by National Board of Diving and Hyperbaric Medical Technology, 9 Medical Park, Suite 440, Columbia, South Carolina 29203. NBDHMT Accreditation Statement: For CHT recertification purposes, the NBDHMT requires a minimum of nine of the minimum 12 required Category A credits relate directly to any combination of hyperbaric operations, related technical aspects and chamber safety.
- A Participation Certificate is available for those requiring proof of attendance and cannot claim CME.

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 ineligible companies. 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.

Statement of Independence

The Aerospace Medical Association 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 Aerospace Medical Association's Scientific Program Committee, according to the following specifications:

- 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.
- 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 Aerospace Medical Association 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 balance 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 individuals in control of content for this educational activity with their relevant financial relationship disclosed are listed below (if applicable). An individual who refuses to disclose relevant financial relationships will be disqualified from being in control of educational content at any time, and cannot have control of, or responsibility for, the development, management, presentation, or evaluation of the CME activity.

Financial relationships are relevant if the following three conditions are met for the individual who will control content of the education:

- A financial relationship, in any amount, exists between the person in control of content and an ineligible company.
 - The content of the education is related to the products of an ineligible company with whom the person has a financial relationship.
 - The financial relationship existed during the past 24 months.
- None of the individuals in control of content (planners/faculty/reviewers/authors) for this educational activity have relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. There are no relevant financial relationships with ineligible companies to mitigate for this educational activity.

Appropriate Management of Commercial Support

The Aerospace Medical Association'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 Standards for Integrity and Independence in Accredited Continuing Education. The following have provided commercial support for this activity:

- Environmental Tectonics Corporation: \$1,000 Exhibit Hall Coffee/Tea Service
- Environmental Tectonics Corporation: \$5,000 Reception to Honor Multinational Attendees
- Environmental Tectonics Corporation: \$3,500 International Acceleration Interest Group Luncheon
- Environmental Tectonics Corporation: \$1,150 Disorientation Research Group Breakfast

Policy on Unlabeled/Off-Label Use

ACCME policy allows off-label discussion, but does not allow a faculty to advocate for the test or treatment, or teach clinicians how or when to use it.

When a CME activity includes information about an approach to diagnosis or treatment that is not generally accepted, it is allowable to facilitate debate and discussion about the approach, but it is not allowable to advocate for the test or treatment, or teach clinician-show or when to use it. Several strategies can be utilized to facilitate discussion about controversial topics without promoting unscientific care recommendations in accredited CME activities.

