President's Page

As we enter a new year, we will hopefully smile and recall the good things of the year and years past to prepare us for the challenges of the present and year ahead. Attitude is important. It helps shape our expectations and helps us through the events that are not to our liking. It greatly affects our performance as human beings whether on the job, participating in everyday life, serving others, or combinations of all these activities. Survival is dependent, in part, on our attitude toward learning and teaching.

For many of us, our attendance at the Aerospace Medical Association Annual Scientific Meeting is a combination of many activities including learning and teaching with, hopefully, the enjoyment of spending some time with colleagues and friends. There is also the pleasure of visiting a city we haven't spent much time in before and partaking of the cuisines and attractions such venues offer. We last met in San Diego in 1984 which was my first meeting and I haven't missed one since. I obviously got hooked after my boss arranged for me to attend and then told me to join the Association and two of our Constituent Organizations. Yes, I recently thanked him for his instructions.

At our 1984 San Diego meeting, Dr. John West gave our Armstrong Lecture. This year, he has agreed to give our inaugural Reinartz Lecture in San Diego. Dr. West is the Distinguished Professor of Medicine and Physiology at the University of California, San Diego, School of Medicine. He is a world renowned researcher on altitude sickness and his lecture will address his work and the effects of altitude on human performance.

This month's Constituent Organization summary is on the Life Sciences and Biomedical Engineering Branch (LSBEB). Lt. Col. Lance Annicelli, as President of LSBEB this year, provided the following brief synopsis.

LSBEB is made up of individuals with an interest and/or expertise in aerospace life sciences and biomedical engineering. As with all of the Constituent Organizations, membership in the LSBEB requires membership in our parent organization, the AsMA. LSBEB traces its foundation to a 1974 merger of two Affiliate organizations, the Aerospace Industrial Life Sciences Association, established in 1962, and the Biomedical Sciences and Engineering Branch (originally named the Bio-Environmental Engineering Section), established in 1965. The objectives and purposes of LSBEB include advancing aerospace life sciences and biomedical engineering expertise by establishing and maintaining cooperation between scientific and engineering disciplines as a means of supporting the application of technology to resolving continuing problems of healthcare, safety, and operational efficiency of personnel working in aerospace and other challenging environments. The LSBEB provides a focal point for informal and formal professional exchange among the highly divergent viewpoints represented by life sciences, specifically those of a biomedical and engineering nature.

The LSBEB membership comprises approximately 75 members, and with annual dues of only \$5, it is quite a bargain.



James T. Webb, Ph.D.

Some of our prominent LSBEB members include LSBEB Past Presidents Sidney D. Leverett, Jr., Ph.D., former Editorin-Chief of Aviation, Space, and Environmental Medicine; Glenn W. Mitchell, M.D., also an AsMA Past President; and, Jim Webb, Ph.D., current AsMA President.

LSBEB officers and membership meet formally during the Annual Scientific Meeting of the AsMA. The combined Business and Social meeting provides an opportunity to conduct essential business such as membership renewal, the presentation of awards, as well as the inauguration of newly elected officers. It also provides the opportunity for members, or those interested in becoming members, to meet with each other, network, and socialize. Each year the LSBEB aims to continue to sponsor and/or co-sponsor at least one scientific panel during the annual scientific conference.

The LSBEB has a robust awards program which includes the selection of recipients for the following awards. While nominations can only be submitted by LSBEB members, nominees are not required to be members.

- The A. Howard Hasbrook Award recognizes an individual who has provided noteworthy data or design with respect to safety, survivability or crashworthiness relevant to aircraft or space vehicles.
- The Professional Excellence Award 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 Research and Development Innovation Award is presented 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.
- The Ross McFarland Student Award, established in 1975, is given to the author of the best student research paper accepted by the AsMA Scientific Program Committee that reports on a significant achievement in biomedical engineering.

For membership and other information about LSBEB, please contact Lt. Col. Lance Annicelli via email at asma.lsbeb@gmail.com.

Association News

AsMA Wins Award for Website Redesign

This past October, the Aerospace Medical Association (AsMA) was selected out of over 4,000 entries to receive a Silver Davey Award for AsMA's successful website redesign with the assistance of American Technology Services (ATS). The Davey Awards are judged and overseen by the International Academy of Visual Arts (IAVA) and honors the finest creative work from the best firms, agencies, and companies around the world.

"Î am very pleased that our collaborative efforts have resulted in the recognition of the Aerospace Medical Association website" said Jeffrey C. Sventek, AsMA Executive Director "The process of designing, developing, constructing, and activating our website in collaboration with American Technology Services was thorough, pleasant and efficient. It has helped us in increasing our membership and we will continue to work closely with ATS to maintain components of our website that help us update this most important marketing and information distribution capability."

ATS first started working with AsMA in 2012, after being selected through a competi-

tive RFP process. "Working collaboratively with AsMA through our discovery and information architecture process helped ensure this project's success. Not only does the site look better, it's greatly improved from a visitor usability perspective. AsMA has been a great partner and we look forward to what we can accomplish together next" noted Adam Hostetter, head of ATS' Design and Development group.

