

# President's Page

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A seemingly trivial thing, at first thought, is the idea of community building among those of us who are involved in Aerospace Medicine. The more I think about this, however, the more important I think it is to both our professions and to the Association, and the more I think we can do a better job of it. If we build a better community, we will reap enhanced benefits from our improved interactions.

The puzzle involves recognizing the need in the first place. There is such a strong sense of community at the Annual Scientific Meeting that you think it would last through the year. People interact well. You see Army and Navy, psychologists and nurses, international members and exhibitors, students and emeritus members – all talking, and sharing ideas and perspectives. Networks are formed, friendships begun.

But what can be witnessed in abundance at the Meeting tends to fade through the rest of the year. It becomes a one-way discussion – the journal arrives once a month and for many members that is the limit of their contact with our Association. Those who visit our website find a wealth of important information, but there is no interaction.

This need not be. There are opportunities for ongoing involvement and interchange among us. Getting involved in AsMA leadership will keep you involved year-round, but it can take a while to get on Council or become a Committee Chair. A good way to remain involved in our community is to become a committee member.

Committee chairs can be seen on the web site (go to <http://www.asma.org/aboutasma/committees.php>). Find a committee with members you like, or a chair that you know, or that covers an area you would enjoy working or have an interest in. Email the Chair and volunteer. In most cases you will become engaged in interaction with other members. Be aware that some committees (like Nominating) have a fixed membership and can't take volunteers, but most committees are open and welcome offers of help.

Committee membership is a great way to get to know other members, to feel like a member of the team, and to become a part of the many things this Association does, year-round.

Think about it. Aerospace Medicine needs your help, and your involvement.

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A group of us have been discussing the whole idea of community and how to help an AsMA community serve members better, and facilitate the interactive



**Robert W. Weien, M.D., M.P.H.**

flow of information. If you have any ideas on that topic, please contact me. My email address is below, or can be found in the Members section of [asma.org](http://asma.org).

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If you have not already done so, begin thinking about what you've done lately that is worthy of presentation at our next Meeting. Phoenix in May 2010 seems a long way off, but the abstract submission period is coming up very soon, and the deadline of 31 October will be on us before you know it. Dr. John Crowley and his Scientific Program Committee will be working diligently to get the abstracts ready for their meeting in November, to assemble the program for Phoenix.

So get going on those abstracts!

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We recently lost one of our greats. Professor John Ernsting has died. Elsewhere in this issue is an In Memoriam, which summarizes his life. He was an outstanding teacher, and a groundbreaking researcher. He was truly one of the great leaders in our field. I had the opportunity to work at the Institute of Aviation Medicine while he was Commandant, and will forever remember the time fondly, in large part due to his leadership.

On behalf of AsMA, I would like to offer our deepest sympathies and sincere condolences to his family, friends, and colleagues.

A lesson to draw from his passing is that we all need to learn what we can from each other, while we still have that opportunity.

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As always, if you have suggestions or concerns, please feel free to contact me at [president@asma.org](mailto:president@asma.org).

# Association News

## Sides Elected as President-Elect of AsMA; Weien Installed as President

Marian B. Sides, Ph.D., R.N., [Col., USAFR(Ret)], has been elected as President-Elect of the Aerospace Medical Association at their Annual Business Meeting, May 5, 2009, Westin Bonaventure Hotel, Los Angeles, CA.



She will succeed to the presidency in 2010. She is the second woman and first nurse to be elected to this position. Dr. Sides was born and raised in Two Rivers, WI. She moved to Chicago and attended DePaul University, where she received

a baccalaureate degree in Nursing in 1967, a Master's Degree in Nursing from Loyola University in 1971, and a Ph.D. in Higher Education with a major emphasis in measurement and evaluation from The University of Chicago in 1984. Col. Sides has been founder and President of Education Enterprises Inc. since 1983. She has served as Vice President of the University of Chicago Hospitals from 1984-1988 and was adjunct/clinical professor in Nursing at the University of Wisconsin from 1988 to 1996.

Col. Sides joined the Air Force Reserves and was commissioned as a Captain in 1978. She served as Officer in Charge of Training and as a flight instructor in the 63rd Aeromedical Evacuation Squadron. She was promoted to the rank of Major and served as assistant chief nurse from September 1984 to October 1992. She was a troop commander in Operation Desert Storm, and a Field Commander in Operation Provide Comfort in 1991, where she flew 26 combat sorties in the C-130 aircraft and participated in aeromedical evacuation and in-flight care for nearly 300 enemy prisoners of war and allied injured. As a lieutenant colonel she received the Mary T. Klinker Award, sponsored by the Aerospace Medical Association, for significant achievements in the field of aeromedical evacuation and humanitarian mission support. In 1993 she was selected as the Commander of the 928th Aeromedical Evacuation Squadron, O'Hare International Airport, IL, and was promoted to the rank of Colonel. Col. Sides has logged over 1800 flying hours in the C-130, C-9, and C-141 aircraft.

In 1996 Col Sides was selected to the position of Individual Mobilization Augmentee, Prevention Division, AFMOA, Office of the Surgeon General, Bolling AFB, DC, and served on the Air Staff, Pentagon, where she executed programs in aerospace medicine, health promotion, and wellness, in support of health care needs of over 2.5 million beneficiaries. She served as instructor for more than 20 Top Star support tours at Lackland AFB and Travis AFB between September 2000 and May 2004 training over 600 participants, integrating

principles of holistic fitness and readiness of the war-fighting forces.

Her military awards, honors, and decorations include the Meritorious Service Medal with two oak leaf clusters, the Air Force Commendation Medal with two oak leaf clusters, Air Medal, Kuwaiti Liberation Medal, National Defense Service Medal, South West Asia Service Medal, Humanitarian Service Medal, and the Combat Readiness Medal.

An AsMA Fellow, Col. Sides has devoted much of her spare time to the Association. She has served as Vice President for Member Services, has served on the Executive Committee for 10 years, and has been on the AsMA Council since 1992. She also served as President of the Flight Nurse Society for 1991-92, and was awarded their Brig. Gen. E. A. Hoefly Award in 1989. She was the principal organizer of an international research effort in space medicine to promote astronaut health and safety in travel beyond Earth, the Bellagio Conference held in October 2004 in Bellagio, Italy. She also chaired two panels in conjunction with the Bellagio study and published "The Bellagio Report: Cardiovascular Risks of Spaceflight: Implications for the Future of Space Travel," in *Aviation, Space and Environmental Medicine*, September 2005. Col. Sides was the AsMA Scientific Program Chair in 1998, presented more than 20 scientific papers, and designed, presented, or chaired more than 25 panels. As chair of the Corporate and Sustaining Membership Committee of AsMA for many years she has worked tirelessly to recruit and maintain the support of corporate members and founded the Corporate and Sustaining Affiliate.

**Robert W. Weien, M.D., M.P.H.** has been installed as the 2009-2010 President of the Aerospace Medical Association (AsMA). Dr. Weien is a retired U.S. Army Colonel, and is currently an Associate Aeromedical Advisor with the Aviation Medicine Advisory Service in Aurora, CO. He lives in Colorado Springs with his wife and two daughters. He is an FAA certified flight instructor, and flies sailplanes for recreation. [A full biography was printed last year (ASEM 2008; 79:811), and is available on the journal page of our website.]

### Other AsMA Elected Officers:

The newly-elected Vice Presidents are: **Jarnail Singh, M.D., and James T. Webb, Ph.D.** **Warren Silberman, M.D., and Carol Manning, Ph.D.,** continue as VPs. The elected members at large with terms through 2012 are **Fanancy L. Anzalone, M.D., M.P.H., Charles A. DeJohn, D.O., James R. DeVoll, M.D., M.P.H., and Col. ret. Hans A. Pongratz, GAF, MC.** In addition, **Daniel J. Callan, D.O., M.P.H.-TM,** was elected to fill the member-at-large seat vacated when Dr. Webb was elected VP. **Arleen Saenger, M.D.,** was elected Secretary, **P. Glenn Merchant, Jr., M.D.,** con-

tinues as Treasurer, and **Russell B. Rayman, M.D.,** remains Executive Director.

### AsMA Council Meeting Highlights:

May 3 and 6, 2009, Westin Bonaventure, Los Angeles, CA

Council minutes of November 19, 2008 were approved as read. The issue of succession for the Executive Director position was discussed at length. A motion was made that approval of the new Executive Director can be done by email vote. Quorum requires that 40% of the Council votes in order to make it valid. A motion to amend was made and approved that each Council member must respond within 7 days.

### GOVERNANCE – (WEIEN)

**Home Office – (Rayman):** The ED informed Council that the major issue at the Home Office has been the selection of a new IT system.

**Finance – (Merchant):** The 2009 budget was previously approved. We had an approximate \$46,000 gain at the end of calendar year 2008. Our investments with Merrill Lynch are \$858,000. We have done very well considering the state of the economy, though our portfolio is down slightly. A new CPA has been hired. The application for 501 (c)3 is now in progress which will allow members to deduct their meeting expenses as charitable.

### REPRESENTATION AND ADVOCACY – (MANNING)

**ATM Committee– (Dowdall):** The committee prepared a letter regarding the high accident rate for medevac helicopters. The Committee is currently working on two policy documents: the medical screening of airline passengers and radiation exposure to crews.

**Communications Committee– (Dervay):** Dr. Dervay provided Council a review of the deliberations of the ad hoc committee to upgrade the Home Office's IT system. A company was chosen to work with the Home Office and the Officers regarding requirements. A request for

See COUNCIL, p. 753.

## Submit your 2009 Scientific Meeting Abstract

[www.asma.org](http://www.asma.org)

Site available: September 1, 2009  
Deadline: October 30, 2009

### New submission site!!!

Online step-by-step instructions will guide you through the process.

You will receive immediate confirmation with a control number for online submissions.

## COUNCIL, from p. 752.

proposal was sent to 10 companies of which 4 were selected by AsMA for possible contract. We have since chosen ISSI Mpak as our new membership and meeting data system. The contract was signed on June 1. Carol Manning and her ad hoc committee were congratulated by Council for their outstanding work.

*Resolutions Committee*—(Gillis): The Resolutions Committee submitted a CFIT resolution which was later presented and passed at the business meeting.

## EDUCATION AND RESEARCH – (ANZA-LONE)

### General

The ED announced that the position paper on medical standards for commercial space pilots flying suborbital flights had been approved and forwarded to all space agencies worldwide.

Dr. Mork has completed an aerospace medicine CME for online use but has not yet located a vendor.

The Cephalon grant will terminate at the conclusion of this meeting. The ED will then determine how much money is left in the grant and contact the company to see whether we can use any excess to pay for a supplement on the history of research at Brooks Air Force Base.

*Editor's Report*—(Nunneley): The Editor reported there were 123 manuscripts in the pipeline which is much higher than the last 2 years. She also informed Council that there are a number of interesting papers in review now, including one on disease transmission and evidence-based medicine for medical standards. The Search Committee for a new Editor-in-Chief interviewed applicants at this meeting. Dr. Nunneley had previously announced her intention to retire in January 2010. Council congratulated Dr. Nunneley and Assistant Editor Sarah Rubio for their outstanding work.

*Managing Editor's Report*—(Day): The Managing Editor reported that one supplement has been published in May. She is also looking for a new abstract submission company as our current company, COS, will no longer provide this service.

