



91st AsMA Annual Scientific Meeting: Optimizing Human Performance via Selection and Training

Hyatt Regency Atlanta, Atlanta, GA, USA

May 18 - 21, 2020

Call for Abstracts

Deadline: November 1, 2019
No Exceptions!

The 91st Annual Scientific Meeting of the Aerospace Medical Association will be held in 2020 in Atlanta, GA, USA. This year's theme is "Optimizing Human Performance via Selection & Training."

Aerospace Medicine rests on a foundation of traditional clinical medicine but goes well beyond. Selection standards are largely based on threats and risks to operational tasks at hand. Training for operators and controllers on physiologic limitations and countermeasures has been a mainstay of optimizing performance. Protective equipment (technology) and Rules of Engagement (policy) add extra rigor in further enhancing human performance. But selection and training are "before the bang," that is, prior to the actual need for maximum performance. This year, we seek unique or novel combinations of medicine, engineering, physiology, psychology, nursing and social sciences that better select and train individuals for maximum performance, both within the aerospace world and from other "operations" that have high performance demands. Individuals and groups outside of aerospace medicine may offer successful solutions, approaches or perspectives that could be leveraged by aviation or space operations for optimizing performance. You may learn a novel way to optimize your specific operations. Join us in Atlanta.

The Annual Scientific Meeting is the premier international forum to learn and discuss evolving trends and multidisciplinary best practices in research, clinical applications, human performance, and flight safety. The 91st Annual Scientific Meeting welcomes abstracts in the many areas related to Aerospace Medicine. For a complete list see the box on p. 2 of this form.

ASMA ABSTRACT SUBMISSION PROCESS

All abstracts must be submitted via the electronic submission system linked to the association's web site:

<https://www.asma.org>.

(LIMIT: 350 words/2500 characters including spaces)

ATTENTION: You **MUST** use personal email addresses when entering your abstracts and those of your co-authors.

ABSTRACT TYPES AND CATEGORIES

The Annual Scientific Meeting highlights several types of presentation formats. Posters are on display for two full conference days, each in its assigned space. Authors will be asked to present their poster for a single designated 120-min period on one of these days. Slide presentations will be organized by topic area and presented during 90-minute blocks of time, 6 periods of 15 minutes each. Individual slide presentations are limited to 15 minutes, including 3 to 5 minutes for questions and discussion. Panels also have 90 minutes. Ideally 5 presentations of 15 minutes each, followed by a 15-minute discussion period.

There are four types of submissions, all of which will require MOC questions to be provided by the author(s):

1. Poster: Standalone Poster presentation that will be integrated into a session, grouped by topic.

2. Slide: Standalone 15-minute slide presentation with ques-

tions/discussion that will be integrated into a session, grouped by topic.

3. Individual Panel: Presentation that will link to support a Panel Overview containing five (non-case study) or six (case study) abstracts presented as a cohesive whole.

4. Individual Workshop: Presentation that will link to and support a Workshop Overview.

There are two categories based on the topic to be presented:

1. Original Research: Material that is original in nature and has not been previously presented. Original analysis of a hypothesis involving data collection and analysis. Headings include Introduction, Methods, Results and Discussion.

2. Education: Material is a review or summary of material intended for teaching.

a. Program / Process Review: Description of a program or process that is used to solve a problem or accomplish a task. Headings include Background, Description and Discussion.

b. Education / Tutorial: An educational session intended as a review of established material. Headings include Introduction, Topic and Application.

c. Case Study: Clinical or Human Performance related to hands-on medical decision-making by physician-patient. Headings include Introduction, Case Description and Discussion.

Topic areas (see p.2) will be listed on a drop-down menu on the submission site. They are used to organize the abstracts into sessions. Templates and examples (previously published in the AsMA journal) are provided for each type and will be available at the abstract submission website. Authors will be required to enter abstract text under the headings as described above.

PANEL GUIDANCE

Panels must be composed of a coordinated sequence of 4-5 abstracts that flow logically from one to another supporting the central theme. Panels must contain abstracts that allow 15 minutes of structured discussion during the sixth period.

Case Study Panels: Case Study Panels can have 6 abstracts, and are intended to highlight a particular institution, community or aeromedical issue, usually presented from the same institution or aeromedical community.

It is the responsibility of the Panel Chairs to ensure that the abstract authors describe in each abstract how it relates to the Panel theme. If the Panel theme is not clearly identified and/or the abstracts do not support a central theme, the Scientific Programming Committee may unbundle individual abstracts and evaluate them as separate slide or poster abstracts. Unrelated abstracts from a laboratory or organization do not constitute a Panel (unless they are Case Studies). Panel Chairs are also responsible for preparing questions and discussion points to facilitate a moderated discussion with the audience during the sixth period. Each Panel speaker should cite or link directly to the Panel theme, and at the end of their talk should provide a logical segue to the next abstract.

WORKSHOPS

Rules for workshops and the review process are similar to those for Panels (above). Overview abstracts should reflect the material to be presented in this long format for up to 8 hours of CME credit. Three MOC questions per hour of presentation will be required. Individual abstracts must be entered for each presenter and all necessary information must be entered in the same manner as all other abstracts, including conflict of interest statements. Course materials should be made available for registrants. A separate fee is charged for Workshops registration. For additional information contact Jeff Sventek, Executive Director, at jsventek@asma.org.