The new site was built on the Kentico CMS, which offers advanced out-of-the-box functionality such as revision control, workflow, and in-page editing. This has refined AsMA staff's ability to update and maintain the website while providing a consistent and user friendly experience for AsMA website constituents. ATS also integrated AsMA's association management system with the new site, allowing users to single-sign-on with their backend system, for a seamless experience.

—From an ATS press release at http:// networkats.com/news/2013/aerospace-medicalassociation-%28asma%29-wins-davey-award-forwebsite-redesign.

services and systems, public health, and consumer health. An Innovation Showcase, Case Competition, awards, and reception will also be part of this event. (Note: The Innovation Forum will be held offsite at a nearby hotel).

- Abstract Writing and Oral Presentation Workshop: A free workshop on how to write and prepare scientific abstracts and oral presentations.
- Meet the AJPM Editors: Accentuating our relationship with the American Journal of Preventive Medicine, ACPM is proud to present a special session with the new Editor-in-Chief of AJPM, Dr. Matthew Boulton, and his editorial staff to discuss their vision for the Journal and how ACPM members can best contribute to its content.
- Global Health: Several sessions this year are focused on the topic of preventive medicine in global health.
- Basic Life Support and "Street" Medicine: The BLS course will be a Wednesday preconference workshop for those attendees who need to re-certify. In addition, we will also offer a half-day workshop on "Street" Medicine for those interested in this topic.

Finally, we have a strong lineup of confirmed plenary lecturers, including our KBS Lecturer Dr. Ken Warner (Avedis Donabedian Distinguished University Professor of Public Health), Dr. Nils Dulaire (Assistant Secretary for Global Affairs, U.S. Department of Health and Human Services), Dr. Jay Parkinson (CEO of Sherpaa), and Dr. Kenneth Kizer (Director, Institute for Population Health Improvement (IPHI) at the UC Davis Health System).

Clearly, Preventive Medicine 2014 is shaping up to be another stand-out conference by providing a diverse array of programming around the theme of Innovation in Preventive Medicine. To review the latest program, please visit http://www.preventivemedicine2014.org/meeting-program.html.

Don't miss out on what is sure to be a fantastic conference. See you in February and Laissez les bons temps rouler! Sincerely, CAPT Paul Jung, USPHS 2014 Conference Chair

Preventive Medicine 2014 From the Desk of the Meeting Chair

On behalf of the Conference Planning Committee, I have the honor to invite you to attend *Preventive Medicine 2014*, the premier educational opportunity for preventive medicine physicians and health professionals committed to disease prevention and health promotion.

This year's theme is "Innovation in Preventive Medicine." As resources for public health and prevention are drastically reduced, Preventive Medicine 2014 will explore ways that we can design and implement innovative, effective, and efficient population-based programs, both private and public, in our new age of austerity.

We will offer programming in the fields of Population Health, Clinical Preventive Medicine, Informatics & Technology, and Quality Improvement, as well as sessions for Career Development and Military Medicine. In addition, we will have unique and exciting programming this year, including:

- The New Orleans Sessions: A series of short, impactful presentations on health issues in New Orleans and the surrounding Gulf region.
- Innovation Forum: The first-of-its-kind ACPM Innovation Forum. These sessions will be on innovations in technology, health



RAS Lecture—Participants in the Royal Aeronautical Society's Oct. 24 lecture titled "Red Bull Stratos Space Jump - Pushing Human Physiology at Mach 1.25." AsMA Executive Director Jeff Sventek was inducted as a Fellow of the RAS during the meeting. Left to right are Lance Annicelli, USAF Exchange Physiologist, RAF Henlow; Jeff Sventek; Oliver Bird, M.D., RAF CAM; Art Thompson, Red Bull Stratos Technical Director; Jack Bassick, David Clark Company Executive Vice President; Nic Green, M.D., RAF CAM; Rob Monberg, USAF Exchange Pilot-Physician, RAF Henlow. (Photo provided by Ronda Annicelli.)

New Membership Dues Structure

The Executive Committee of AsMA has approved an increase in dues for the first time since 2009. Corporate dues have not been increased since 1998. The new fees took effect beginning January 1, 2014.

1-Year Active Member: \$280.00 3-Year Member: \$780.00 Member/Spouse: \$500.00 (one journal)

Life Member: \$5,000.00 Technician: \$130.00 Resident: \$165.00

Student: \$50.00 (online journal only; paper journal \$50 extra) Emeritus: \$50.00 (online journal only; paper journal \$50 extra)

Corporate: \$450.00

Upcoming FAA AME Seminars

Feb. 21-22, 2014 Atlanta, GA Neuro[†]

March 24-28, 2014 Oklahoma City, OK Basic*

May 12-15, 2014 San Diego, CA AsMA

July 14-18, 2014 Oklahoma City, OK Basic*

August 8-10, 2014 Bethesda, MD Cardio[†]

October 9-11, 2014 Reno, NV CAMA[‡]

October 27-31, 2014 Oklahoma City, OK Basic* **Please note:** AsMA only takes registrations for the seminar held in conjunction with our annual meeting in May. For all others, please see below.

O/O/E = Opthalmology/Otolaryngology/Endocrinology

* A 4-1/2 day AME seminar focused on preparing physicians to be designated as Aviation Medical Examiners. To sign up or for more information, contact your Regional Flight Surgeon.