*Annual Meeting*—(Rayman): The ED announced that there were 961 advanced registrants, which is about 100 less than we normally have. This lower number is undoubtedly due in part to the economic situation worldwide and also to the H1N1 threat. It was requested that the ED survey exhibitors to see if they would be willing to remain longer than the customary two days. It was also recommended that we consider closing the exhibit area during the lunch hour.

*Scientific Program*—(Scarpa): Dr. Scarpa gave an overview of the process he used as Chair of the Science Program Committee. 465 abstracts were reviewed with a 3.2% rejection rate.

*AsHF Committee*—(Nesthus): The committee met mid-year in Alexandria and revised their 3-year plan. The many contributions to the Science and Technology column were acknowledged.

*Aviation Safety Committee*—(Angelici): The committee prepared a letter urging the airlines to retain their Aviation Safety Action Program (ASAP) which was sent to several airlines, the FAA, NTSB, and ATA.

*Education & Training*—(Boudreau): Dr.

Boudreau announced that we had passed our ACCME survey and that our write-ups are relatively minor and can be easily fixed. She stated that after extensive investigation of establishing a new Journal CME and MOC program, it was simply too expensive particularly since our members had shown little interest in the recent past. She suggested joining forces with sister organizations in delivering CME programs. Her committee is exploring this possible avenue. The Committee is also working on updating the aerospace medicine slide show.

*History & Archives*—(Mohler): The committee is to prepare a Reinhartz Historical Lecture Series to make use of funds donated years ago by the Reinhartz family.

*Science & Technology*—(Shender): The committee has prepared 89 Watch columns so far and now has articles through September. The committee suggested the collection of PowerPoint/Podcast presentations for future meetings be made available to the membership. An Ad hoc committee will be formed to investigate this.

## MEMBERS SERVICES – (SIDES)

### General

*The Norwegian Aviation Medicine Association* was approved for Affiliate membership.

*Awards Committee*—(Holland): This year, for the first time, the winners were listed on the AsMA website in advance of the meeting. It is hoped that more friends and family will be able to attend the ceremony.

*Membership*—(Silberman): AsMA currently has slightly less than 2,800 members which has been steady for the past 2 years. About 23% are international and 25% military. Dr. Sides gave a brief report of her Ad hoc Membership Committee.

*Corporate & Sustaining Membership Committee*—(Sides): There was a C&S forum held in November. The Committee is sponsoring a Hyperbaric Workshop at this meeting. Dr. Sides announced that she had prepared a 10 year progress report regarding the C&S Affiliate Group. Council congratulated Dr. Sides on her outstanding performance.

## OTHER REPORTS

Full reports of Constituent Organizations are on file in the Home Office.

*Foundation*—(Jennings): The Foundation has \$34,000 including \$10,500 in endowments. (This is for the Mohler Endowment, the winner of which will be announced this week.) In addition, the Foundation has made \$1,500 available to the Fellows Group to select a recipient for the coming year.

*AMSRO*—(Garbino): Dr. Garbino announced that membership has gone up by about 60% and their website is now active. He made a plea that members donate to the various student scholarships. Council applauded Dr. Garbino for his outstanding efforts.

The lack of Affiliate Organization attendance and reports was noted.

## GOVERNANCE – (WEIEN)

On Wednesday, after the Business Meeting and Aerospace Physiology Certification exam, further governance business was reported.

Three Executive Committee Members from Council: A motion was made, seconded, and carried appointing **Drs. Philip Scarpa, Joseph Dervay, and Charles DeJohn** to the Executive Committee.

*Constituent Members of Council*: Aerospace Human Factors Association—**Ray King, Ph.D.**;

American Society of Aerospace Medical Specialists—**Robert Johnson, M.D.**; International Association of Military Flight Surgeon Pilots—**CDR Edwin Y. Park, MC, USN**; Aerospace Physiology Society—**CAPT Vincent W. Musashe, MSC, USN**; Aerospace Nursing Society—**Lt. Col. Nora R. Taylor, USAFR, NC**; Life Sciences & Biomedical Engineering Branch—**Lloyd D. Tripp, Ph.D.**; Society of U.S. Naval Flight Surgeons—**CAPT John R. Heil, MC, USN**; Society of U.S. Air Force Flight Surgeons—**Col. Margaret B. Matarese, USAF, MC**; Airlines Medical Directors Association—**Gordon S. Landsman, M.D.**; U.S. Army Aviation Medical Association—**MAJ Justin T. Woodson, MC, USA**; and Space Medicine Association—**Patrick J. McGinnis, M.D.**

Constituent Members of the Nominating Committee are TBD and will be collected by the Home Office.

*Report of Representatives to Aerospace Physiology Certification Board*—(Martindale): **Valerie Martindale** will continue as Council representative to the Aerospace Physiology Certification Board.

A motion carried approving the following members of the Physiology Certification Board: **Miranda Hancock, Brian Swan, Brian Musselman, and Valerie Martindale**. The following candidates who passed the AsPC Board exam were approved: **Karyn Ayers, Amber Biles, Sean Lando, Nathan Maertens, and Melissa Ziarnick**.

It was announced the **Col. Donald White** would be the new Associate Fellows Chair for the coming year and that **Dr. Pete Mapes** would be the Fellows representative to Council. The representatives will be asked for a report at future Council meetings.

## INSTALLATION OF NEW PRESIDENT

On Wednesday, CDR Bellenkes passed the gavel to Dr. Weien who announced the following Vice Presidents: **Dr. Carol Manning** (Representation & Advocacy), **Dr. James Webb** (Education & Research), **Dr. Warren Silberman** (Member Services), and **Dr. Jarnail Singh** (International Activities).

The next Council meeting is scheduled for November 18th in Alexandria, VA.



**WELCOME RECEPTION**--The Sunday evening Welcome Reception was sponsored by the Mayo Clinic.

## 55th Bauer Lecture: "Aerospace Medicine and the Space Race" — Charles Berry, M.D.

On May 4, 2009, Charles A. Berry, M.D., gave the opening 55th Annual Louis H. Bauer Lecture during the AsMA 80th Scientific Meeting in Los Angeles, CA. Dr. Berry is a consultant in aerospace medicine and former Director of Medical Research and Operations Manned Spaceflight Center and Director of Life Sciences for NASA. His lecture covered points in aerospace medicine history in counterpoint to the space race between the United States and the U.S.S.R., which started in October 1957 with the launch of Sputnik. A year earlier, Dr. Berry had been involved in creating standards and screening pilots at the U.S. Air Force School of Aerospace Medicine. The concern after the launch of Sputnik was about possible weapons in space; this was further compounded by the Cold War. At that time, the United States still had no functional rockets.

In January 1958, the United States finally met the challenge with the launch of Explorer 1, which led to the discovery of the Van Allen radiation belts. Explorer 1 was followed by the Vanguard 1 in March 1958. In December of that year, President Eisenhower approved the first pool of human volunteers to become astronauts. The first astronauts were selected and announced in April 1959. Also in 1959, Lunar 1 from the U.S.S.R. did a flyby of the Moon, Luna 2 crashed on the Moon, and Lunar 3 took photos. During this time, Apollo was chosen as a name for the U.S. space program. In April 1961, Yuri Gagarin became the first man in space. This led President Kennedy to discuss how to surpass the U.S.S.R. Driven by that challenge, John Glenn made the first orbital flight.

In 1963, the U.S.S.R. sent the first woman into space, Valentina Tereshkova, on the Vostok 6. In 1964, the U.S.S.R. experienced three lunar probe failures, but then successfully launched three cosmonauts, one of whom was the first doctor in space. During that year, the United States did not have any manned flights. However, in 1965, aerospace medicine made several leaps forward, one of which was the first spacewalk by an American, Edward White. Unfortunately, none of this silenced the critics of spaceflight, including from the Academy for the Advancement of Science. In 1966, the United

States proved that docking was possible, but then lost three astronauts to a fire. In 1968, 3 astronauts made a total of 161 orbits, but this also marked the first incidence of in-flight illness. Illness also marked the flight of Apollo 8, which orbited the Moon and then returned. In 1969, Buzz Aldrin and Neil Armstrong successfully landed on the Moon.

Dr. Berry told a story at the end of the lecture of how he received a telegram inviting him to the U.S.S.R. to discuss the space program. He then got a phone call from the State Department ordering him to attend a CIA briefing; he refused to go. Later, he was asked to address the Russian Academy of Science. Dr. Berry also pointed out that 50 years later, NASA is in a similar position as at its founding. Once the Shuttle is decommissioned, we will be dependent on the Russians for flights into space.

## 44th Armstrong Lecture: "Risky Decision Making in Aviation and Mountaineering"— Christopher Wickens

On May 7, 2009, Christopher D. Wickens, Ph.D., delivered the 44th Annual Harry G. Armstrong Lecture during the AsMA 80th Scientific Meeting in Los Angeles. Dr. Wickens is a researcher in human factors in aviation, and his lecture focused on some of the parallels between mountain climbing and aviation. The similarities between mountain climbing and aviation include a high risk of injury or death; gravity and weather as potential enemies; 3D navigational challenges; great rewards in terms of aesthetics, mental challenges, and adventure; and choice of level of risk. Other similarities between mountain climbing and aviation are strong motivations and the importance of team work and leadership. For both, the balance between safety and productivity is mediated by decision and judgment.

The differences between the two are that while both are supported by technology, aviation is cognitive while mountaineering is physiological. There are also few systematic records for climbing fatalities, but a very formal system for aviation. As a result, climbing incidents and hazards are not clear. Dr. Wickens presented a 3-stage decision model to illustrate how decisions are made in both fields. Cue selection and situation assessment lead to a decision. However, this can

be affected by biases, which are generally bad tendencies, and heuristics, which are sometimes acceptable shortcuts when time and attention are limited. Dr. Wickens also covered the "evils" of decision making such as anchoring, confirmation bias, and overconfidence.

One bias is the idea of "sunk cost," the reluctance to walk away from something, causing a sure loss, when risky action might recoup those losses. Another problem is that of framing bias, where a choice between a sure risk and a riskier option will often lead to a choice of the riskier option. The way around these problems is training or "de-biasing," displays with visible evidence, and automation (decision aids).

### MEETINGS CALENDAR 2009

**August 9-14, 2009; IEA 2009—17th World Congress on Ergonomics; Beijing Jihua International Conference and Exhibition Center, Beijing, China.**

Sponsored by the International Ergonomics Association, <http://www.iea2009.org/>.

**September 6-10, 2009; 57th International Congress of Aviation and Space Medicine (ICASM); Zagreb, Croatia.**

For more information, visit [www.wcmmk12009.com/](http://www.wcmmk12009.com/).

**October 4-9, 2009; 38th World Congress on Military Medicine; Kuala Lumpur, Malaysia.**

For more information: <http://www.wcmmk12009.com/>.

**October 14-17, 2009; XXVI International Meeting of Aerospace Medicine; Hotel Fiesta Inn León, León, Guanajuato, Mexico.**

For more information: [www.amma.org.mx](http://www.amma.org.mx) or e-mail [lamezcua@prodigy.net.mx](mailto:lamezcua@prodigy.net.mx).

