



Aerospace Human Factors Association

A Constituent Organization of the Aerospace Medical Association

NEWSLETTER

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Nominations for AsHFA Officers are due November 1, 2009. See Page 10 for qualifications.

Nominations for AsHFA Fellows. See Page 3 for requirements

AsMA Scientific Meeting Calendar

Phoenix, Arizona May 8-13, 2010
Anchorage, AK May 8-12, 2011
Atlanta, Georgia May 13-17, 2012

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Letter from the President



Greetings AsHFA members,

I enjoyed visiting with many of you during our AsHFA meetings in Los Angeles. I am pleased that we were able to capture many memorable moments from the conference. We have included coverage of our

award winners, new fellow, and our second student representative (see inserted pictures).

We are making an effort to update our address book so that we can remove any obstacle from you receiving the newsletter. All newsletters are also posted on the AsHFA website (<http://www.asma.org/Organization/ashfa/>).

Although several members did respond to my survey at the luncheon table, I wanted to reach out to all and ask for your consideration and feedback on the high school award before I pursued it any further. I would like to approach 3 aviation high schools and ask if their students complete a science project during the course of their studies. My proposal is that we solicit submissions from the participating students and offer a prize of \$250 to the outstanding project. Provided that I do not receive any strong objections from you concerning this proposal, I will approach the principals and ask for their assistance in soliciting nominations.

AsFHA Officers 2009-2010

President	President-Elect	Past- President	Secretary	Treasurer
<p>Carla A. Hackworth, PhD Civil Aerospace Medical Institute FAA CAMI AAM-510 P. O. Box 25082 Oklahoma City, OK 73125 Phone: (405) 954-6299 carla.hackworth@faa.gov</p>	<p>Lloyd D. Tripp, PhD 3701 Olde Willow Drive Dayton, OH 45431-2415 Phone: (937) 431-1475 lloyd.tripp@wpafb.af.mil</p>	<p>Larry Bailey, PhD Civil Aerospace Medical Institute FAA/CAMI, AAM-520 P.O. Box 25082 Oklahoma City, OK 73125 Phone: (405) 954-6839 larry.l.bailey@faa.gov</p>	<p>David J. Schoeder, PhD 2601 NW 23rd St. Oklahoma City, OK 73107 Phone: (405) 517- 8323 davids20@cox.net</p>	<p>Thomas E. Nesthus, PhD Civil Aerospace Medical Institute FAA CAMI AAM-510 P. O. Box 25082 Oklahoma City, OK 73125 Phone: (405) 954-6297 tom.nesthus@faa.gov</p>

Letter from the President (Cont.)

From the survey, I also learned that the majority of you are interested in a social gathering during AsMA. Therefore, we discussed the possibility at our business meeting and found that Aerospace Physiology would like to partner in a social hour in Phoenix during our next AsMA meeting. We are working on the details and will try to find a time that does not conflict with the many other events that occur at AsMA. I believe this will be an exciting addition to our activities.

Thank you again to the many that have offered to help with panels, awards, and nominations. I look forward to working with you during the next year. If you have any questions concerning AsHFA, please contact me or any of the Executive Committee members.

Sincerely,

Carla Hackworth

Letter from the President to New Members

To our new members I say welcome and please get involved in AsHFA. As a way of facilitating that process, I would like to create a list of people who would be willing to volunteer up to an hour of their time in support of AsHFA activities. I would then contact you to see if were available to help when a particular need arises.

For example, when I was program chair for AsHFA panels, there were occasions when one or more of the panel members was not an ASMA member and/or was not familiar with how to enter his/her abstract information. I would have appreciated it if I could have had an AsHFA member that I could have called upon to walk individuals through the abstract entry process. I use this example because it is an activity that by itself would not take up much time, but when added to all that is involved with being the program chair during abstract submission time, sometime there is not time to do the little things that can make a big difference.

So to our new members and our established members, if you are not already fulfilling an AsHFA office please email me your contact information indicating that you would like to be a volunteer. My email is Carla.Hackworth@FAA.gov

- Carla

During our AsHFA business meeting, we held discussions on Panel ideas for our next meeting in Phoenix. Below are the list of proposed topics and an initial list of presenters. Please let us know if you have any additional ideas or suggested presenters to the respective POC.