† A 2-1/2 day AME theme seminar consisting of 12 hours of AME specific subjects plus 8 hours of subjects related to a designated theme. Registration must be made through the Oklahoma City AME Program staff. Please call (405) 954-4831 or (405) 954-4830.

‡ Sponsored by CAMA, sanctioned by FAA. Registration may be competed through the CAMA website http://www.civilavmed.com/ or by calling CAMA at (770) 487-0100

For more information, you can visit the FAA's site at: www.faa.gov/other_visit/aviation_industry/designees_delegations/designee_types/ame/seminar_schedule/.

Meetings Calendar

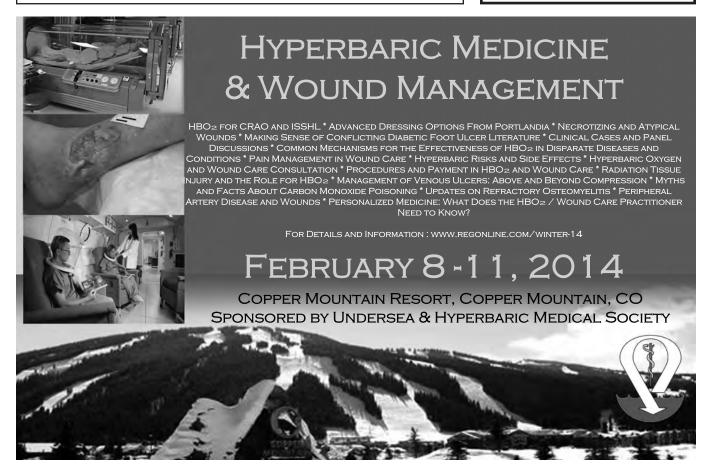
January 23-26, 2014; Flying Physicians Association Winter Board Meeting (open to all); Cape Coral, FL. Please visit www.fpadrs.org for details and registration information.

February 19-22, 2014; Preventive Medicine 2014 - Annual Meeting of the American College of Preventive Medicine; Hilton New Orleans Riverside, New Orleans, LA. Please visit www.preventivemedicine2014.org/ for meeting details.

April 1-3, 2014; Federal Aviation
Administration (FAA) Civil Aerospace
Medical Institute (CAMI) colloqium on
Postmortem Forensic Toxicology in
Aviation; Mike Monroney Aeronautical
Center, Oklahoma City, OK. For more information, please visit http://www.faa.
gov/go/toxmeeting.

June 3-5, 2014; AirMed 2014 World Congress; Rome, Italy. For more info, please see the pdf flyer found at http://www.asma.org/asma/media/asma/ pdf-meetings/airmed2014_worldcongress.pdf.

June 18-21, 2014; Undersea & Hyperbaric Medical Society Annual Scientific Meeting; Hyatt Regency, St. Louis, MO. For more information, please see http://membership.uhms.org/event/ASM14.





European School of Aviation Medicine

Training courses 2014 for EASA/FAA - Aero Medical Examiners

AAME class 1 8-16 March 2014

Advanced course 23/2

AME class 2 6-14 September 2014

Basic course 24

AME class 1 29 November -Advanced course 24 7 December 2014

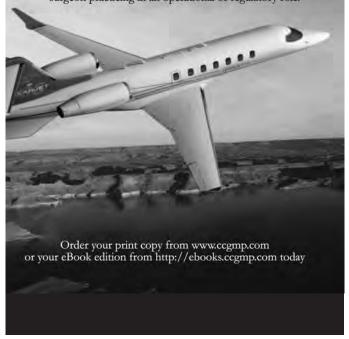
> Venue: Lufthansa Aeromedical Center **Frankfurt Airport**

Application forms and further details under www.flugmed.org or www.eusam.org

RAYMAN'S CLINICAL AVIATION MEDICINE

5th edition, 2013

The 2013 fifth edition is a complete, 485-page rewrite of the classic text. Fifteen physicians well experienced in aviation medicine provide aeromedical disposition guidelines for civil and military aviation, making it an indispensable reference for the aviation medical examiner or flight surgeon practicing in an operational or regulatory role.



Nominations Sought for 2014 AsMA Awards

The Awards Committee of the Aerospace Medical Association, which selects the annual winners of special awards, has set a January 15 deadline for receiving nominations for awards to be presented at the Annual Scientific Meeting. The names of prospective award winners should be submitted as far in advance of the deadline as possible. To view a list of past recipients go to the AsMA website:

http://www.asma.org/asma/ media/asma/membership/awardwinners.pdf. Nominations can be made by any member of AsMA.

- 1. The nominee must be a current member of the Association by Feb. in the year in which the award may be given, with the sole exception that the Sidney D. Leverett, Jr., Environmental Science Award is open to
- 2. Employees of a company sponsoring an award are eligible to receive the award. Self-nomination is not allowed. Deceased members may be nominated.
- 3. Nominations for the Tuttle Award must cite a specific paper printed in Aviation, Space, and Environmental Medicine. The award will be given to the first author, with co-authors that are AsMA members receiving co-author recognition.
- 4. Nominations for the Leverett Environmental Science Award may be awarded for a cited paper printed in Aviation, Space, and Environmental Medicine, or can be awarded for activities conducted in support of aerospace systems operations. If awarded for a cited paper in Aviation, Space, and Environmental Medicine, the award will be given to the first author, with co-authors who are AsMA members receiving co-author recognition.
- 5. An individual can only receive one award in any one year. The same individual may receive an award more than once, so long as 5 years have elapsed between the last time that award was won by that same awardee. The exception is the Bauer Award, as this award is only given once to an individual.
- 6. Nominations are good for 3 years from the original nomination. They may be updated. If substantial material has changed for the same award within those 3-years, a new nomination should be submitted.