**October 18-19, 2009; Seventh Annual Meeting of the Society for Human Performance in Extreme Environments; Grand Hyatt, San Antonio, TX.**

For more information, see <http://www.hpee.org/>.

**October 19-21, 2009; SAFE Association 47th Annual Symposium; Town & Country Resort & Convention Center, San Francisco, CA.**

For more information, contact Jeani Benton, 541-895-3012, e-mail [safe@peak.org](mailto:safe@peak.org), or visit [www.safeassociation.com/](http://www.safeassociation.com/).

**October 19-23, 2009; 53rd Annual Meeting of the Human Factors and Ergonomics Society; Grand Hyatt, San Antonio, TX.**

For more information, please visit <http://hfes.org/web/HFESMeetings/09annualmeeting.html>.

**October 19-23, 2009; Orange Flag 2009; ETC, National Aerospace Training & Research Center, Southampton, PA.**

Oct. 19-21 will be for international personnel and Oct. 22-23 for domestic aircrew. For information, please visit [www.etcorangeflag.com/](http://www.etcorangeflag.com/).



**BAUER LECTURE**--Bob Ellis (left) representing the sponsor, Wyle, presents Charles Berry, M.D., M.P.H. (right), with a plaque for the 55th Annual Louis H. Bauer Lecture.



**ARMSTRONG LECTURE**--George K. Anderson (left) representing the sponsor, ETC, presents Chris Wickens, Ph.D., with the plaque for the 44th Annual Harry G. Armstrong Lecture.

# Opening Ceremonies--Los Angeles 2009



**INTERNATIONAL RECEPTION--**(left to right) Drs. Bellenkes, Rayman, and Vermeiren enjoy the reception sponsored by Environmental Tectonics Corp.

**OPENING CEREMONIES**—The introductory music and presentation of the colors were provided by the ROTC of the University of Southern California, under the direction of SSgt. Leo Ruiz, Assistant Marine Officer Instructor. CDR Daniel Hohman, USMC, sang the National Anthem at the start of opening ceremonies of the Aerospace Medical Association's 80th Annual Scientific Meeting, May 4, 2009, at the Westin Bonaventure Hotel, Los Angeles, CA. Also pictured are Drs. Berry and Rayman, Drs. Sides and Nunneley, and members of the Home Office staff and Journal staff.

For more Annual Meeting photos, check out the photo gallery on our website at [www.asma.org](http://www.asma.org) on the Meetings page.

*All photos by Pamela C. Day.*

# Honors Night Reception and Banquet



**PAST PRESIDENT'S PLAQUE**--Dr. Andy Bellenkes (left) accepts the crystal plaque from Dr. Bob Weien.



**PAST PRESIDENT'S PIN**--Susi Bellenkes "pins" her husband, Andy, with the AsMA President's pin.



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**HONORS NIGHT PHOTOS**--1. Wing members Debra Merchant, Gail Weien, Dale Orford, Peggy Trumbo, and Nevona Schroeder; 2. Rick Bachmann and Peach Taylor; 3. Tom Tredici, Mary Cimranci, Mary Foley, and Marian Sides; 4. Al Moloff, Coleen Morissette, Christine Cloutier, and Les Sherman; 5. Larry and Joan Marinelli; 6. Chris Wickens and Susi Bellenkes; 7. Fran Laue and Jim Webb; 8. Julia Dehart, Dick Trumbo, and Roy DeHart; and 9. Brent Haskell and Valerie Nicholson.

*Photos by Pamela C. Day.*

For more photos of the meeting, check out the photo gallery on our website!

# AEROSPACE MEDICAL ASSOCIATION HONORS NIGHT AWARDS LOS ANGELES 2009

All photos by Pamela C. Day

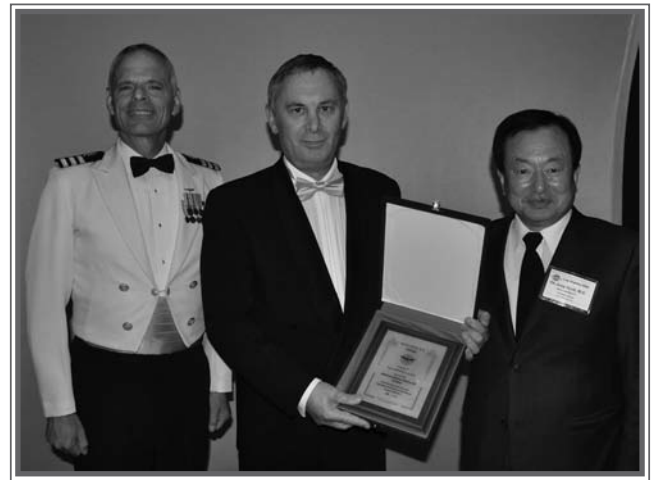
Andrew H. Bellenkes, Ph.D., 2008-09 President of the Aerospace Medical Association, presented awards to 15 outstanding physicians, nurses, and researchers during the Honors Night ceremonies at the 80th Annual Scientific Meeting May 7, 2009, at the Westin Bonaventure Hotel, Los Angeles, CA. Dwight Holland, M.D., Ph.D., the Chair of the Awards Committee, read the citations. The names of the awards' sponsors and representatives, when present, are printed in parentheses. The President's Citations were also presented during the ceremonies.



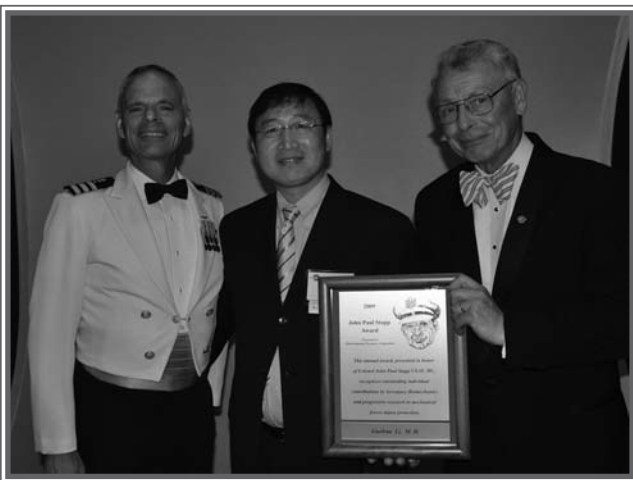
AsMA President Andy Bellenkes congratulates the award winners during Honors Night ceremonies.



LOUIS H. BAUER FOUNDER'S AWARD  
**Terence J. Lyons, M.D., M.P.H.**  
(Clayton Cowl, Mayo Clinic)



WON CHUEL KAY AWARD  
**Tomaz F. Kozelj, M.D.**  
(Dr. Oh Jung Hyub, Aerospace Medical Association of Korea)



JOHN PAUL STAPP AWARD  
**Guohua Li, M.D., Dr.P.H.**  
(George K. Anderson, Environmental Tectonics Corp.)



MARIE MARVINGT AWARD  
**Mary F. Foley, B.S.**  
(Alain Martin St.Laurent, French Aerospace Medical Association)



MARY T. KLINKER AWARD  
**Cathy DiBiase, RN, BSN**  
 (Les Sherman, Impact Instrumentation)



JULIAN E. WARD MEMORIAL AWARD  
**Serena M. Auñón, M.D., M.P.H.**  
 (Col. Margaret Matarese, USAF, MC,  
 Society of USAF Flight Surgeons)



THEODORE C. LYSTER AWARD  
**Kris M. Belland, D.O., M.P.H.**  
 (Lockheed-Martin Space Operations)



HARRY G. MOSELEY AWARD  
**Kathryn G. Hughes, M.D.**  
 (Lockheed Martin Corporation)



ERIC LIJENCRANTZ AWARD  
**Richard T. Jennings, M.D.**  
 (Bionetics Corp.)



BOOTHBY-EDWARDS AWARD  
**Warren Silberman, D.O., M.P.H.**  
 (Sean Daigre, Harvey W. Watt & Company)





**KENT K. GILLINGHAM AWARD**  
**Bob Cheung, Ph.D.**  
 (Wolfgang Lindlbauer, AMST)



**JOHN A. TAMISIEA AWARD**  
**Mary A. Cimrncic, D.D.S.**  
 (Susan Northrup, Civil Aviation Medical Association)



**PRESIDENT'S CITATION--**Mary F. Foley, B.S., received the President's Citation from Dr. Bellenkes. Ms. Foley was cited for her more than 50 years of membership and dedicated service to AsMA, attending 50 consecutive annual meetings.

**PRESIDENT'S CITATION--**Dr. Bellenkes presented a citation to Kjell Lindgren, representing the Volunteers of AsMA, who for the past three meetings and sometimes in between have volunteered their services to help the communities where we meet from Habitat for Humanity to the Red Cross.



**ABSENT AWARDEES---**(top to bottom) Arnold D. Tuttle Award to **David M. C. Powell, FAFOEM**, presented by Bob Ellis of Wyle; Raymond F. Longacre Award to **David F. Dinges, Ph.D.**, sponsored by PricewaterhouseCoopers, accepted by David Schroeder, Ph.D.; Sidney D. Leverett Jr. Environmental Science Award to **Joseph P. Kerwin, M.D.**, presented by George K. Anderson for Environmental Tectonics Corp., accepted by Kjell Lindgren.



**ASMA FELLOWS CLASS OF 2009**—This is the class of 2009 Fellows: Jorge Behaine, Gregg Bendrick, William Bernard, Thomas Bettes, Christopher Borchardt, David Kim Broadwell, Tyson Brunstetter, Mark Campbell, Walter Dalitsch, Charles Doarn, Mark Edwards, Richard Folga, Karen Fox, Rene Germa, Robert Johnson, Jeffrey Jones, Mads Klokker, Phillip Parker, Jeb Pickard, Veronika Prinzo, Jane Risdall, Diane Ritter, James Ross, Michael Russo, and Robert Ryan. Those present at the Honors Night Ceremonies are pictured here with the Chair of the Fellows Group, George K. Anderson (back row, center).

# Minutes of the Aerospace Medical Association Annual Business Meeting

Tuesday, May 5, 2009, Westin Bonaventure Hotel, Los Angeles, CA

**1. Call to Order (Bellenkes):** CDR Bellenkes called the meeting to order at 12:15pm.

## **2. Recognition of Past Presidents**

**3. In Memoriam:** A moment of silence was given in memoriam to members who have passed away during the preceding year.

**4. Report of the President:** CDR Bellenkes thanked all those who supported him during his year as President and gave a brief overview of accomplishments. He announced that Dr. Kim of Wright State University was the recipient of this year's Mohler Endowment. He also reminded attendees that only members of AsMA were eligible to vote.

## **5. Report of the Executive Director (Rayman):**

Mr. President, officers, and members of AsMA, when I gave you my report as required by our Bylaws at last year's Business Meeting in Boston, I said it would be my 17th and final report to you as your Executive Director. I never expected to be standing in front of you at this meeting one year later again delivering this annual report. I am at the podium again because a new Executive Director has not yet been selected. Because my personal situation has changed, I have more flexibility and have told the President that I will stay on board until a new Executive Director is selected at which time I will retire from my position. However, I will say once again, this is my 18th and final annual report to you. Next year I expect to be sitting with you at a table enjoying lunch and listening to the annual report of my successor.