PANELS IDEAS FOR ASMA PHOENIX 2010

1. Fatigue Risk Management Systems
 - a. POC – Melissa Ziarnick
 - b. Presenters
 - i. Chris Alsten
 - c. 2 session panel – co-sponsor physiology
2. Controversies in Brain Injury
 - a. POC – Mike Russo
 - b. Presenters
 - i. David Dinges
 - ii. Kirby Gilliland
 - iii. Bob Schlegel
3. Measures of Cognitive Workload
 - a. POC – Larry Bailey
 - b. Presenters
 - i. Judith Orasanu
4. UAV
 - a. POC – Tom Nesthus, Lloyd Tripp
 - b. Presenters
 - i. Shawnee Williams
 - ii. Melissa Ziarnick

Call for AsHFA Fellow Nominations

The Aerospace Human Factors Association has many members who have inspiring records of accomplishment in conducting research and in applying human factors knowledge and methods to enhance safety, effectiveness, and efficiency in a wide variety of aerospace activities. As an AsHFA Member, you are encouraged to nominate deserving colleagues who meet the requirements for Fellow, as described below.

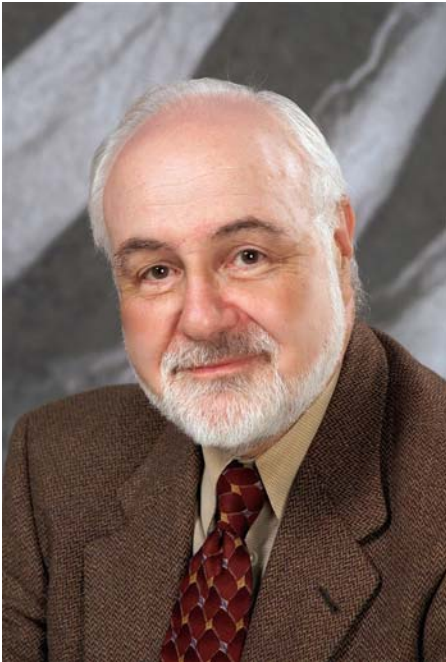
Fellows of AsHFA shall be persons who:

- (a) are members of the Aerospace Medical Association,
- (b) have been AsHFA Members for at least five years,
- (c) have contributed significant service to AsHFA,
- (d) have had at least five years of work experience related to aerospace human factors,
- (e) have been nominated by a current member of AsHFA for unusual and outstanding contributions or performance in the field of Aerospace Human Factors
- (f) have been approved and elected by a majority vote of the Fellows of the AsHFA.

Those submitting nominations should state the basis for their nomination, provide supporting documentation, and send the nominating material via e-mail the Chair of the AsHFA Fellows group, Malcolm Cohen, at malcohen@aol.com.

2009 AsHFA Award Recipients

Henry L. Taylor Founder's Award



Presented to Malcolm M. Cohen, Ph.D. for outstanding contributions in the field of aerospace human factors.

Throughout his career, Dr. Cohen's research has largely been concerned with human perception and psychomotor performance, particularly as they are altered by exposure to the unusual environmental conditions encountered in aircraft and spacecraft. Dr. Cohen will be the guest speaker at AsHFA's 2010 Luncheon and Business Meeting in Phoenix, Arizona.

Dr. Malcolm Cohen was educated at Brandeis University and the University of Pennsylvania, where he received his Ph.D. in Experimental Psychology in 1965. He worked as a Research Psychologist at the Naval Air Material Center and the Naval Air Engineering Center in Philadelphia, as well as at the Naval Air Development Center in Warminster, Pennsylvania, where he served as a Supervisory Research Psychologist until 1982, when he transferred to NASA-Ames Research Center, at Moffett Field, California. Cohen served as the Assistant Chief of the Biomedical Research Division, the Chief of the Neurosciences Branch, the Chief of the Human Information Processing

Research Branch, and as a Principal Investigator and Research Scientist until 2005, when he retired from NASA. Over the years, Dr. Cohen's contributions to NASA were recognized by numerous awards, including the NASA Medal for Exceptional Scientific Achievement, and three Group Achievement Awards: one for his work on the Lunar and Mars Exploration Initiative Team, one for his work on the Neurolab Spacelab Mission Science Team, and one for his contributions to the NASA Astrobiology Team.