- 7. The form is available on the AsMA website. You may either submit the nomination directly from the website or you may download the nomination form into your computer for e-mailing as a pdf document attachment. Nomination forms sent via e-mail should be addressed to the Awards Committee Chair, Cheryl Lowry, M.D., at awards@asma.org; and Ms. Gisselle Vargas at AsMA Headquarters (gvargas@asma.org). If e-mail is not available, you can send a hard copy of the form via normal mail to: Aerospace Medical Association, 320 South Henry St., Alexandria, VA 22314; or fax to the AsMA Home Office: (703) 739-9652. Any auxiliary biographical material in electronic or hard copy attachments must be limited to 3 typed pages and will be retained in Association files.
- 8. Nominations received after January 15th will be considered for awards to be presented at the next annual meeting.

ANNUAL AWARDS (descriptions online)

- 1. Louis H. Bauer Founders Award
- Boothby Edwards Award
- 3. John Ernsting Award
- 4. Kent K. Gillingham Award
- 5. Walter and Sylvia Goldenrath Award
- Won Chuel Kay Award
- 7. Joe Kerwin Award
- 8. Mary T. Klinker Award
- Sidney D. Leverett, Jr. Environmental Science Award
- 10. Eric Liljencrantz Award
- 11. Raymond F. Longacre Award
- 12. Theodore C. Lyster Award
- 13. Marie Marvingt Award
- 14. Harry G. Moseley Award
- 15. John A. Tamisiea Award
- 16. Thomas J. and Margaret D. Tredici Award
- 17. Arnold D. Tuttle Award
- 18. John Paul Stapp Award
- 19. Julian E. Ward Memorial Award

AEROSPACE PHYSIOLOGY REPORT

Send information for publication on this page to: Dana Thomas aviation_addict@yahoo.com

http://aspsociety.org/

AsPS Awards: Call for Nominations in Aerospace Physiology Operational Excellence, Training, Research and Leadership

by Dr. Oliver J Bird, M.B., Ch.B., D.Occ.Med., D.Av.Med., MRAeS, CAsP, AsPS Awards Committee Chairman

The Aerospace Physiology Society (AsPS) presents three major achievement awards to recognize individuals who perform extraordinary work within the Aerospace Physiology Community. Awards will be presented at the Aerospace Medical Association's 85th Annual Scientific Meeting, held in San Diego, California, 11-15 May 2014. Society Awards will be presented at the annual luncheon, Wednesday, 14 May 2014.

The awards are presented for outstanding achievement in all areas of aerospace physiology: operational support, training, research, and leadership. The descriptions of each award are:

The Paul Bert Award recognizes outstanding research contributions in aerospace physiology. This award was established in 1969 and is named in honor of the famous French physiologist, Paul Bert, the "Father of Pressure Physiology." Nominees will be considered for research covering the previous five year period. Limit the nomination to 2 or 3 major research contributions. The Awards Committee considers unrecognized nominations from the three past years, though it is strongly recommended that those nominations be updated annually in writing. Research areas may range from basic science to research in highly applied areas of aerospace physiology. Wyle currently sponsors the Paul Bert Award. The award was not presented in 2013.

The Fred A. Hitchcock Award recognizes career contributions of senior aerospace physiologists for excellence in either operational aerospace physiology or aerospace physiology research. The award was established in 1972, and is named in honor of Fred A. Hitchcock Ph.D., co-translator of Paul Bert's classic work, "Barometric Pressure". International ATMO of San Antonio, TX sponsors the Fred A. Hitchcock Award with an honorarium, a plaque, and an edition of Paul Bert's classic work, "Barometric Pressure". The Awards Committee considers unrecognized nominations from the three past years, though it is strongly recommended that nominations be updated annually in writing. The 2013 winner was Lt Col James Lasswell.

The Wiley Post Award recognizes outstanding contributions in direct operational physiology and aeromedical training and education. In 1972, the Wiley Post Award replaced the Paul Bert Award for Operational Physiology. It is named in honor of the aviation pioneer Wiley Post and is presented for exceptional service and achievement in operational physiology, including education and physiological support of Dept. of Defense, FAA, NASA, or civilian aircrew. The Gentex Corp. of Carbondale, PA sponsors the Wiley Post Award with an honorarium and a plaque. The Awards Committee considers nominees

for the previous 12-month body of work in operational physiology. Unrecognized nominations from past years will not be considered. The time period of inclusion for this award shall encompass the previous calendar year (2013). The 2013 winner was Maj Alejandro Ramos.