AsMA Abstract Submission Process

All abstracts must be submitted via the electronic submission system linked to the association's web site: <https://www.asma.org>. Click on the link to the abstract submission site—available on the AsMA home page and Meetings page on or about September 1, 2019. Authors with questions regarding the abstract submission process should contact AsMA directly at (703) 739-2240, x101 (Ms. Pam Day); or e-mail pday@asma.org.

The following information is required during the submission process: Abstract title, presenting author information (including complete mailing and e-mail addresses and telephone numbers), topic area (from list provided on back of form), contributing authors and their e-mails and institutions, abstract (**LIMIT: 350 words/2500 characters including spaces**), learning objectives (the Accreditation Council for Continuing Medical Education-ACCME-requires a brief sentence on the speaker's learning objectives for the audience), AND two (2) multiple choice questions and answers will be required for each presentation for Maintenance of Certification (MOC). Read instructions online for further details. Poster presenters are required to upload a pdf of their poster in advance of the meeting.

PLEASE NOTE: Presenters (including panelists) are required to register for the meeting. There is a discounted fee for non-member presenters. *Registration limited to the day of presentation will be available onsite.*

Financial Disclosure/Conflict of Interest/Ethics

Abstracts will not be accepted without a financial disclosure/conflict of interest form. The form is included in the website submission process. The presenting author must agree to comply. Scientific presentations at AsMA-sponsored events will adhere to the highest standards of scientific ethics, including appropriate acknowledgment or reference to scientific and/or financial sources. Presenters must avoid the endorsement of commercial products in their abstracts and during their presentations. There must be no advertisements on Posters, AV, or handout materials.

Presentation Retention Policy

AsMA will use live capture to make presentations from the Meeting available to members / attendees after the meeting. Authors are required to provide permission for live capture and a nonexclusive license to repurpose the content. An electronic copy of the presentation suitable for release at the time of the presentation must be provided. PDF copies of Poster presentations must be uploaded to the submission site.

Permissions and Clearances

It is the author's responsibility to obtain all necessary permissions and clearances prior to submission of the abstract. AsMA assumes no liability or responsibility for the publication of any submitted material.

Acceptance Process

Abstracts will be reviewed by a minimum of three members of the AsMA Scientific Program Committee. Acceptance will be based on the abstract's originality, relevance, scientific quality, and adherence to the guidelines provided. Criteria for non-acceptance include, but are not limited to, insufficient, inconsistent, or ambiguous data, commercialism, or reviews of previously published literature. **Abstracts must be 100% complete upon submission, including all final data and results.** How well authors abide by submission and format guidelines will also be one of the criteria used to determine acceptance of abstracts.

Presenters are limited to **one** senior-authored presentation, unless given specific prior permission by the Scientific Program Committee Chair, Nicholas Green M.B.B.S., Ph.D., D.Av.Med., MRAeS, at: sciprogram@asma.org. Following review by the Scientific Program Committee in November, all contributors will receive a notification of acceptance or non-acceptance by e-mail. Accepted abstracts will be published in *Aerospace Medicine and Human Performance*.

While the Scientific Program Committee strives to honor the presenter's desired presentation format, for reasons such as space limitations or dissimilar content, an abstract may be changed to an alternative presentation format. Assignment of an abstract to either a poster or a slide presentation will be recommended by the Scientific Program Committee, but the final decision will be made by the Program Chair.

Abstract Withdrawal

Withdrawing abstracts is strongly discouraged. However, if necessary, a request to withdraw an abstract should be sent to Nicholas Green, the Scientific Program Chair, at sciprogram@asma.org; and Pam Day at pday@asma.org. The request for withdrawal must include the abstract title, authors, ID number, and reason for withdrawal. Due to publishing deadlines, withdrawal notification should be received by January 15, 2020. As abstracts are published in *Aerospace Medicine and Human Performance* prior to the scientific meeting, a list of abstracts withdrawn or not presented will be printed in the journal following the annual meeting.

TOPIC AREAS: (These will be listed on a drop-down menu on the submission site. They are used to organize the abstracts into sessions.)

1: Human Performance

- 1.1 Personnel Selection
- 1.2 Human Performance & Physiology Training
- 1.3 Hypobaric & Hyperbaric Physiology
- 1.4 Thermal Physiology
- 1.5 Acceleration / Vibration/ Impact
- 1.6 Fatigue
- 1.7 Neurophysiology & Sensory (inc. Vision, Auditory & Vestibular)
- 1.8 Aerospace Human Factors
- 1.9 Aerospace Human Systems Integration
- 1.10 Aerospace Psychology

2: Clinical Medicine

- 2.1 Aviation Medicine

- 2.2 Health Promotion and Wellness Programs
 - 2.3 Medical Standards / Aircrew Health
 - 2.4 Occupational / Environmental Medicine
 - 2.5 Operational Medicine
 - 2.6 Hyperbaric Medicine
- ### 3: Travel and Transport Medicine
- 3.1 Travel Medicine
 - 3.2 Aeromedical Transport / Air Evacuation
 - 3.3 Air Transport Medicine
 - 3.4 Commercial
- ### 4: Space Medicine
- 4.1 Space Medicine
 - 4.2 Space Operations
- ### 5: Safety and Survivability
- 5.1. Escape / Survival
 - 5.2. Flight Safety/Accident Investigation
- ### 6: Other
- 6.1 History of Aerospace Medicine
 - 6.2 Other Related Topics

Follow the link to the abstract submission site on our home page: <https://www.asma.org>
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