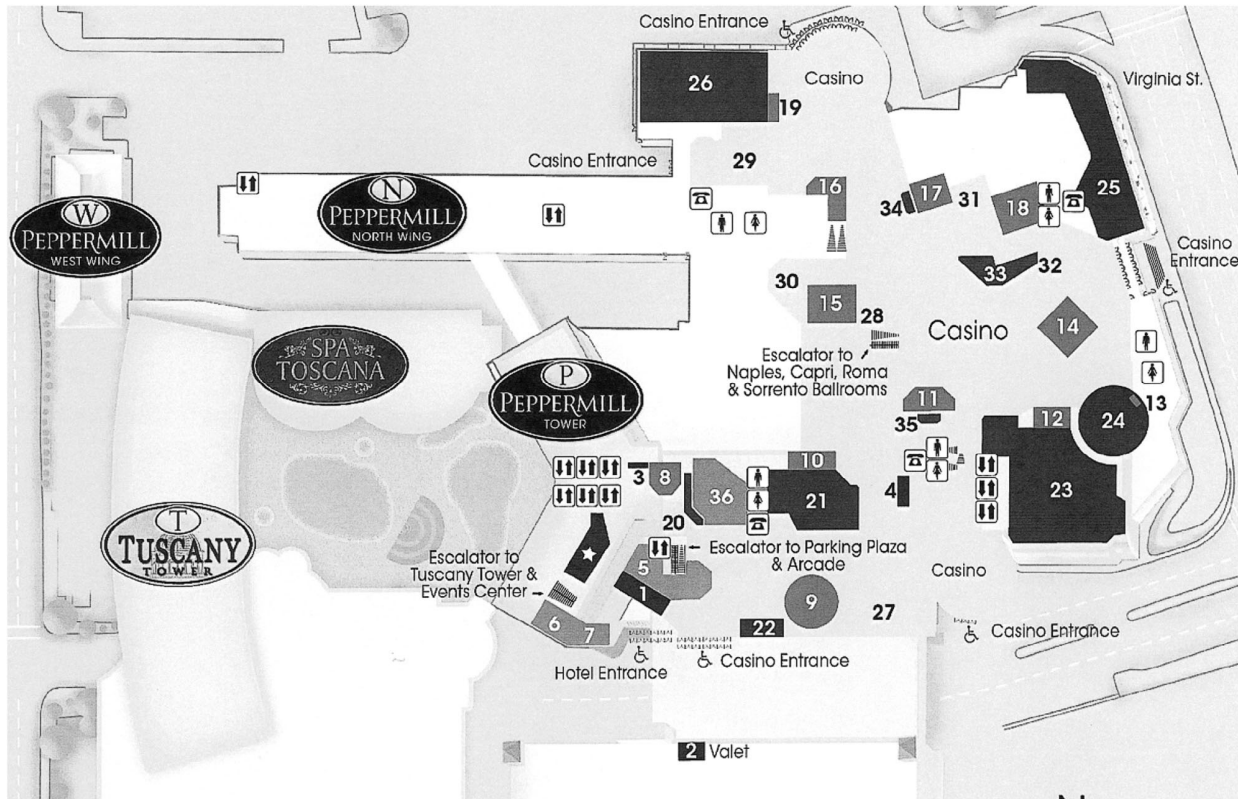
EXHIBIT BOOTHS & CONTACT INFORMATION

The AsMA Welcome to Reno event will be held in exhibit area on Sunday, May 22, 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 23 and Tuesday, May 24.
Coffee Service provided in part by ETC.

COMPANIES.	BOOTH NO.		
American Board of Preventive Medicine ABPM Chicago, IL www.theabpm.org	309	Human Solutions of North America, Inc. Morrisville, NC www.human-solutions.com	204
American College of Occupational and Environmental Medicine (ACOEM) Elk Grove Village, IL www.acoem.org	311	iSLEEP 210 Reno, NV www.isleephst.com	
AMST Ranshofen, Austria www.amst.at	308	JFJ Aviation & Defence GmbH Austria www.jfj-consulting.com	314
AsMA Foundation Alexandria, VA www.asma.org	301	JFJ Health & Sports GmbH Austria www.jfj.at	313
Best Publishing North Palm Beach, FL www.bestpub.com	401	KBR Houston, TX www.kbr.com	303
CogScreen St. Petersburg, FL www.cogscreen.com	214	King's College London London, UK www.kcl.ac.uk	310
Divers Alert Network Durham, NC www.dan.org	406	NAMRU-D Dayton, OH www.med.navy.mil	403
Environics Tolland, CT www.environics.com	402	Omni Medical Susters, Inc. Colchester, VT www.omnimedicalsys.com	207
Environmental Tectonics Corporation Southampton, PA www.etcusa.com	101	PCCI Hyperbaric Systems Alexandria, VA www.pccihyperbarics.com	216
FACC Operations GmbH Ried, Austria www.facc.com	404	Sechrist Industries, Inc. Anaheim, CA www.sechristUSA.com	205
Fink Engineering Queensland, Australia www.fink.com.au	316	Spotlight Labs Barre, VT www.spotlightlaabs.com	405
Gentex Corporation Carbondale, PA www.gentexcorp.com	306	University of Texas Medical Branch Aerospace Medicine Galveston, TX www.pmch.utmb.edu	305
Global Aviation Data/GlobaLog Kastrup, Denmark www.globalog.com	206	USAF School of Aerospace Medicine Dayton, PH www.afrl.mil/771HPW/USAF	211
		USDTL Des Plains, IL www.usdtl.com	312
		ZOLL Medical Corporation Chelmsford, MA www.zoll.com	307