AWARD SUBMISSION CRITERIA DEADLINE: 01 February 2014

The standard Aerospace Medical Association Awards form shall be the format. The nomination should include:

- 1) A citation (reason for the nomination) of 80 words or less.
- 2) A summary of significant accomplishments (include dates and relevance) of less than 300 words.
- 3) A one page professional biography of the nominee.

4) A portrait photograph of the nominee. Standard award forms may be downloaded from the AsPS website (www.aspsociety. org) or obtained by contacting the Award Chair via email:

(aerophyzsociety@gmail.com), which can be also found on the Aerospace Physiology Society website. Digital email submission of the award package is preferred. MS-Word for documents and TIF or JPEG files for graphics are the preferred file formats. Hard copy nominations will be accepted by mail. Awards not submitted on the AsMA form will not be accepted. Nominations should specify the time interval over which the nominee's contributions were made. Members are strongly encouraged to nominate and recognize outstanding contributions by professional peers within the society. Nominees must be a current member "in good standing" of both AsMA as well as AsPS. Nominations may be submitted by anyone, regardless of AsMA or AsPS membership. Chain of command endorsements are not required for military nominations, but may be considered by the committee.

Award nominations are due no later than 01 February 2014. Late nominations will not be considered or carried over to the next year. Send nominations via Word or PDF format to the Awards Committee Chairman at: aero-phyzsociety@gmail.com

Aerospace Physiology Board Certification Announcement 2014

 $by\ Heath\ M.\ Clifford,\ LCDR,\ MSC,\ USN,\ CAsP$

The Executive Council of the Aerospace Medical Association (AsMA), acting upon recommendations of the Aerospace Physiology Certification Board, grants certification in aerospace physiology. Board certification in aerospace physiology was established by the Aerospace Medical Association to encourage

the study, improve the practice, and elevate the standards of excellence in aerospace physiology. Formal Board Certification provides an avenue for professional and peer recognition in aerospace medicine, and is a worthy goal for members to attain.

This year's certification examination will be offered at the 85th Annual Scientific Meeting of the Aerospace Medical Association on Sunday, 11 May 2014, in San Diego, CA.

Board certification is for professionals with an abiding interest and demonstrated productivity in the field of aerospace physiology. Applicants must possess, as a minimum, a baccalaureate degree either in physiology or a closely related science. A history of significant contributions to aerospace physiology is also required. Applicants should have 5 years of active professional experience in an aeromedical field. Exceptional applicants can request a waiver of any and all of the aforementioned eligibility requirements by submitting a letter to the Admissions Committee Chair. This letter shall specify experience, knowledge, education, or other facets which alleviate the need to meet eligibility requirements.

The 5-hour exam contains questions covering various areas relevant to aerospace physiology, including but not limited to general human physiology, acceleration physiology, decompression physiology, impact, hypoxia, vibration and noise, operational aspects, space physiology, and spatial orientation.

Applications and letters of reference are due to the Admissions Committee no later than Saturday, 1 March 2014. Applicants should contact the Admissions Chair for an application form (available in English only). Applicants must also submit a suitable digital portrait photograph (5 \times 7), a short professional biography of less than 300 words, two professional letters of recommendation submitted directly to the Board, and a one-time, non refundable Application Fee of \$25 (U.S). A non-refundable \$75 Examination Fee is due prior to the exam. Make checks payable to the Aerospace Physiology Certification Board. Applicants must submit documents to the Admissions Chair in a digital format: MS-Word compatible for text documents and high-resolution JPEG for graphics/photos.

Applications for Aerospace Physiology Board Certification are available from the Admissions Committee Chairman: James W. Davis, Maj., USAF, BSC, CAsP Aerospace & Operational Physiology Flight Commander

20th Aerospace Medicine Squadron 431 Myers Street Shaw AFB, SC 29151 Email: james.davis.16@us.af.mil Comm: (803) 895-6789 Deadline for Application: 1 March 2014

JOIN AsPS TODAY!

Visit our website at: http://aspsociety.org/ Membership is only \$15. For more information, please contact:

Tom Massa email: aerophyzsociety@gmail.com

Send information for publication on this page

Corporate News Aerospace Medical Asso

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

News of Corporate Members

David Clark Co. Designing New U.S. Space Suit

David Clark Company is designing a new space suit for U.S. astronauts in conjunction with Oceaneering International. The suit will be designed for missions to the International Space Station (ISS), the Moon, and Mars, and will allow for extravehicular activity (EVA). It will also be more flexible and allow more mobility, but will still protect astronauts from the extreme environments found in space. The suit will be able to keep astronauts alive for up to 150 hours and also contains a computer that links directly to Earth. NASA has proposed a reconfigurable suit where the arms, legs, boots, and helmets are interchangeable with different suit torsos so that one suit can do the job of three specialized suits. David Clark has been designing space suits for NASA since the

—Excerpted from a story at http://www.technologyreview.com/news/417216/nasas-next-space-suit/, found at David Clark's Facebook page: https://www.facebook.com/Davidclarkcompany.