It is my pleasure to report that the previous year has been an active one and I would say there have been several success stories. First, it came to our attention that three airlines had opted to discontinue their Aviation Safety Action Program (ASAP). This is a program by which aircrew and ground personnel can anonymously report safety deficiencies. The reason for discontinuing ASAP was the threat of disciplinary action even though reporting is done anonymously. In any event, the Aviation Safety Committee under Dr. Arnold Angelici crafted the letter asking that the airlines continue ASAP in the interest of flying safety and to take whatever action deemed necessary to prevent disciplinary action. The letter was sent to the airlines, the FAA and, the NTSB. AsMA received thank you letters from these organizations and as it was, the ASAP program was reinstated. Certainly AsMA cannot take all the credit for this, but we were on the winning team.

As has been known for several years, rotary wing air medical transport aircraft have had an unacceptable mishap rate. There are clearly operational reasons for this, but it is suspected that well meaning pilots in their zeal to help sick or injured patients are flying under marginal conditions. The Air Medical Transport Committee under Dr. Nigel Dowdall prepared a letter stating that this aspect of rotary wing helicopter mishaps must be investigated and medical standards determined for air medical transport of the sick and injured. The NTSB contacted AsMA thanking us for our input. Action on this issue has not yet been determined.

The President, CDR Bellenkes, requested that the Home Office form an Ad hoc Working Group to address the issue of medical certification of commercial space pilots flying suborbital missions. The Working Group met and developed a position paper. Furthermore, it was forwarded to the Space Medicine Association and Society of NASA Flight Surgeons for their input. The paper was then finalized and approved by Council. It has been forwarded to NASA, and the space agencies of Russia, Japan, Canada, and Europe (European Space Agency).

Advance registration for the Los Angeles meeting was 961; onsite registration as of 11am today was 336 giving us a total of registrations of 1297. There were 38 exhibit booths. As of December 31, 2008, our net gain for the year was \$46,000. I am confident that the Association will continue to enjoy further success and that we can boldly and aggressively advance our objectives.

**6. Report of AsMA Foundation (Vanderploeg):** Dr. Vanderploeg indicated that the Foundation has about \$34,000 and that Dr. Kim was the Wright State University recipient of the first Mohler Endowment Award. Work on the Fellows Scholarship is in progress.

## **7. GOVERNANCE (Weien)**

### **a. Committees**

*Nominating (Jennings):* Dr. Jennings read the proposed slate as below. A motion to approve the slate of new officers passed: President-elect: Marian Sides; Vice-presidents: Jarnail Singh and James Webb; Treasurer: Glenn Merchant; Secretary: Arleen Saenger; Members-at-Large - 2012: Fanancy Anzalone, Charles DeJohn, James DeVoll, and Hanz Pongratz. In addition, Dan Callan will replace Dr. Webb's remaining 2 years on Council

*Bylaws (Lischak):* In the absence of Dr. Lischak, the Chair, Dr. Webb gave the report. [See August Online News or February issue, p.

157-8 for proposed changes to the Bylaws.] Each proposed change was presented and discussed after which a vote was taken. All proposed changes except that of Article X (Elections) passed by over a 2/3 majority. A motion was made, seconded, and approved to table Article X.

*Finance (Merchant):* Our investments are diversified. We had \$858,000 in Merrill Lynch investments. For calendar year 2008, we were \$46,000 in the black. There was a discussion about having an audit since the last one was done in 2003. A motion carried to have an audit in the coming months. Dr. Merchant will begin the process by sending out RFPs.

## **8. REPRESENTATION AND ADVOCACY (Manning)**

### **a. Committees**

*Resolutions (Gillis):* One resolution on CFIT was as follows:

Therefore be it resolved that the Aerospace Medical Association supports and strongly recommends:

1. the installation of terrain and obstruction warning technology that includes a digital terrain map and obstruction database in all vertical lift vehicles, and
2. compliance with regulatory visibility and cloud clearance requirements for Visual Flight Rules mission, and
3. the use of aircraft fully equipped and certified for flight under instrument flight rules, and
4. recurrent training of crews in advertent Instrument Meteorological Conditions procedures, and
5. provision of satellite relayed weather data link equipment and services to all helicopters operating in areas where this service is available.

A motion was made and carried to approve the Resolution. It now becomes AsMA policy and will be placed on our website and sent to appropriate outside organizations.

*Air Transport Medicine (Dowdall):* There were no action items at this time although the committee is exploring cabin crew medical standards, inflight medical emergencies, and legal reciprocity for physicians flying internationally.

*Communications (Dervay):* Dr. Dervay reported there were no open action items. He gave a brief description of our process for obtaining a contract for a new IT system. A company was chosen and will be presented to the Executive Committee for approval. It was anticipated the contract could be signed by June 1st.

## **9. EDUCATION AND RESEARCH (Anzalone)**

### **a. Committees**

*Aerospace Human Factors (Nesthus):* Three panels were sponsored at this meeting. Planning has now begun for panels for the 2010 meeting in Phoenix.

*Aviation Safety (Angelici):* Several panels were sponsored for this year's meeting. The committee also prepared the ASAP letter which was forwarded to the appropriate airlines and regulatory agencies.

*Education and Training (Boudreau):* AsMA was reaccredited for 4 years by the ACCME. The committee is exploring internet CME and MOC.

*History and Archives (Mohler):* Dr. Jennings was thanked for providing historical movies for our annual scientific meetings. The committee is also exploring the establishment of Reinhartz lectures.

*Science and Technology (Shender):* Five panels were sponsored at this meeting and 89 columns have thus far been published in the Journal under Science and Technology Watch.

## **10. MEMBER SERVICES - (Sides)**

### **a. Committees**

*Awards (Holland):* Awards will be presented at Honors Night.

*Corporate and Sustaining (Sides):* We now have 52 members. Two panels were sponsored at this meeting including a Hyperbaric Medicine Workshop.

*Membership (Silberman/Myers):* Membership is at 2,890 and has leveled off for the past several years. The committee is working on updating the AsMA Slide Show.

## **11. INTERNATIONAL SERVICES (Silberman)**

### **a. Committees**

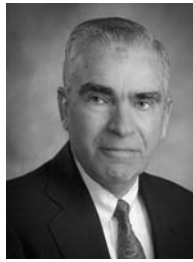
*International Activities (Hardicay):* The committee continues to explore possible further international activity such as joint sessions and meetings with ESAM and AsMA. Panels for next year are now being explored.

## **12. Unfinished and New Business: None**

**13. Adjourn:** The meeting was adjourned at 2:00pm.

Respectfully submitted,  
Russell B. Rayman, MD, Executive Director  
Arleen Saenger, MD, MPH, Secretary

## Executive Director's Column



Rayman

### Anti-Depressants in Civil Aviation

Several years ago, the Aerospace Medical Association (AsMA) published a position paper on the use of selective serotonin reuptake inhibitors (SSRIs) by aviators (Jones DR, Ireland RR. *Aeromedical regulation of aviation using selective serotonin reuptake inhibitors for depressive disorders. Aviat Space Environ Med* 2004; 75:461-70.). This high quality, well referenced position paper suggested that civil aviation pilots need not necessarily be disqualified because of a history of depression and the use of anti-depres-

sants. Drs. Jones and Ireland argued that selected pilots with depression in remission and on low-dose maintenance SSRIs causing no side effects be qualified for flying with the proviso that they would be closely followed with an eye toward possible liberalization of the policy at a later date. A more liberal policy was not unprecedented as several other national regulatory agencies had been qualifying pilots on medications for depression. For example, the Australian regulatory authority had granted waivers for several hundred civil aviation pilots on SSRIs for depression and reported no aircraft accidents or incidents over several years among this cohort attributable to the diagnosis or treatment.

The U.S. Federal Aviation Administration (FAA) began its study of this issue several years ago possibly prompted by the above cited AsMA position paper. Just recently the FAA Office of Aerospace Medicine (OAM) recommended to the Administrator that such pilots with depression in remission and on low doses of maintenance anti-depressants (mainly SSRIs) having no side effects be qualified as well. At the time of this writing, the Rule had not been published. Furthermore,

the newly appointed FAA Administrator, Capt. Randy Babbitt, had just been confirmed by the Senate and has not yet reviewed this recommendation (although it is anticipated that he will be concur). If so, this would be most welcomed by the aviation community and would be a stark departure from prior policies in this regard. Although the Rule has not yet been published, including a list of acceptable anti-depressants, it is anticipated that those individuals who are granted special issuances will be followed very closely over some period of time.

Undoubtedly, this will create an increased workload for the OAM in that medications classified as SSRIs are very widely prescribed. Certainly there are many pilots who are already on these medications or will be in the near future, particularly with the relaxation of the policy.

This is an example of a regulatory agency showing some flexibility in the face of new evidence rather than holding to older policies that have lost their relevance. I applaud the FAA's Office of Aerospace Medicine and I also applaud the authors of that seminal position paper, Drs. Jones and Ireland, who prompted this action.

### Jeff Myers Young Investigators Award

*K. Jeffrey Myers, M.D., Chair*

The Space Medicine Association Jeff Myers Young Investigators Award (SMA JM YIA) is a competition intended for those making their first major efforts into Aerospace Medicine Research. To compete for this award, contestants must be making their first presentation of a scientific paper or poster at an AsMA meeting (excluding cases presented at Grand Rounds as a student resident); they must appear as first author on the paper; and they must prepare and submit a manuscript for judging. Finalists compete in a second phase of competition at the AsMA Meeting involving further evaluation of their presentation and interviews. The potential applicability of the findings to Space Medicine and the degree of involvement of the student in the project are major considerations. The finalists in this years' competition, selected from 153 contestants, are richly talented and diverse (see below).

The winner of the 2009 SMA JM YIA is Nicholas Mohr, M.D. His paper is entitled "Static Loading as a Model for Lunar Cervical Spine Injury." Dr. Mohr graduated with Distinction and Honors from Iowa State University with a B.S. in Mechanical Engineering in 2002. During this time he served as Director of the student Solar Car Project as well as lead for the student Cosmic Ray Observation Project. His interest in space was solidified when he learned about a medical student elective at Johnson Space Center (JSC), applied, and was accepted. Dr. Mohr earned his M.D. from Iowa University College of Medicine in 2006. He enjoyed the research at JSC so much that he returned for a fellowship as a resident from Indiana University in Emergency Medicine in 2007. During that tour he began work on his current project to help characterize the loading

at various points in the Lunar/Mars EVA suits, in an effort to mitigate injury during falls, using design improvements. Dr. Mohr's engineering and medical backgrounds were a near perfect combination for this effort. But like most of our previous intrepid Young Investigator explorers, he discovered that he would need those additional components known as sheer extreme determination and ingenuity which complete the YIA 'trifecta'. Unable to acquire the needed parts to build his experimental apparatus through the standard means, he salvaged his dream project by scrounging around in his garage for spare parts to build it. As long as people like Nicholas keep dreaming and doing, the future will be bright!