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. Podiumcast will email log-in instructions 2-3 weeks after the meeting. Visit Podiumcast on-site in Denver for a demo. <https://www.podiumcast.com>

Peppermill Resort Hotel First Floor



Elevators
 Phone
 Restrooms

☒ Hotel Registration

- 1. Bell Desk
- 2. Valet
- 3. Concierge & VIP lounge
- 4. Information Booth
- 5. Garbatti Bottega (shopping)
- 6. Bella Bottega (shopping)
- 7. Regali Bottega (shopping)
- 8. Lobby lounge
- 9. Sports bar
- 10. CHI lounge
- 11. Cabaret lounge

- 12. Banyan bar
- 13. Romanza bar
- 14. Cube bar
- 15. Eleganza lounge
- 16. Poker bar
- 17. Non-smoking bar
- 18. Fireside lounge
- 19. Oceano wine & sake bar
- 20. Cafe Espresso
- 21. CHI
- 22. New York Style Deli
- 23. Island Buffet

- 24. Romanza
- 25. Cafe Milano
- 26. Oceano
- 27. Sports Book
- 28. Eleganza slots
- 29. Peppermill poker room
- 30. Slot tournament area
- 31. Non-smoking area
- 32. Keno
- 33. Cashier
- 34. & 35. Change booth
- 36. White Orchid (private dining)

Future AsMA Annual Scientific Meetings

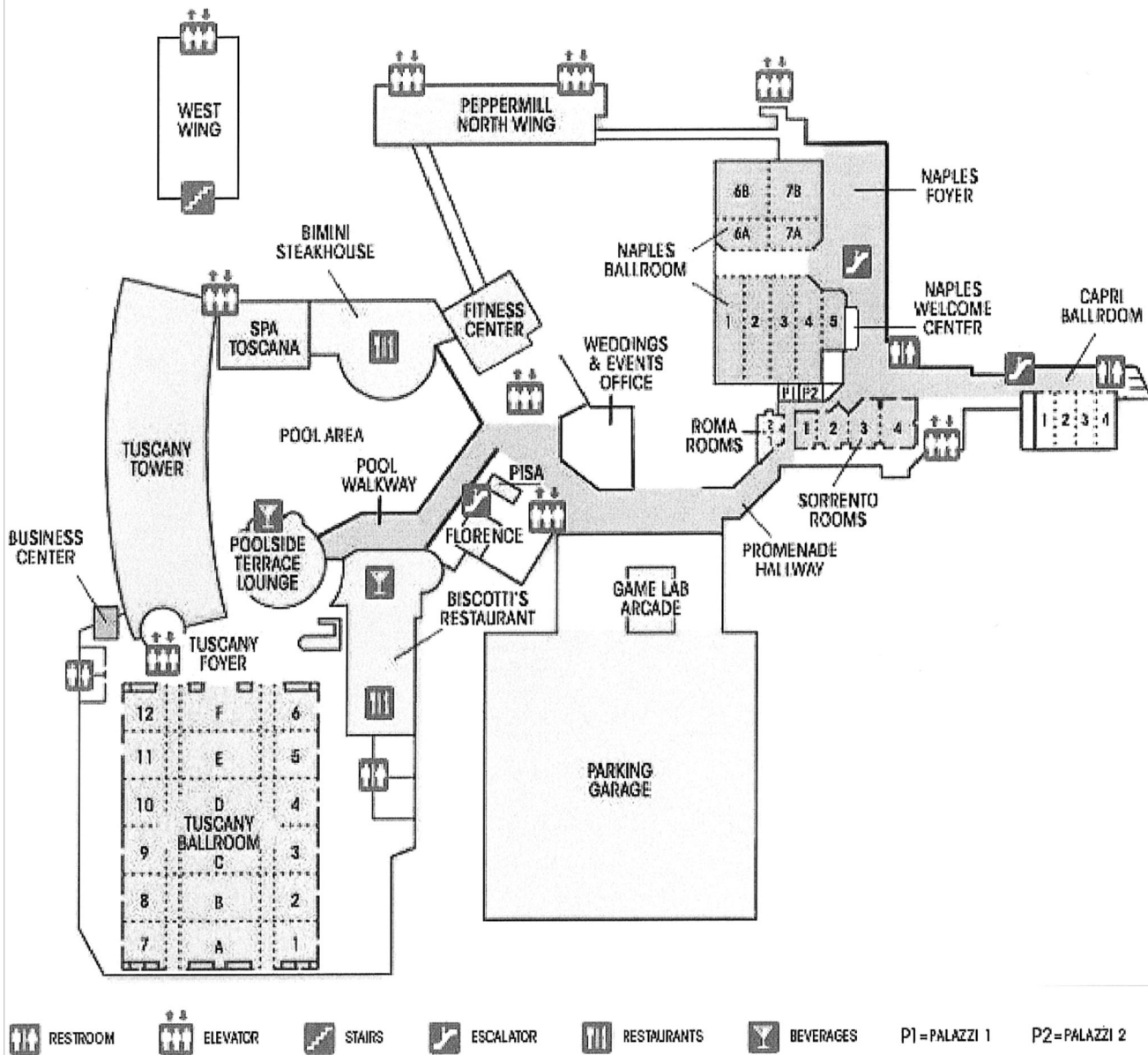
May 21-25, 2023
Sheraton New Orleans Hotel, New Orleans, LA