Dr. Cohen is a Fellow of the Aerospace Medical Association, and the recipient of both the Environmental Science Award and the Raymond F. Longacre Award for "outstanding accomplishment in the Psychological and Psychiatric aspects of Aerospace Medicine." He is also a Fellow and Past-President of the Aerospace Human Factors Association. In addition, Cohen is an Associate Fellow of the American Institute of Aeronautics and Astronautics, having received both an AIAA Leadership and Service Award, and the Jeffries Aerospace Medicine and Life Sciences Research Award for outstanding work in "developing, assessing, and implementing countermeasures to physiological and psychological effects of all aspects of space travel." His other professional affiliations have included membership in the American Association for the Advancement of Science, the New York Academy of Sciences, the Psychonomic Society, and the Society of the Sigma Xi.

Dr. Cohen has been an adjunct faculty member at several Universities, including Drexel University, the State University of New York College of Optometry, the Naval Postgraduate School, and the University of North Carolina; he also was a lecturer in the Department of Aeronautics and Astronautics, and a Consulting Professor in the Human Biology Program at Stanford University for several years; he has presented and published more than one hundred papers in the general areas of Aerospace Human Factors, Physiology and Psychology. Currently, Dr. Cohen is a member of the NASA-Ames Human Research Institutional Review Board, and the External Advisory Council

of the National Space Biological Research Institute. He is the principal consultant and sole proprietor of Malcolm M. Cohen, Ph.D., and Associates, which provides research, consultation, and advice in the area of Aerospace Human Factors.

Stanley N. Roscoe Award



Presented to Dr. Melanie D. LeGoullon, Ph.D for the best Aerospace Human Factors doctoral dissertation.

Dr. Melanie LeGoullon was awarded AsHFA's Stanley N. Roscoe Award for the best doctoral dissertation written in a research area related to Aerospace Human Factors. Her dissertation was entitled "Resumption Errors Following an Interruption in a Hierarchically Structured Task with Novices and Experts" addressed the following questions: Previous research had demonstrated that response times peak immediately following an interruption and return to baseline over the next few steps. Dr. LeGoullon was curious to know if error rates follow this same pattern and if so where do those additional errors appear? Are they localized near the resumption point or is there an extended window of vulnerability following an interruption during which time errors are more likely to occur? Do interruptions simply result in more of the same types of errors seen in baseline performance, or do they show a bias toward specific types? Finally, can expertise mitigate these deleterious effects, both time-wise and error-wise?

Dr. LeGoullon is a Human Factors Scientist at Perceptronics Solutions' Washington, D.C. office. She has extensive experience conducting human factors and cognitive research within the aviation industry. Dr. LeGoullon's expertise is centered on human error in automated systems. She has collaborated with several airlines to improve pilot performance in highly automated cockpits, and is herself a private pilot. She holds a B.A. in Biology from Cornell University and a M.A. and Ph.D. in Cognitive Psychology from George Mason University. While pursuing her Ph.D., Dr. LeGoullon was also a fellow in NASA's Graduate Student Researchers Program.

William E. Collins Award



Presented to Dr. Jeffery K. Hovis, Ph.D. for Outstanding Human Factors Publication of the Year

The Aerospace Human Factors Association presented the William E. Collins Award for "Outstanding Human Factors Publication of the Year" to Jeffery K. Hovis, Ph.D. for his article entitled "Repeatability of the Holmes-Wright Type A lantern color vision test published in *Aviation Space Environmental Medicine* 2008; 79: 1028-33.

Dr. Hovis received his Doctor of Optometry degree from The Ohio State University and his PhD degree in Physiological Optics from Indiana University before joining the University of Waterloo School of Optometry faculty where he has been a member for over 20 years. He has an active research program in developing performance-related vision standards for law enforcement, aviation, maritime and railway industries. The main focus of this research has been to develop occupationally-relevant color vision standards and tests for the transportation industries. This work has led to the development of a lantern test and a color vision test for dispatchers used by the Canadian railways. He has been a member of several panels and research groups reviewing vision standards for civilian pilots in Canada. In addition to research on vision standards, Dr Hovis has also been investigating visual performance and optical properties of ballistic protective eye wear for the Canada Land Forces. He has been a member of AsMA and the AsHFA for many years and has helped organize workshops and discussion panels on color vision at past AsMA meetings.