Here are some of the other candidates: The first runner up is Jennifer Law, M.D., a 3rd year Emergency Medicine Resident from the University of California at Davis. Jennifer was also an engineer from MIT (Honors) on the Mars Rover projects working at JPL. She too is a product of the JSC electives and fellowships for medical students and residents. Her paper is entitled "Planetary Protection Considerations for the Space Medical Community." The second runner up is Lt. Col. Simeone Izzo, IAF, MC, from the Aviation Medicine Institute of the Italian Air Force. His paper is entitled "Neurocognitive Performance in Aircrew During Treatment with Antidepressant SSRIs or SNRIs." These kinds of data will be very important to us as we begin to colonize the Moon and beyond, expanding our pool of needed explorers and deploying them into these stressful environments. Receiving Honorable Mention is 1st Lt. Hussein Abdullah, M.D., from the Dept. of Aerospace Medicine of the Iraqi Air Force. His paper is entitled "The Most Common Disqualifying Conditions for the New Candidates in the Iraqi Air Force."

Each year working with this award seems to bring something new, and this year's competition did not disappoint. We believe that

1st Lt. Hussein Abdullah is our very first finalist from Iraq. He sends a take home message that we can overcome adversity and achieve our dreams.

I would like to thank the members of the YIA committee (without whom this competition would not be possible!): John Darwood, Lloyd Tripp, Smith Johnston, Dan Woodard, Lu Moreno, Jeff Jones, and Vernon McDonald.

The SMA luncheon brought another joy when former Young Investigator Christian Otto delivered our annual lecture, presenting discoveries from his explorations of Mount Everest and Antarctica. A few hours later, as I sat in the AsMA Awards banquet, I had the pleasure of seeing another former Young Investigator, Jeff Jones, receive his Fellows ribbon. It is truly gratifying to see our former Young Investigators succeed in this way!

And so with another good year flowing by, I must pause and reflect, just for a moment. To think is to be. But if we want to do more than just exist, we must have a dream. To dream is to really live. And if we can dare to dream, we can dare to do.



**SPACE MEDICINE ASSOCIATION JEFF MYERS YOUNG INVESTIGATORS AWARD--** Young Investigators Simeone Izzo, Hussein Abdullah, Jeff Myers (center, chair), Jennifer Law, and Nicholas Mohr.

## SPACE MEDICINE ASSOCIATION NEWS

### Space Medicine Association 2009 Annual Meeting Report

Genie Bopp, 2008-09 SMA President

Thanks to everyone who joined in on the SMA activities in Los Angeles. We had an interesting and enjoyable meeting.

We began the week with the kick off of a new working group for Commercial Human Spaceflight. This committee was formed at the request of the AsMA President and Executive Committee to develop position statements for AsMA. Members of the SMA along with representatives from the Personal Spaceflight Federation and the Commercial Spaceflight Industry participated. Chaired by Jim Vanderploeg and Mark Campbell, this Working Group will hold ongoing discussions regarding the health issues and standards for pilots and passengers on both suborbital and orbital flights.

During the SMA Executive Committee meeting, which is open to all and is always held on Thursday morning of the annual meeting, several new initiatives were discussed:

The Archives committee chaired by Jon Clark reported on the locations where space medicine historic documents may be found. Kjell Lindgren and Jan Stepanek will work on the development of a video archive of Space Medicine in conjunction with the efforts of Stan Mohler, chair of the AsMA History and Archives Committee. Plans for this effort are underway for 2009.

The Executive Committee voted to develop a new scholarship named in honor of Wyle to recognize their support and dedication to the SMA. This scholarship will be given beginning in 2010 to a student in one of the disciplines supporting Space Medicine such as biomedical engineering or epidemiology.

Finances for the Association are in good shape and negotiations are underway to move some of the funds set aside for awards and scholarships to the AsMA Foundation to fund an SMA endowment. SMA will gain the benefits of the AsMA Foundation organizational structure, investment monitoring and strategy to protect and enhance the funds for SMA educational purposes.



**STRUGHOLD AWARD**--James Vanderploeg (left) receives the award from Richard Jennings (right)

New Officers for the Association were elected at the luncheon. The new SMA Executive Committee is:

**President: Patrick McGinnis; President Elect: Jan Stepanek; Secretary: Karen Mathes; Treasurer: Mike Chandler; Past Presidents: Genie Bopp, Mark Campbell, and Jon Clark; History Committee Chair and Custodian of the Gavel: Mark Campbell; and Members-at-Large: Scott Parazyński, J.D. Polk, Mark Edwards, Sam Strauss, Serena Auñón, and Shannan Moynihan.**

Awards were bestowed to very worthy and deserving recipients. **Dr. James Vanderploeg** received the Hubertus Strughold award for his lifelong contributions to the Discipline of Space Medicine. In accepting the award Dr. Vanderploeg spoke of the historic focus of space medicine, which is to understand the effects of spaceflight, develop selection criteria to optimize performance, select very healthy astronauts and cosmonauts, and mitigate every risk possible. He described the future challenge of space medicine, which is to enable people of all ages and with less than perfect health to fly in space.

**Dr. Joseph Kerwin** received the SMA President's award. This meeting was the fiftieth anniversary of the first AsMA meeting attended by Dr. Kerwin, which was also held in Los Angeles. Dr. Kerwin was the first U.S. physician to fly in space and has been a key contributor to the field through his individual contributions and his mentorship of many others at NASA.

**Alejandro (Alex) Garbino** received the SMA scholarship sponsored by Jeffrey Davis. Alex is a M.D./Ph.D. candidate at the Baylor College of Medicine and the current President of the AsMA student organization AMSRO.

**Dr. John Langell** received the SMA Journal award for his article entitled "Pharmacological Agents for the Prevention and Treatment for Toxic Radiation Exposure in Spaceflight," published in the July 2008 issue of the ASEM journal.



**PRESIDENT'S AWARD**--Joseph Kerwin receives the award from Genie Bopp.

nal.

The Jeffrey Myers Young Investigator award was presented to Nicholas M. Mohr for his paper entitled "Static Loading as a Model for Lunar Cervical Spine Injury."

Our luncheon speaker, Dr. Christian Otto, described some of the challenges he experienced in his two winters in Antarctica as the physician for the staff and researchers at the South Pole. He discussed the issues of isolation and the resulting consequences that would also apply to a mission to Mars. It was a very interesting and informative talk that provided data about psychological issues from an isolated environment that is an excellent analog to an extended duration spaceflight.

SMA efforts in 2008-2009 to enhance the contributions of the SMA to AsMA and to the membership have been well executed but perhaps not well communicated. In the past year we have been very active with the AsMA Council, helping to shape AsMA positions on Commercial Spaceflight issues and standards. Our focus on education and publication resulted in additional awards to inspire students and members alike to publish in the journal and to share information. Mark Campbell has been a driving force to capture Space Medicine history and to capture current events for the archives. His work on the development of the scholarship and his continuing work on the web site have been unsurpassed in the recent past. The Archives activity for 2009 will capture historic information so that the work of our predecessors is not lost, but fully integrated into our future progress. The future for the organization is a busy one that will need the participation of all members. Please contact one of the members of the Executive Committee if you want to be more active in the SMA.

I would like to thank the SMA Executive Committee and all of the members of the association for the honor of being the President in 2008-2009. I also want to thank the generous sponsors of the SMA: Wyle Integrated Science and Engineering, Jeffrey Myers, Jeffrey Davis, Mark Campbell, Jon Clark, and Joe Kerwin.

See also *Young Investigator Award*, p. 761.



**SMA DAVIS SCHOLARSHIP**--Alex Garbino (center) receives the award from Genie Bopp (right) as Jeff Davis looks on (left).

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# AEROSPACE NURSING SOCIETY NEWS

## ANS AWARD WINNERS:

### **Krakauer Junior Flight Nurse of the Year Award** **Susan McCormick**

This award, named for Dr. Hans Krakauer, is sponsored by the ANS in his memory and assumption from his original sponsorship. His sponsorship came to fruition after his Air Force experiences and personal involvement with the transportation of a friend. He was very impressed by the compassion and care given by the flight nurses.

The recipient of this year's Krakauer Junior Flight Nurse of the Year award is Capt. Susan McCormick, USAFR, NC. Capt. McCormick is currently deployed again as a flight nurse at Westover Air Reserve Base with the 439th Aeromedical Evacuation Squadron. Her nomination noted her original commitment to the nation as an aeromedical technician who received her commission as a nurse in 2003. In her own words from a recent news article, "I'll fly anywhere on any plan in order to evacuate our men and women who are sick or injured and make sure that they get the care that they need." She lives Hans Krakauer's firm belief that "patients are patients" and practices as the admirable flight nurse who was initially identified at the creation of this award. Capt. McCormick could not be present to accept the award.

### **BG Anne Hoefly Award** **Shawn Westphal**

General Hoefly was the first Chief Nurse of the Air Force to rise to the rank of a general officer. She was a supporter of the ANS until her death in 2003. This award is presented annually to a nurse for outstanding performance in the field of clinical nursing.

The recipient of this year's award is Capt. Shawn Westphal, USAF, NC. Capt. Westphal is stationed at Scott AFB, IL, with the Air Mobility Command Surgeon General's team. He has not only provided expert and compassionate nursing care to the wounded or ill



**IVERSON AWARD**--Cathy DiBiase presents the award to Laura Perry.

himself as a member of CCATT teams, but has saved innumerable dollars and lives with his dedication to the improvement of process and function for CCATT and other transporters. His ability to support the research and development of vital tools has revolutionized patient transport from the current theater of operations.

### **Edward R. Iverson Award** **Laura Perry**

This award is named for New York City Police Detective Edward R. Iverson. Detective Iverson had several episodes where he had to be transported to the hospital by EMS. He and his family were so impressed with the care and compassion of EMS paramedics and EMTs that they initiated and sponsor this award.

The recipient of this year's Iverson award is Technical Sergeant Laura Perry. Sergeant Perry is from the 375th Aeromedical Evacuation Squadron at Scott AFB, IL, and is an Aeromedical Evacuation Technician. She completed initial upgrade training in record

time and subsequently became an instructor for her unit, earning the accolades of senior nurses, including the AMC Stan/Eval OIC. She deployed to Al Udiad, Qatar, flying 14 combat missions and ensuring the successful transport of 213 wounded warriors of Operation Iraqi Freedom. She showcases her unwavering dedication to her peers and the U.S. Air Force by her selection as Warrior of the Week by her commander, serving as president of the squadron's booster club, authoring articles for the base magazine, and working on base beautification projects even in the AOR. This well rounded EMT is a terrific selection for the Iverson award.

### **Join the Aerospace Nursing Society Today!**

Dues are just \$10 (\$5 allied health professionals). For further information, contact: Diane Fletcher, ANS Treasurer  
 7401 Salem Dr.  
 Columbus, MS 39705  
 diane.fletcher@columbus.af.mil or Fletcher4@charter.net

### **ANS Garrecht Award**

The Brig. Gen. Claire Garrecht Award honors an ANS member for the best scientific paper presented during the Annual Scientific Meeting of the Aerospace Medical Association. This award, sponsored by Educational Enterprises, Inc., consists of a plaque and honorarium.

*Criteria:* Membership in the AsMA and ANS. Abstract must be submitted and accepted for presentation.

Contact Charlie Tupper, the Chairperson, Aerospace Nursing Society Awards Committee, for details.



**HOEFLY AWARD**--Cathy Dibiase (left) present the award to Shawn Westphal (right).



**ANS OFFICERS 2009-10**-- (left to right) Treasurer: Lt.Col. Eileen Hadbavny, USAF(Ret); Secretary: Chris Cloutier, LCdr.(Ret), CF; Vice Pres./Pres. Elect: Lt.Col. Eleanor (Carolyn) Jarrett, USAFR, NC; President: Lt.Col. Nora Taylor, USAFR, NC.