May 5-9, 2024
Hyatt Regency Chicago, Chicago, IL

June 1-6, 2025
Hyatt Regency Atlanta, Atlanta, GA

May 17-21, 2026
Sheraton Denver Downtown, Denver, CO

Peppermill Resort & Hotel Second Floor



HISTORIC FILM SERIES ROMA 2

THURSDAY, MAY 26, 2022
11:30 a.m. - 1:30 p.m.

"Always"
1989; 2h, 2 min

Steven Spielberg directs this heartwarming romantic adventure USA Today calls "a winner." Pete Sandich (**Richard Dreyfuss**) is a legendary pilot with a passion for daredevil firefighting. However Dorinda (**Holly Hunter**), the woman he loves, and Al (**John Goodman**), Pete's best friend, know that legends can't take risks forever. After sacrificing himself to save Al, the ace pilot faces his most challenging mission: helping Dorinda move on with her life. Breathtaking cinematography and exhilarating aerial choreography highlight this compelling adventure that co-stars **Brad Johnson** and features a special appearance by **Audrey Hepburn**.

Sponsored by the AsMA History and Archives Committee.

AsMA/UHMS Annual Scientific Meeting Schedule

Peppermill Resort Hotel, Reno, NV May 22 - 27, 2022

UHMS sessions will be in Tuscany 1 & 2. See UHMS Breakout Schedule for more information:
https://www.uhms.org/images/ASM/2022/UHMS_breakout_schedule_as_of_2-14-22.pdf

FAA will be in Capri 3 & 4, Monday–Thursday. See p. 7 of the Addendum for FAA schedule.

MONDAY, May 23

8:30-10:00 a.m. **OPENING CEREMONIES AND 67th LOUIS H. BAUER LECTURE—Tuscany C, D, E**

10:30 – 12:00 **UHMS KINDWALL LECTURE—Tuscany C, D, E**

	TUSCANY C, D, E	TUSCANY A	TUSCANY B	TUSCANY F	TUSCANY 3	TUSCANY 4	TUSCANY 12	TUSCANY 5/6
Noon-2:00 pm	SPECIAL LUNCHEONS--CAMA, Navy, Air Force, Army, Aerospace Human Factors							
2:00-3:30 p.m.	S-004 SPACE PANEL: Understanding & Modifying Intracranial Pressure & Spaceflight	S-005 CLINICAL PANEL: Riding the COVID-19 Wave: USAF Aircrew Data	S-006 HP SLIDE: Life in the Fast Lane: Acceleration Effects	S-007 CLINICAL PANEL: Meeting Mental Health Challenges in Aviation	S-008 ATM PANEL: Hypobaric during Aeroveac in Research Models	S-009 HP PANEL: Operational Vision Threats & Requirements	S-010 SAFETY PANEL: Bringing a Research Project to Fruition	UHMS POSTERS
4:00-5:30 p.m.	S-011 SPACE PANEL: Clinical & Research Insights into SANS	S-012 CLINICAL PANEL: Aero-Neuroscience 2022-2032	S-013 HP SLIDE: Fatigue in Military & Commercial Aviation	S-014 CLINICAL PANEL: Show Me the Evidence: Intl Debate on Non-Invasive Screening for CVD in Aircrew	S-015 ATM PANEL: Covid-19 Pandemic ASM Controversies & Lessons Learned	S-016 HP PANEL: Factors Impacting Cybersickness in Aviation Training	S-086 CLINICAL PANEL: Resident Grand Rounds: UTMB & AAMIMO	