ALPA Commends FAA for New Pilot Training Rules

The Air Line Pilots Association, Int'l (ALPA), recently applauded an announcement made by the Federal Aviation Administration (FAA) to move forward with the implementation of new training rules for air carrier pilots. The new rules were announced by U.S. Secretary of Transportation Anthony Foxx and Federal Aviation Administrator Michael Huerta at a press conference at the Department of Transportation (DOT) Headquarters in Washington, DC. The new rules represent a significant safety enhancement and improve the way airline pilots are trained. ALPA participated in the formulation of these rules as a member of the FAA's Aviation Rulemaking Committees, offering particular expertise in the areas of pilot training, qualification, and stall and upset recovery training. These new regulations not only improve training in the areas of stall prevention and recovery, effective pilot monitoring, and runway safety enhancements to name a few, they also improve standards applicable to flight simulators, the devices used to train

—For more on this, please see http://www.alpa.org/Portals/Alpa/PressRoom/PressReleases/2013/11-5-13_13.57.htm.

NIOSH Makes "Women in Science" Videos Available

The National Institute for Occupational Safety and Health (NIOSH) announced the availability of a new series of videos highlighting the stories of NIOSH female scientists. These "Women in Science" videos place the spotlight on the talented and diverse female

researchers at NIOSH who provide encouragement for future occupational safety and health professionals, both men and women.

The development of world-class talent in science, technology, engineering, and mathematics (STEM) is critical to America's global leadership. Scientists and policy makers see a particular need to engage young women in STEM careers, to address the fact that disproportionately fewer women than men currently work in STEM fields. These video spotlights touch upon the value placed by NIOSH on nurturing the rising generation of female scientists and encouraging a new generation of scientific talent.

The "Women in Science" videos feature seven NIOSH scientists who share their personal journeys into various fields, describing interests while acknowledging duties, challenges, and balancing family life. The scientists include two epidemiologists, a U.S. Public Health Service officer and medical epidemiologist, a health communication specialist, a medical officer, a research civil and environmental health engineer, and a research psychologist. Between them are stories describing their career paths, the importance of research in protecting the American workforce, and advice for aspiring young scientists.

—For more on this, please see http://www.cdc.gov/niosh/updates/upd-11-12-13.html.

Baxter Collaborates with Cell Therapeutics

Baxter International Inc. and Cell Therapeutics, Inc. (CTI) recently jointly announced that they have entered into an exclusive worldwide licensing agreement to develop and commercialize pacritinib, a novel investigational JAK2/FLT3 inhibitor with activity against genetic mutations linked to myelofibrosis, leukemia, and certain solid tumors. Pacritinib is currently in Phase III development for patients with myelofibrosis, a chronic malignant bone marrow disorder.

Under the terms of the agreement, Baxter gains exclusive commercialization rights for all indications for pacritinib outside the United States and Baxter and CTI will jointly commercialize pacritinib in the United States. Baxter will make an upfront payment which includes an equity investment in CTI. In addition, CTI is eligible to receive clinical, regulatory, and commercial launch milestone payments, some of which relate to clinical milestones that may be achieved in 2014. Assuming regulatory approval and commercial launch, CTI may receive additional sales milestone payments. CTI will receive royalties on net sales of pacritinib in ex-US markets, and the companies will share U.S. profits equally. Baxter will record a special pre-tax inprocess research and development charge in the fourth quarter of 2013.

—Excerpted from a press release at http://www.baxter.com/press_room/press_ releases/2013/11_15_13_pacritinib.html.

IFALPA Releases Position Statement

The International Federation of Air Line Pilots' Associations (IFALPA) has released a position statement recommending that closedcircuit TV (CCTV) systems be installed in commercial transport aircraft for safety and security purposes. The statement lists what areas both outside and inside the plane, should be scanned, but says that the images should not be recorded or downlinked. The recommendations also include that the system should use color images, should allow for partial or full disablement from the flight deck, and should provide flight crew with visual confirmation that there is no potential threat in the area immediately behind the cockpit door and that the area is clear of passengers. The statement also recommends that CCTV systems should be able to detect failure and have annunciation capability and that tampering should generate a warning.

—Excerpted from a statement found at http://www.ifalpa.org/store/14POS20% 20-%20Closed%20Circuit%20TV%20(CCTV). pdf (pdf file).

Oregon Aero Recognized by U.S. Air Force

Oregon Aero, Inc., employees have received a U.S. Air Force Director's Award for the company's contributions to the F-22 Life Support System Task Force, a program which restored the F-22 Raptor fighter jet fleet to active service. The fleet had been grounded when some pilots experienced symptoms resembling those caused by low blood oxygen levels. Oregon Aero, collaborating with the Air Force Research Laboratory, designed and manufactured a pilot helmet ear seal to accommodate the installation of an oxygen sensor into the ear seal to collect data for study by Air Force investigators. The Oregon Aero ear seal enabled the sensor to function properly while still providing a comfortable, pain-free, highnoise-attenuating ear seal for the pilots. Oregon Aero personnel also managed the integration of the helmet components, working with multiple military contractors and delivering more than 435 helmet systems to several locations on budget and ahead of schedule.

The Director's Award presented to Oregon Aero employees was signed by Major General Charles W. Lyon, Air Combat Command Director of Operations, and by Colonel Gregory M. Gutterman, F-22 Systems Program Director, who called the F-22 challenge "the Air Force's toughest Life Support System issue in recent memory." The Award to Oregon Aero employees states, "Your outstanding efforts and personal sacrifices on the F-22 Life Support System Task Force returned the world's most capable fighter to fully mission capable, restored confidence in the F-22 Raptor, and recaptured acquisition excellence for the F-22 Program and our Air Force."