# LSBEB Award Winners for 2009

## The A. Howard Hasbrook Award Gregory B. Ostrander

This award, presented in conjunction with the AsMA Annual Scientific Meeting since 1990, recognizes an individual who has provided noteworthy data or design with respect to safety, survivability, or crashworthiness relevant to aircraft or space vehicles. The 2009 winner is LCDR Gregory B. Ostrander, MSC, USN. LCDR Ostrander has contributed significant data and analysis in support of the U.S. Navy's accident reduction goals, specifically as related to aviation safety and aerospace preventive medicine. This includes:

- A study of hypoxia incidents in naval aviation over the past 20 yr, documenting and analyzing frequency and distribution of events by platform and specific causal factors. He developed the first metric to analyze hypoxia frequency rate in the F/A-18 aircraft, which ultimately gave scientific credibility to an anecdotally noted upward trend in hypoxia events in this aircraft, and led to several working groups which helped determine the various causal factors that were contributory.
- His data analysis showed human error to be the number one causal factor, contrary to what was assumed to be a maintenance and material problem. His efforts led to improved training, a complete revision of the F/A-18 emergency oxygen procedure, and assisted in obtaining Naval Air Systems Command funding for improved hypoxia awareness training for all tactical jet aviators.
- Assisted with human error analysis at the Naval Safety Center using the Human Factors Analysis and Classification System (HFACS), leading to improved granularity in physiological events causal factor analysis and better recommendations for training.
- Assisted and co-authored a fleet-wide study assessing neck pain in naval aviation, which demonstrated that neck pain continues to be a problem for aircrew across all platforms.
- Drafted and obtained approval for six changes to the Naval Aviation Survival Training Program curriculum based on mishap and hazard data analyzed and compared to current training goals. Of specific note was a change to Underwater Egress (Dunker) training to reconfigure the device interior to match the cabin of the E-2C Hawkeye aircraft. His approved change will allow more realistic egress training for E-2 and C-2 aircrews.



**HASBROOK AWARD**--sponsored by LSBEB and presented by Bill Ecoline; LCDR Deborah White accepting for LCDR Ostrander.

Currently LCDR Ostrander is assigned as the Assistant Director for the Aviation Survival Training Center in Norfolk, VA. He is responsible for overseeing aviation physiology and water survival training to fleet personnel, training more than 5,000 students annually.

LCDR Greg Ostrander's superior expertise in hypoxia related mishaps, coupled with his diligent and unrelenting efforts, provided unprecedented support to the Naval Aviation community by focusing attention toward improving aviation readiness through increased safety awareness and safety program compliance. His exceptional insight and unsurpassed professional knowledge directly contributed to some of the safest years in the history of naval aviation.

## Professional Excellence Award Larry P. Krock

This award, presented in conjunction with the AsMA Annual Scientific Meeting since 1965, recognizes an individual who has produced outstanding research accomplishments or technical and/or research management achievements important to life sciences and/or biomedical engineering of a number of years. The 2009 winner is Dr. Larry P. Krock.

Larry Krock is a long-time LSBEB member and a fellow of AsMA. He is currently the Chief Scientist for the United States Air Force School of Aerospace Medicine. As Chief Scientist, Dr. Krock oversees an operationally responsive \$5.5M biomedical research program and is acknowledged as the principal agent for reinvigorating operational medical research back into the U. S. Air Force Medical Service. As BRAC-Director, he is ensuring accountability and transfer of all the School's half-billion dollar program and assets to the new \$300M Human Performance Wing's facility now under construction at Wright Patterson AFB, OH.

Dr. Krock received a B.A. in Kinesiology and a MA in Applied Physiology from California State University, Northridge, in 1972 and 1974. Following an 8-yr appointment to the faculty of that University, he traveled to Texas to earn a Ph.D. in Physiology from Texas A & M University, College Station, TX. He spent a year and a half as a Research Associate in the Department of Medicine, Baylor College of Medicine, Houston, TX, and arrived at the School of Aerospace Medicine, Brooks AFB, TX, in 1985.

In his first assignment he investigated the metabolic requirements of Explosive Ordnance Disposal render-safe procedures. In 1987 he transferred to the sustained acceleration function and conducted many original studies exploring cardiovascular and musculoskeletal responses to sustained high-G forces. His innovative work with rapid onset lower body negative pressure was key in understanding the fluid dynamics during +Gz and LBNP, and included collaborations with NASA in mitigating orthostatic intolerance of microgravity. His important exploratory work in ground-based anti-G straining-maneuver training methods clarified lower extremity metabolic requirements during the AGSM, and redefined USAF high-G exposure centrifuge training.



**PROFESSIONAL EXCELLENCE AWARD**--sponsored by Eagle Applied Sciences and presented by Guy Banta (left) to Larry P. Krock (right).

In 1994 Dr. Krock was selected to found and direct a new research mission within the Davis Hyperbaric Medicine Laboratory, Armstrong Laboratory. His most significant achievement was founding and guiding the development of a world-class in vitro immunohistochemical laboratory—the Department of Defense's lead laboratory for hyperbaric medicine research. Vanguard studies conducted in his laboratory formed the foundation of understanding of the influence of increased partial pressure of oxygen on cell structure and function. These studies extended the use of hyperbaric oxygen to aid in the prevention of, and expedited recovery from, a wider diversity of injuries sustained during combat and mass casualty scenarios in both military and civilian sectors. Dr. Krock was responsible for co-developing, with the U.S. Navy, the deployable hyperbaric chamber system (Hyperlite) which became the backbone of a new strategic plan to move hyperbaric medicine into the forward theater of operations.

Dr. Krock has a distinguished international reputation as a teacher, mentor, and has served on several national scientific review panels. He is an Academician of the International Academy of Aviation and Space Medicine and is a member of several physiological and engineering organizations. He has published more than 100 refereed manuscripts and abstracts, and has received multiple professional awards.

## Research and Development Innovation Award

This award, presented in conjunction with the AsMA Annual Scientific Meeting, is given to an individual who has demonstrated innovative life sciences and/or biomedical engineering research as related to the design or development of aerospace medical equipment or systems.

Mr. Glenn Paskoff is a nationally recognized expert in escape and airframe crashworthy systems research and engineering. As the leading Biomechanical Engineer at the Naval Air Warfare Center - Aircraft Division, Mr. Paskoff has led research and program engineering support efforts to address broad safety and protection issues for military aircrew and their susceptibility to injury, fatigue, acceleration forces, and extreme environments. He is

See LSBEB, p. 765.

LSBEB, from p. 764.



**R&D INNOVATION**--sponsored by the David Clark Company, Inc., and presented by Dan Berry; Barry S. Shender accepting for Glenn R. Paskoff.

unique in his knowledge and his ability to move easily between laboratory-based Science and Technology (S&T) work and the operational environment. He has served as Co-Principal Investigator on the Office of Naval Research funded Injury Prevention Future Naval Capabilities. This multi-year, multi-disciplinary project is focused on the prevention of cervical injuries in high acceleration environments. He has led research into determining human limitations for head-borne weight in rotary-wing crash scenarios. He provides direct engineering support to the Joint Helmet Mounted Cueing System, and has worked with the Special Operations Command on small-boat injury prevention. He is the lead Test Engineer for the Modular Aircrew Common Helmet program, which is developing a common aircrew helmet that can be used by all naval aviation platforms, and was the deputy program manager for the Advanced Integrated Life Support System which developed a single integrated engineering solution for aircrew personnel protection.

One of the most chaotic and dangerous periods of an aircraft ejection sequence is the parachute opening phase. At this point the body can assume almost any orientation and once separated from the ejection seat, is without spinal support. Historically, this phase has been very difficult to study given the variability of the response. Mr. Paskoff has developed a unique test fixture and methodology to emulate parachute opening shock in a controlled lab environment using the NAWCAD horizontal accelerator. With the POSE, it is now possible to measure differences in responses



**McFARLAND STUDENT AWARD**--sponsored by the Gentex Corporation and presented by John Winship; Bill Ecroline accepting for Savitha Shekar, M.B.B.S.

relative to orientation, size, and pulse magnitude in order to parametrically evaluate advanced and legacy helmets and flight equipment during ejection.

Mr. Paskoff is actively involved in his professional community. He has just submitted his third safety product patent and has over 30 technical and refereed journal publications. He was co-author of the inaugural 2008 'Best Technical Paper Award' by the SAFE Association Science and Technology Committee for his work developing validated models for human biodynamics during parachute opening/ejections. He is active in numerous professional organizations, TTCP and NATO-RTO panels, and technology program and engineering acquisition support.

Mr. Paskoff's work has directly enhanced the safety of Naval aircrew today, and will continue to ensure the safe design of future systems. His exceptional insight and unsurpassed professional knowledge directly contributed to some of the safest years in the history of naval aviation.

### Ross McFarland Student Award Savitha Shekar

This award, presented in conjunction with the AsMA Annual Scientific Meeting since 1975, is given to the author of the best student paper accepted by the AsMA Scientific Program Committee that reports on a significant achievement in biomedical engineering. There are no nominations for this award. The best abstract from those submitted by students each year is selected based on scientific merit, clarity of presentation, application of findings, and scope of interest in outcome by a committee. The 2009 winner is Savitha Shekar M.B.B.S., for the abstract titled "Effect of Hypoxia on Modulations of Pressor Responses to Isometric Handgrip to Low Atmospheric Pressure" (Aviat Space Environ Med 2009; 80:283 [#328]). Her study examined whether the attenuation of pressor responses to isometric muscle tensing, an important constituent of AGSM, is modulated with/without hypoxia in a comparable pressure and thermal environment. Dr. Shekar is with the Institute of Aerospace Medicine, Bangalore, Karnataka, India.

### AsHFA Stanley N. Roscoe Award Melanie LeGoullon

The Aerospace Human Factors Association (AsHFA) 2009 Stanley N. Roscoe Award, given for the best Doctoral Dissertation written in a research area related to Aerospace Human Factors, was presented to Melanie LeGoullon.

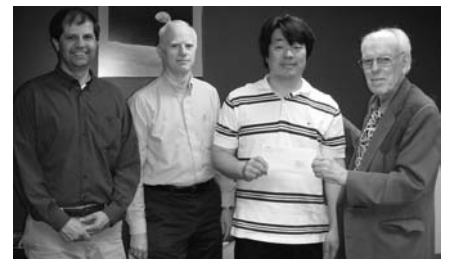


Dr. Melanie LeGoullon is a Human Factors Scientist at Perceptronics Solutions' Washington, D.C. office. She has extensive experience conducting human factors and cognitive research within the aviation industry. Melanie's

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. Dr. LeGoullon 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., Melanie was also a fellow in NASA's Graduate Student Researchers Program.



**2009 RAM BOWL**--The three teams of RAMS were set up with Al Parmet as the MC: the Air Force (top), Army/Navy (center), and UTMB (above). The UTMB team defeated both the Army/Navy and Air Force teams to capture the traveling Louis Bauer Trophy.