AsHFA Luncheon & Business Meeting Pictures

Monday, May 4, 2009 from 12:00 to 2:00 p.m.
The Westin Bonaventure Hotel, Beaudry B Room.



AsHFA Luncheon Attendees



Meeting new people and visiting with friends.



Ron Hoffman (left); CAPT David F. Neri (right)



Nelda J. Milburn (left); Ron Hoffman (right)



Dwight A. Holland (left); Ron Hoffman (right)



Henry L. Taylor 2008 Award Winner
Luncheon Speaker: Stanley R. Mohler



Larry Bailey (left); Ron Hoffman (right)



Stanley R. Mohler (left); Ron Hoffman (right)



Business Meeting Attendees



ASHFA Members sharing during lunch



ASHFA Luncheon Attendees



James DeVoll



ASHFA Luncheon Attendees



ASHFA Co-Student Representative
Melissa Ziarnick

**RECOGNITION OF DR.
MELCHOR ANTUNANO AS
ASHFA FELLOW**



Dr. Antuñano (Left); Carla Hackworth (Right)

AsHFA New Members May 2009:

Frederick Bonato, PhD

Psychology Department
Saint Peter's College
2641 Kennedy Boulevard
Jersey City, NJ 07306

Thomas E. Hatley, MD, MPH

AAM-700
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Steven R. Hursh, PhD

President, Institutes for Behavior Resources
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Capt. Nathan Maertens, MS

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thoma0dd@erau.edu
dana.thomas@person.af.mil

Nomination for AsHFA Officers

Please submit your nominations, by ***January 31st, 2010*** for President Elect and for Member at Large, and for AsHFA's Representative to the ASMA Executive Council to:

lloyd.tripp@wpafb.af.mil

Listed below are the qualifications as stated in the AsHFA ByLaws. **Please contact your nominees before submitting their names to ensure their willingness to serve if elected.**

Duties of the President. It shall be the duty of the President to preside at all meetings of the Association; to act as Chair of the Association Executive Committee; to exercise supervision over the affairs of the Association with the approval of the Executive Committee; and to perform such other duties as are incidental to the office or as may properly be required by vote of the Association Executive Committee. In the absence or incapacity of the President, the duties of President shall be assumed by the President-Elect.

1. _____
2. _____

Duties of the Member-at-Large. It shall be the duties of the Members-at-Large to serve as members of the Nominations and Elections Committee, as provided in Article V, Section 4; and serve as members of the Association Executive Committee. They may also be designated to provide assistance to the Program Committee, the Membership Committee, or the Association Representative, or be given special assignments, at the discretion of the President.

1. _____
2. _____

Duties of the AsHFA Representative to Council. It shall be the duty of the Association Representative to the AsMA Executive Council to perform the duties and accept the responsibilities specified in Article IV of the By-Laws of AsMA. Members of Council are a primary force in enabling the ASMA to achieve its mission and goals, realize its opportunities and fulfill its obligations to the fellows and members of the association. As the policy-making body for the association, members of Council have the ultimate responsibility for the management of the affairs of the association. They are expected to bring a sincere conviction that the association performs a critical function and plays an important role in advancing the field of aerospace medicine as defined in the bylaws of AsMA and are expected to always act in the best interest of the association.

1. _____
2. _____
3. _____

Once the nominees have been reviewed for their ASMA and AsHFA membership status, their names will appear on a separate voting ballot that will be distributed to the AsHFA membership in January 2010.



Aerospace Human Factors Association
A Constituent Organization of the Aerospace Medical Association

Aerospace Human Factors Association Annual Dues

Current AsMA Member: Yes ___ No ___ (Constituent Organization Members **must** be AsMA Members)

AsHFA member: _____ Renewal _____ Year _____ New Member

NAME/Title: _____

Highest Degree: _____ Year: _____

Specialty: _____

Degree received from: _____

Preferred Address: Home ___ or Business ___ (please check one)

Phone: () _____ Home ___ or Business ___ (check one)

Email: _____

Three areas of interest: _____

Other AsMA-related Memberships _____

Send completed form and a \$15.00 check, drawn from a U.S. Bank payable to:

Aerospace Human Factors Association Membership

Thomas Nesthus

1804 Woodland Rd

Edmond, OK 73013