—From a press release found at http://www.oregonaero.com/pressreleases/oregon-aero-recognized.

Send information for publication on this page to: News of Members Aerospace Medical Association 320 S. Henry Street Alexandria, VA 22314-3579

NEWS OF MEMBERS

Focus on Members: Susan P. Baker

Susan Baker, M.P.H., Sc.D. (Hon.), has been honored by the National Association of



Medical Examiners with an annual award established in her name. The Susan Baker Public Health Impact Award is presented for the best paper presented at the NAME annual meeting related to forensic medicine/pathology or medicolegal death in-

vestigation and has the potential to contribute to public health.

Prof. Baker was the first researcher to think of analyzing data from injury deaths in order to implement changes to prevent severe injuries. She has published more than 250 papers and her work has led to mandatory child safety seats in cars, graduated driver's licensing for new drivers, decreased fatalities in house and aviation fires, and reductions in carbon monoxide poisonings, drownings, childhood asphyxiations, and falls in the elderly. She also founded the United State's first injury control research center.

Within AsMA, Prof. Baker is a Fellow, has served on the Advisory Editorial Board twice and as co-chair of the Aviation Safety Committee, and is an honorary member of the Wing. She received the John Paul Stapp Award in 2005 and the Harry G. Moseley Award in 2010 for her role as founder of injury epidemiology and prevention.

She was awarded the Frank A. Calderone Prize in Public Health in 2010. Other awards include the Charles A. Dana Award for Pioneering Achievements in Health, an honorary Doctor of Science degree from the University of North Carolina, "Bad Guy of the Month" from *Road Rider* motorcyclist magazine, and awards from the American Public Health Association, the Association for the Advance-ment of Automotive Medicine, and the American Association for the Surgery of Trauma.

Prof. Baker earned a B.A. in zoology from Cornell University in 1951 and an M.P.H. in epidemiology from the John Hopkins University in 1968. She was the first Director of the Johns Hopkins Injury Prevention Center and has served as vice chair of the American Association for Automotive Medicine. She is credited with development of the Injury Severity Score, a standard tool used to measure the severity of injury by clinicians and researchers worldwide. She became a licensed private pilot when she was 56, has taken primary and advanced courses in Airplane Crash Survival Investigation, and has served on FAA-sponsored expert panels on shoulder restraint use and on the Age 60 Rule. In addition to the articles she has written, she has also published eight textbooks, including "The Injury Fact Book," the most widely referenced text in the field of injury prevention and control.

Prof. Baker was recently featured in an article in the *Magazine of the John Hopkins Bloomberg School of Public Health*. The section on Prof. Baker in the article in the JHSPH

Thompson Inducted into Air & Space Hall of Fame



Hall of Fame--Art Thompson, center, stands between Jeff Skiles, Co-Pilot, and Doreen Welsh, Flight Attendant, both from Flight 1549, which landed in the Hudson River.

magazine can be found at: http://magazine.jhsph.edu/2013/death/sections/death-and-learning/lessons-from-the-dead/page-2/.

AsMA member Art Thompson, along with Col. Joe Kittinger and Felix Baumgartner, was inducted into the International Air & Space Hall of Fame on November 16 for his work on the Red Bull Stratos Project. He shares this honor with other 2013 inductees, who also accomplished milestones in aerospace and aviation activities. Being inducted into the Inter-national Air & Space Hall of Fame is one of the most prestigious awards in the world and the list includes air and space pilots, engineers, inventors and innovators, scientists and industry leaders, astronauts from the United States and Russia, the Wright Brothers, Charles Lindbergh, and Chuck Yeager. More information about the induction ceremony is at: http://www.sandiegoairandspace.org/ calendar/event.phpid=39.

New Members

Bershad, Eric, M.D., Houston, TX Daniel, Allan J., M.D., Fairfield, CA Hewitt, Christopher W., D.O., Capt., USAF, APO AE

Nelms, Joanna M., M.D., Capt., USAF, Fairborn, OH

Norlin, Anders, Sqn. Ldr., M.D., Jarfaella, Sweden

Schmorrow, Dylan, Ph.D., M.S., M.A., Vienna,

Sung, Ilse, Dr., Moscow, Russia VanDewark, Kenneth, M.D., B.Sc., Hamilton, ON, Canada

Woodwards, Robert T. M., Prof., M.D., Littleborough, UK

In Memoriam: Sam L. Pool, M.D.

pday@asma.org

Sam Lee Pool, M.D., passed away on September 22, 2013, at the age of 75. He had



had a long career in aerospace medicine serving in leadership roles both in the military and at NASA Johnson Space Center.

A native of Ardmore, OK, his secondary education included a dualmajor in Physics and Math from Southeastern State

College in Okla-homa (1957), and his Doctor of Medicine degree from Oklahoma University School of Medicine in 1963.