TUESDAY, May 24

8:30-10:00 a.m. **8th MEMORIAL REINARTZ LECTURE—Tuscany C, D, E**

10:30-12:00 a.m. Noon	S-018 CLINICAL PANEL: Beyond the 1% Rule: Aero-medical Risk Assessment in the 21 st Century	S-019 HP PANEL: Importance of Aeromedical Expertise in Naval Aviation Acquisition	S-020 CLINICAL PANEL: Lessons from WWIII: Global Pandemic	S-021 HP SLIDE: Aero- and Space-Related Training	S-022 SPACE PANEL: Cultivating the Ideal Medical/Surgical Officer for Exploration Class Space Missions	S-023 CLINICAL PANEL: Take a Deep Breath: NATO RTG299 Pulmonary Screening & Management in Aircrew	S-024 SPACE PANEL: Behavioral Health & Performance Operations & Research in Human Spaceflight	UHMS POSTERS
Noon-2:00 p.m.	AEROPACE MEDICAL ASSOCIATION LUNCH AND BUSINESS MEETING							

2:00-3:30 p.m.	S-025 SPACE PANEL: NASA's Exploration Atmospheres & EVA Strategies	S-026 HP PANEL: From Lab to Cockpit: Biomarkers of In-flight Exposure	S-027 HP PANEL: Making Sense of Special Senses: Mishaps and Near Mishaps	S-028 SAFETY PANEL: Safety Centers Year in Review	S-029 SPACE PANEL: Space Operations in the Time of COVID-19	S-030 CLINICAL PANEL: Clinical Cases & Aeromedical Decision Making	S-031 SPACE SLIDE: Spaceflight Analog Model Topics	UHMS POSTERS
4:00-5:30 p.m.	S-032 SPACE PANEL: Management of DCS and Crew Injury During Exploration EVA	S-033 HP PANEL: Sensory, Perceptual and Cognitive Contributions to Pilot SD	S-034 OTHER PANEL: Women in Space: Lessons on Leadership	S-035 HP PANEL: Advancing Technology for Hypoxia Res. & Training in Aerospace Medicine	S-036 CLINICAL PANEL: Unusual Situations in Clinical Aviation (French)	S-037 CLINICAL PANEL: Selected Cases and Novel Solutions from Jr. Flight Surgeons	S-038 SAFETY SLIDE: Safety Select: A Medley	UHMS POSTERS

WEDNESDAY, May 25

8:30-10:00 a.m. **UHMS LAMBERTSEN LECTURE – Tuscany C, D, E**

10:30-12:00 a.m. Noon	S-039 SPACE PANEL: Enabling Progressively Earth Independent Medical Operations for Human Space Exploration	S-040 HP SLIDE: Decompression Matters	S-041 CLINICAL PANEL: Deployed Comprehensive Medical Readiness Program for Flight Surgeons	S-042 CLINICAL PANEL: ASAMS: Aeromedical Risk Analysis: Practice Updates	S-043 SPACE SLIDE: From Physiology to Physical Fitness	S-044 CLINICAL PANEL: U.S. Navy Aerospace Medicine Residency Grand Rounds	S-045 OTHER SLIDE: From Foundation to Frontlines: Building Team Aerospace	S-046 HP POSTERS Pan Topic Look
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							