**STANLEY R. MOHLER SCHOLARSHIP PRESENTED**--The first recipient of the Stanley R. Mohler Foundation scholarship is Dr. Chan Kim, a student at Wright State University from South Korea. Dr. Kim was unable to attend the Awards Ceremony in Los Angeles, so his award was officially presented at WSU by Dr. Mohler himself. Pictured, left to right, are Drs. Farhad Sahiar, Robin Dodge, Chan Kim, and Stanley Mohler.

# WING NEWS & NOTES

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## Hurray for Hollywood

By Dale Orford, Photos by Dale Orford

What a fantastic time we all had in Los Angeles at our annual Wing meeting! An award winning performance was turned in by President Peggy Trumbo and her organizing committee to provide us with a delightful, fun-filled week. Our meeting kicked off atop the 35th floor of the Westin Hotel with our salute to tinsel town, where we welcomed several new members and greeted friends from around the world. Everyone enjoyed the lovely buffet and artistic decorations designed by Issy Jennings.

Our Tuesday tour took us on a whirlwind tour of Los Angeles. Our first stop was at the historic Grauman's Chinese Theatre, the most sought-after venue for studio premieres, with its numerous cement hand and foot prints immortalizing Hollywood's brightest stars. We then headed across the courtyard to the new Kodak Theatre (*Photo 1*), home to the Academy Awards ceremony, where we enjoyed a private backstage tour led by Mr. Sergio Ruezga, the Director of Events for the Kodak, and Dr. Dean Gean. Dean is a Past President of the Western Occupational Medical Assn. and the current Regional Medical Director of Liberty Mutual Insurance in Glendale, CA, but his claim to Hollywood fame is as the Physician to the Oscars. He had many interesting stories to share, not only about various Hollywood personalities, but also of an occupational medical nature. He delighted us with his tale of sewing on Clint Eastwood's tuxedo button with sutures, asking Heidi Klum if her husband did any voice over work (he did not recognize her husband, the singer, Seal), and meeting Paul McCartney as he relaxed backstage giving an impromptu performance. Sergio showed us an authentic Oscar and



then took us onto the stage where just a few weeks ago, Hugh Jackman and Beyonce performed their numbers for the Oscars. What a thrill to look out and see where so many famous stars had waited to hear if it would be their turn to make an acceptance speech!

Upon leaving the Kodak, we re-boarded our bus, and headed out to see some of the famous and glamorous sights of the city. We had a quick look at Rodeo Drive, the most expensive shopping area in L.A., before stopping to snap a few photos of the La Brea Tar Pits, which proved to be the last stop for prehistoric visitors to this area (*Photo 2*). After a quick lunch at the Farmers' Market (*Photo 3; Mariette Jones and Marilyn Brath at the Farmers' Market*), we continued our tour, passing Paramount Studios and the historic areas of Los Angeles before returning to our hotel.

Our annual Business Meeting was held on Wednesday at the L.A. Athletic Club, a lovely art nouveau heritage building a short walk from our hotel. The luncheon was delicious and we all raved over the dessert – a chocolate heart shaped shell filled with ice cream. We had a special drawing for a freshwater pearl necklace with matching earrings generously donated by Sharon Meader of Seattle, and won by Sue Hudson of England (*Photo 4*).

On Thursday, our group headed out for a visit to the famed Getty Center (*Photos 5 and*



6), and what a magnificent tour it was! The Getty sits amidst 750 acres in the foothills of the Santa Monica Mountains overlooking the city on one side and the ocean on the other. Designed by architect Richard Meier, the buildings bridge architectural modernism with classic material of white limestone to express the Getty's roots in the past and belief in the future. The site with its majestic buildings, lovely gardens, and outdoor sculptures rivaled the art inside. The collections included art ranging from the old masters such as Peter Paul Rubens and Rembrandt to American and European photographs from the 19th century to the present. This was truly a tour we will not soon forget.

Nor will we soon forget our visit to California and the very welcoming and interesting city of Los Angeles.





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**Aerospace Medical Association**  
**320 S. Henry Street**  
**Alexandria, VA 22314-3579**

## NEWS OF CORPORATE MEMBERS

### Exhibitors at AsMA's 80th Annual Scientific Meeting in Los Angeles, CA

AsMA would like to thank all those who exhibited at our annual meeting. Pictured on this page are some of our loyal corporate members who exhibited during the meeting. All photos are by Pamela Day.



### Spectrum Aeromed Newest Corporate Member

Spectrum Aeromed, a leading manufacturer of air ambulance equipment, recently became the newest Corporate Member of the Aerospace Medical Association (AsMA). Spectrum Aeromed has worldwide recognition for designing medical interiors for air ambulances for hospital programs, military branches worldwide, multi-mission charters, private operators, and custom VIP emergency medical interiors for executive aircraft and heads of state. They work closely with air medical and transport crews to design solutions for providing superior medical care within the confines of an aircraft.

Located at Hector International Airport in Fargo, ND, Spectrum Aeromed offers life support systems for all types of aircraft. They were originally founded in 1991 in Wheaton, MN, and were acquired by Dean Atchinson in 2007. They relocated to Hector International Airport in 2008 and have 16 employees, of whom 5 are certified pilots. They hold 50+ STCs for more than 260 aircraft.

Earlier this year Spectrum Aeromed partnered with Project Phoenix, a Dubai-based company that converts airliners for VIP and executive use, to develop a dedicated air ambulance program. Spectrum will be providing Project Phoenix with custom-designed interiors and medical equipment. They also provided a delegate to an 8-day trade mission to South Africa in early May.

—For more information on this company, please visit their website at [www.spectrum-aeromed.com](http://www.spectrum-aeromed.com).



### ETC Announces Orange Flag 2009

ETC officially announced Orange Flag 2009, to be held in their National Aerospace Training and Research (NASTAR) Center. This event will host all international and domestic fast jet military pilots and officials to experience the next generation of tactical flight simulation. The event dates will be October 19 through 21 for international personnel and October 22 and 23 for domestic aircrew.

— For the most current information, please see <http://www.etcorangeflag.com/>.

### Axiom Announces New DRX9000

Axiom Worldwide recently announced the release of its new "DRX9000™ True Non-Surgical Spinal Decompression System." The new DRX9000 is the result of feedback and survey results gathered from existing U.S. and international customers.

— For more information, please visit the press release at: <https://axiomworldwide.com/PressReleaseDetails.aspx?id=71>.

### Wyle Develops 2nd Generation Sound Generator

An improved second-generation sound source used to simulate the intense noise generated by space rockets during launch has been developed by Wyle engineers. The Wyle Acoustic Source (WAS) 5000 is a high frequency, high intensity sound source complementing the existing low-frequency system. Both are used to ensure that items can survive the heavy vibration caused by rocket motors.

— Adapted from a press release at <http://www.wylelabs.com/news/2009/06-12.html>.

## NEWS OF MEMBERS

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**Col. Ki-Young Chung, ROKAF**, Daejeon, South Korea, was previously Commander, ROKAF Aerospace Medical Center, CheongWon. He has been promoted to Commander of the ROKAF School of Military Medicine, Armed Forced Medical Command, South Korea. Col. Chung is a Fellow of AsMA.

**Tracy Smart, BM BS, MPH, MA**, of the Royal Australian Air Force, was promoted to Air Commodore in February 2009 and posted to the dual positions of Director General of Air Force Health Services and Director General Corporate Health Management in the Australian Defence Force's Joint Health Command, Canberra.

### In Memoriam John Ernsting

by Professor Michael Bagshaw

Professor John Ernsting, CB, OBE, BSc, MBBS, PhD, FRCP, FFOM, FRAeS, died suddenly on 2 June 2009 in Frimley, UK, after a short illness.



Characteristically he had worked in his office at King's College London on the previous day, having just returned from delivering one of his inspiring lectures at the Otago Residential School in

Stirling Castle Scotland. Prior to this he had participated in the AsMA meeting in Los Angeles.

John Ernsting (known universally and respectfully as 'JE'), the son of a London dentist, graduated in physiology (1949) and medicine (1952) from Guy's Hospital Medical School with honors, taking the prizes for obstetrics and surgery. He then joined the Royal Air Force Medical Branch in 1954. Apart from a sabbatical year at USAF School of Aerospace Medicine (1979-1980), he spent the whole of his military career at the Royal Air Force Institute of Aviation Medicine, Farnborough, UK, retiring as Commandant with the 2-star rank of Air Vice-Marshal in 1993. He was the Royal Air Force Consultant Adviser in Aviation Medicine from 1971 to 1990, and served as the Dean of Air Force Medicine and then as Senior Consultant (RAF) from 1990 to 1993. On his retirement from the Royal Air Force, Professor Ernsting was appointed Honorary Civil Consultant in Aviation Medicine to the RAF.

Professor Ernsting's wide range of basic and applied research in altitude physiology and protection established the modern physiological requirements for aircrew breathing systems. His involvement in the design and evaluation of integrated protection systems for military aircrew included research into the respiratory and cardiovascular effects of exposure to acceleration, whole body vibration, and immersion in water. Much of the current aircrew protective and life-support equipment

has evolved directly from the pioneering development work performed by JE and the teams he led on both sides of the Atlantic. On the civilian side, he was closely involved with the research and development of the crew life-support systems for the Concorde supersonic transport aircraft.

Professor Ernsting was convinced of the importance of extending the test environment for aircrew equipment from the laboratory to the aviation environment, and the RAF Institute of Aviation Medicine was unique in having dedicated and instrumented fast jet aircraft flown by medical officer pilots. Although it has been said apocryphally that JE believed an aircraft was a device for taking an oxygen system to altitude for experimental purposes, he was a great supporter of the IAM Flight Research Dept., which he directed for 15 years.

Whilst still serving in the RAF, John Ernsting was appointed Visiting Professor in Applied Physiology at King's College London in 1987. He was Director of the M.Sc. course in Human and Applied Physiology and on his retirement from the Royal Air Force began teaching and conducting research full-time at King's College London. He established a human respiratory research laboratory and in 1998 was appointed Head of the Human Physiology and Aerospace Medicine Group in the School of Biomedical Sciences based on the campus of Guy's Hospital, his medical Alma Mater. He was instrumental in establishing the course for the Diploma in Aviation Medicine at King's College London following the closure of the RAF Institute and the School of Aviation Medicine at Farnborough. He was also Director of the courses for the M.Sc. in Aviation Medicine and the M.Sc. in Aeromedical Research at King's College London, and established a popular intercalated B.Sc. course in aerospace physiology for undergraduate medical students.

As a teacher, JE gained the respect and affection of generations of students. Despite his idiosyncratic teaching style (involving the use of ancient overhead projection acetates and much jingling of keys and loose change in his pocket), he ensured that his students understood the complexities of human physiology and its application to the aviation environment. He maintained a personal interest in the lives and careers of his students and colleagues throughout the world and it gave him particular pleasure when the John Ernsting Laboratory was named for him in Brazil in 2008.

Another highly-acclaimed eponymous honour was the naming from 2001 of the John Ernsting Panel at the International Congress of Aviation and Space Medicine. He served as President of the International Academy of Aviation and Space Medicine from 1995 to 1997. He became a member of the Aerospace Medical Association in 1960 and was elected a Fellow in 1972; he served as a Vice-President on two occasions. He was elected to Fellowship of the Royal Aeronautical Society in 1978 and was President of the UK Chapter of SAFE (Europe) from 1984 to 1994. Professor Ernsting's name and influence will also live on

in the standard textbook, Ernsting's Aviation Medicine, now in its 4<sup>th</sup> edition and internationally recognised as the authoritative text.