2:00-3:30 p.m.	S-047 SPACE PANEL: Emerging Medical Best Practices in Space Travel	S-048 HP SLIDE: Neck & Back Pain: Assess, Quantify, Mitigate	S-049 CLINICAL PANEL: Health Comprehensive Medical Readiness Program for Flight Surgeons	S-050 CLINICAL SLIDE: Head to Heart	S-051 SPACE PANEL: Developing an Extreme Environment Med. System: Lessons from Orion	S-052 CLINICAL PANEL: Treatment Plans in Aircrew Using Healthy Lifestyle Interventions: Part I	S-053 CLINICAL PANEL: Aerospace Dentistry	S-054 HP POSTERS Fatigue, Attention
4:00-5:30 p.m.	S-055 CLINICAL PANEL: RAM Bowl	S-056 HP SLIDE: Vision Topics	S-057 CLINICAL SLIDE: Sweet & Salty: Topics in Diabetes & Aging	S-058 CLINICAL SLIDE: Sans SARS: Coming Back Post-COVID	S-059 SAFETY SLIDE: The Spin Zone: Blades & Brains	S-060 CLINICAL PANEL: Treatment Plans in Aircrew Using Healthy Lifestyle Interventions: Part II	S-61 CLINICAL PANEL: Aerospace Medicine in Germany	

THURSDAY, May 26

8:15-9:15 a.m. **56th HARRY G. ARMSTRONG LECTURE—Tuscany C, D, E**

10:00-11:30 a.m.	S-062 SPACE PANEL: The Nuts & Bolts of Being a CMO for Private Space Companies	S-063 HP PANEL: Failure to Follow Procedures: The Role of Organizational, Situational, & Other Factors	S-064 SAFETY SLIDE: Aircraft & Caves	S-065 HP SLIDE: Respiratory Factors in Human Performance	S-066 CLINICAL PANEL: Advances in Aerospace Medicine in Ibero-America	S-067 CLINICAL PANEL: Advances in Aerospace Optometry & Ophthalmology	S-068 HP PANEL: Looking Backwards & Forwards for Better HP & HIS for Design, Test, and Ops	S-083 POSTERS SPACE MEDICINE Over the Horizon but Under the Radar
11:30 am-1:30 pm	SPECIAL LUNCHEONS—Space Medicine Association							

1:30-3:00 p.m.	S-069 SPACE SLIDE: Topics in Future Space Medical Architecture and Training	S-070 HP SLIDE: Factors Impacting Human Performance	S-071 ATM PANEL: SARS-COV-2 Vaccination: Effectiveness, Safety, Certification, & Vaccine 'Passports'	S-072 HP PANEL: Collaborative Development of Aircrew Physiological Monitoring, Warning, & Mitigation	S-073 CLINICAL PANEL: Headaches in Aviators	S-074 CLINICAL SLIDE: Aeromedical Policy: If You Try, Sometimes You Get What You Need	S-075 OTHER PANEL: Ethical Dilemmas in Aerospace Medicine	S-084 POSTERS OTHER Diversity in Aerospace Medicine
3:30-5:00 p.m.	S-076 SPACE PANEL: Clinical Decision Support for Exploration Spaceflight	S-077 HP PANEL: Machine Evolution & Human Adaption: Aeromed. Res. & Pilot-Physicians	S-078 HP SLIDE: Human Factors/Flight Planning in Aviation	S-079 HP SLIDE: Making Sense of Physiology	S-080 CLINICAL PANEL: USAF Resident Grand Rounds	S-0831 CLINICAL PANEL: Still the Right Stuff? Aerospace Implications Post COVID-19	S-082 OTHER SLIDE: Extreme Environment Emergencies	S-085 POSTERS CLINICAL Cool Cases and Interesting Populations

COLOR CODE	HUMAN PERFORMANCE (HP)	CLINICAL MEDICINE	TRAVEL/AIR TRANSPORT MEDICINE (ATM)	SPACE MEDICINE	SAFETY	OTHER/HISTORY
-------------------	-------------------------------	--------------------------	--	-----------------------	---------------	----------------------