His honors and awards included Officer of the Most Excellent Order of the British Empire (OBE, 1959) and Companion of the Most Honourable Order of the Bath (CB, 1992). The Aerospace Medical Association honored him with the Eric Liljencrantz Award (1974), the Harry G. Moseley Award (1992), and the Louis H. Bauer Founder's Award (2002). He also received the Scientific Achievement Award of the Advisory Group for Aeronautical Research and Development of the North Atlantic Treaty Organisation in 1990 and the André Allard Medal of the International Academy of Aviation and Space Medicine in 1999.

### New Members

Abrams, Holly L., M.E., M.D., Boise, ID  
Al-Shebli, Dr. Hussien Muhaqmm, Amman, Jordan  
Apolinar, Yasminda R., M.D., S. Laguna, Philippines  
Beekmann, Roland T. A., Maj., RNLAf, M.D., Lochem, Netherlands  
Bergoo, Willie, M.D., Stockholm, Sweden  
Binnewies, Joerg, M.D., Rastede, Germany  
Butler, Jenny L., San Antonio, TX  
Christmas, William A., Lt.Col., USAF, MC, Richmond, KY  
Cleland, Jeffrey M., San Antonio, TX  
Crew, Rhonda L., RN, B.Sc.N., CD, Astra, ON, Canada  
DeGraaf, Ms. M., Harderwyk, Netherlands  
Dutko, Barbara, D.O., J.D., Fawn Lawn, NJ  
Ellis, Robert M., MBA, B.S., Houston, TX  
Friedman, Jack, M.D., Tobuca Lake, CA  
Harrell, Mason, LT, MC, USN, San Diego, CA  
Hawkesworth, Greg J., D.O., Seneca, SC  
Hursh, Steven R., Ph.D., Baltimore, MD  
Irmer, Thomas, M.D., Schwarzach, Germany  
Ledderhos, Carla, M.D., Ph.D., Fuerstenfeldbruck, Germany  
Lee, Woo Young, M.D., Seoul, Republic of Korea  
McArthur, Christopher J., CDR, MC, USN, Pensacola, FL  
Menkes, Daniel L., Col., USAF, MC, West Simsbury, CT  
Mohebbi, Mohammad R., M.D., Coralville, IA  
Nugent, Nathan Zene, Cold Lake, MB, Canada  
Powell, Eric D., Capt., USAF, BSC, Universal City, TX  
Reese, Charles A., M.D., Ph.D., Pensacola, FL  
Robins, Arna K., RN, Las Vegas, NV  
Rudd, Rahel R., B.S., M.S., Beaver Creek, OH  
Savran, Stephen V., M.D., Las Vegas, NV  
Self, David A., Ph.D., Tuttle, OK  
Sloan, Lloyd W., CDR, MC, USN, Cantonment, FL  
Still, David L., Ph.D., Pensacola, FL  
Sweet, Barbara T., Ph.D., Moffett Field, CA  
Thomas, Dana R., MAS, Colorado Springs, CO  
Tongelidis, Vasileios, M.D., Souda, Chania-Crete, Greece  
VanDenOord, Marieke, M.Sc., GR Hank, Netherlands

Westphal, Shaun S., Capt., USAF, NC, Scott AFB, IL  
White, Mark T., 1Lt., USAF, BSC, San Antonio, TX

## Society of USAF Flight Surgeons Awards

### Howard R. Unger Award

The Howard R. Unger Award was established by the Society of USAF Flight Surgeons' Board of Governors in 198, and seeks to encourage and reward publication of original work by USAF flight surgeons. In recognition for the excellent article entitled "Efficacy of Echocardiographic Screening in Pilot Applicants" (ASEM 2008; 79:514-7), this year's winner is **Maj. James R. Strader** from USAF-SAM.

### Operational Flight Surgeon Safety Award

Operational Flight Surgeon Safety Award award, approved by the Society's Board of Governors in May 2002, recognizes outstanding safety achievements by operational flight surgeons. This year's recipient is **Capt. Ryan N. Harris** from Air Combat Command.

### Malcolm C. Grow Award for USAF Flight Surgeon of the Year

The Malcolm C. Grow Award is presented annually to the most outstanding flight surgeon in the United States Air Force selected from among all of the Major Commands. To be thought of so highly by one's flying squadron and base leadership as to be submitted is in itself quite an honor and to be selected by one's command is truly prestigious.

The 2008 Malcolm C. Grow Award winner is from Air Combat Command:

**Capt. George R. Gibson III.** This exemplary young officer has the uncanny ability to meet the clinical and operational demands every day without missing a beat. He has achieved something that the flying squadron commander clearly defined as crucial to the success of the squadron—the complete confidence and trust of the family members for all health care matters. He has displayed significant leadership capability as the disaster team chief, Public Health Emergency Officer, Clinical Laboratory Director, and IDMT preceptor. Capt. Gibson then stepped up to the task as the leader of Aerospace Medicine for 10 months while the ADOS/CC was deployed and kept the squadron on track and running well. He is battle-tested and combat-proven, volunteering for an Afghanistan deployment while on leave and then enroute 4 days later. There he continued to display his leadership ability by authoring strategic and disaster plans while setting records for clinic productivity. This young flight surgeon flew 30 combat missions, responded to a Navy class A mishap and then volunteered for an in-place deployment extension in order to keep the mission going. His flying squadron commander summarized with "this flight surgeon has aced every trial with peerless skill and leadership."

### Olson-Wegner Awards

The Olson-Wegner Award traditionally has been presented annually to the Air Force's outstanding aeromedical technician of the

year. In January of 1999, the Society's Board of Governors unanimously agreed to expand the award to individuals in three categories: Airman, NCO, and Senior NCO. Our aeromedical technicians are critical to the success of the Air Force Aerospace Medicine mission.

### Olson-Wegner Award Aeromedical Technician of the Year--Airman

This year's recipient of the Olson-Wegner Award in the Airman category is from the 5th Medical Operations Squadron, Minot AFB, ND, Air Combat Command: **Airman First Class Erika R. Jenkins.** Over the past year she was extremely busy keeping the 5th Bomb Wing at Minot AFB flying and on-track with PRP. Her direct efforts helped gain an impressive 4 Staff assistance visit "Excellents" and 2 NSI "Outstandings." She expertly managed PHA scheduling for over 5000 physicals and helped drive Minot's IMR rate to the best in ACC. She held 4 additional NCO duties during a 40% manning shortage and continued to improve productivity in her primary job. Not resting on her achievements, she finished her CDCs early, garnered the top 4N score in the clinic, and completed 41 hours toward her CCAF degree.

### Olson-Wegner Award Aeromedical Technician of the Year--NCO

This year's recipient of the Olson-Wegner Award in the Non-Commissioned Officer category is from the 1st Aerospace Medicine Squadron, Langley AFB, VA, Air Combat Command: **TSgt Cornelius M. Young.** He has excelled both at home and while deployed. He has been busy supporting one of his MAJCOM's busiest flight medicine clinics with meticulous attention to detail, managing over 400 active waivers. He led an AF5021 initiative that streamlined the PHA process and reduced patient waiting time in his clinic by 50%. While deployed to Iraq, he helped deliver needed medical care to over 12,000 local nationals and helped teach a preparatory Iraqi nurse course which graduated 150 students. He further participated as a security detail convoy medic on numerous off base missions.

**Olson-Wegner Award Aeromedical Technician of the Year--SNCO**

This year's recipient of the Olson-Wegner Award in the Senior Non-Commissioned Officer category is from the 48th Aerospace Medicine Squadron, RAF Lakenheath, United Kingdom, United States Air Forces Europe: **Master Sergeant Suzanne L. Winovich.** She has demonstrated superb aeromedical leadership, leading USAFE's largest flight medicine office with 3 wings and 9 geographically separated units. Her shop garnered an impressive "outstanding" during a recent HSI with two programs being identified as benchmark programs in the Air Force. She further piloted three new program databases despite a critical manning shortage. She was also hand-picked as the 48 FW representative to the AF DLC conference in Reno and served as the subject matter expert on the implementation of the ALC fast track program. She accomplished all this while leading numerous conferences, exercises, classes, distinguished visitor tours, and other activities too numerous to list.

### Olson-Wegner Award Aeromedical Technician of the Year--SNCO

This year's recipient of the Olson-Wegner Award in the Senior Non-Commissioned Officer category is from the 48th Aerospace Medicine Squadron, RAF Lakenheath, United Kingdom, United States Air Forces Europe: **Master Sergeant Suzanne L. Winovich.** She has demonstrated superb aeromedical leadership, leading USAFE's largest flight medicine office with 3 wings and 9 geographically separated units. Her shop garnered an impressive "outstanding" during a recent HSI with two programs being identified as benchmark programs in the Air Force. She further piloted three new program databases despite a critical manning shortage. She was also hand-picked as the 48 FW representative to the AF DLC conference in Reno and served as the subject matter expert on the implementation of the ALC fast track program. She accomplished all this while leading numerous conferences, exercises, classes, distinguished visitor tours, and other activities too numerous to list.

### George E. Schafer Award

The George E. Schafer Award is presented annually to an individual who has made significant long-term contributions to the Air Force and to the field of Aerospace Medicine.

This year's winner, Dr. Quay Snyder, has devoted an entire career to promoting and improving the Air Force Medical Service and the field of Aerospace Medicine. His efforts in these areas have positively impacted every person at the SUSAFFS awards ceremony.

Dr. Snyder began his illustrious career in Aerospace Medicine as a Distinguished Graduate of the United States Air Force Academy and Duke University School of Medicine. He is Board Certified in Aerospace Medicine, Occupational Medicine, and Family Practice. He was the Command Flight Surgeon of the Year on three separate occasions. He has served with the Colorado Air National Guard and as the Colorado State Air Surgeon. He also served as the senior flight surgeon at the USAF Reserve Personnel Center during Operations Noble Eagle and Enduring Freedom. Dr. Snyder retired from the USAF Reserve in 2002. But he did not stop there. He is an assistant professor at the University of Colorado Health Science Center in Preventive Medicine and at the University of Colorado Medical School in Occupational Medicine. He is also an affiliate faculty member at the USAF School of Aerospace Medicine. He spends his spare time on the Editorial Board and as a clinical reviewer for our *Aviation, Space, and Environmental Medicine* journal.

He has written over 40 articles and scientific papers on aviation related medical issues. One of those articles earned him the Unger Award for his outstanding paper on visual status and UPT attrition.

He is also an accomplished pilot. He has over 2400 hours of flight time in 48 different types of aircraft. He was the 94th Flying Training Squadron's attached instructor of the year at the U.S. Air Force Academy. He is a rated commercial pilot, certified flight instructor, and a designated pilot examiner. He owns a high performance glider and takes advantage of the unique flying opportunities found in Colorado.

In his real job, Dr. Snyder has become an industry icon, providing advice to flyers throughout the world. His business provides no-nonsense advice on all medical issues related to flying and serves as the definitive source for commercial pilots seeking counsel when their livelihood is in jeopardy.

Based upon his many years of significant contributions, first to the United States Air Force and second by taking the entire Aerospace Medicine community to a far higher level, Dr. Quay Snyder is awarded the George E. Schafer Award.

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