Dr. Pool served as a U.S. Navy Flight Surgeon from 1965 to 1968, after which he joined the NASA Johnson Space Center as a Medical Officer. In this capacity, he supported the Apollo and Skylab Programs. His management acumen was noted early in his career; he was appointed Chief, Space Clinical Medicine Branch in 1976. Dr. Pool was named Chief, Medical Sciences Division in 1978, remaining in that position and developing that organization through 1998. He fostered the development of an exciting new Biotechnology Program during this tenure. All research activities were based upon sound engineering principles, coupled with the latest knowledge in medical sciences, and sprinkled with a dose of innovation and a keen sense of the future. The Biotechnology Program documented numerous important aberrations in cell physiology and genetics that occurred during orbital spaceflight, resulting in several exceptional scientific publications. The National Institutes of Health recognized the unique attributes of the rotating cell culture system developed as part of this program and continues to utilize it in their research.

Dr. Pool was instrumental in the development of NASA medical standards for space-flight, starting in 1977. These standards codified evaluation requirements and medical qualifications for two types of astronauts; Pilots and Mission Specialists. The first Mission Specialists, part of a total class of 35 astronauts, were selected for the Space Shuttle Program in 1978. Later, Dr. Pool led the establishment of medical standards for Payload Specialists and the unique category of Spaceflight Participants.

Dr. Pool, in collaboration with Dr. Arnauld Nicogossian at NASA Headquarters, established the Aerospace Medicine Board (AMB), which certified astronauts for spaceflight. During the next several years, Dr. Pool recruited and trained a new cadre of flight surgeons to support the emerging Space Shuttle Program, while continuing to chair the AMB and as chief of the Medical Sciences Division. This space medicine organization eventually

See POOL, p. 004.

grew to incorporate international partner flight surgeons, as the International Space Station became a reality. The international partner agreements called for the formation of the Multilateral Space Medicine Board (MSMB) that is co-chaired by the US and Russian organizations, and includes representation and voting by all five ISS partner agencies. The international medical community was able to develop a common set of medical standards, procedures, and certification processes that have led to successful deployments of flight crews to the International Space Station with no major medical events during the past 15-years of operations. Dr. Pool co-chaired this MSMB until his retirement in 2005.

Dr. Pool and Dr. Carolyn Huntoon initiated the Extended Duration Orbiter Medical Project in 1989 with the support of Congressional staff that funded the project for approximately \$40 M. The primary objective was to establish requirements for safely extending Space Shuttle missions to durations approaching 3-weeks. Many "firsts" were achieved during this 5-year operational biomedical research project. Statistically valid data sets were obtained through participation of >700 subjects in six areas of biomedical research. A Life Sciences Data Archive was established to provide a permanent, searchable source of biomedical information. Concurrently, Dr. Pool collaborated with Dr. Arnauld Nicogossian and Dr. Carolyn Huntoon to publish the second and third editions of "Space Physiology and Medicine," a book that has remained a valuable reference source.

Crew Transport Vehicles (CTVs) that were developed during the EDOMP solved a longstanding issue for flight surgeons: How to obtain rapid, private postflight access to flight crews. These CTVs were modified commercial "people transporters" utilized by some airports to transfer passengers between terminals and aircraft. The CTV contained a small, enclosed medical evaluation room, reclining chairs for each crewmember, and occasionally some research equipment with technicians. The CTVs were able to dock with the Shuttle on the runway soon after landing, thus permitting private access and immediate medical attention for the flight crews, which greatly enhanced their immediate postflight care.

Dr. Pool fostered a professional work environment that provided high-level management support while empowering a unique EDOMP team that included a project manager, project scientist, chief of flight medicine and an astronaut physician. This team was provided exceptional discretion to develop and fly high priority biomedical studies. The EDOMP also utilized the Shuttle as a test bed for critical exercise equipment that evolved into the operational treadmill and cycle ergometer later flown on the ISS. Furthermore, this project supported studies that helped design the exercise countermeasure program currently in use on the ISS.

Dr. Pool engaged his Russian colleagues to develop concepts for joint flights on the Russian Mir Station during the period 1995-1998. Significant differences in Russian versus NASA medical standards and policies had to be resolved before proceeding with these joint missions. Seven American astronauts ultimately flew 4-6 months each on the

Mir station. This opportunity greatly expanded NASA's biomedical knowledge of long-duration human spaceflight, which was particularly important as NASA and its partners prepared for the forthcoming International Space Station operations.

Throughout his career, Dr. Pool was a strong advocate for medical privacy, particularly for astronauts and their families Whenever individual medical anomalies were reviewed, he consistently supported retention of flight status for the individual, if medical risks could be evaluated objectively and safely reduced to acceptable levels.

Dr. Pool served as Assistant Director for Space Medicine from 1998 through 2005 in his final assignment prior to retirement. Dr. Pool's many significant contributions to the NASA medical community and the Johnson Space Center in particular, blend into an image of extreme accomplishments made by a selfless, enthusiastic physician. He accomplished so much during his long tenure by quietly leading, guiding and mentoring his subordinates. His passing is a great loss to the Aerospace Medical Community.

Dr. Pool received the Jeffries Medical Research Award of the American Institute of Aeronautics and Astronautics in 1981; the President's Award of the Society of NASA Flight Surgeons in 1982; the Boynton Award of the American Astronautical Society in 1985; and a number of other honors from NASA and others. He was President of the Society of NASA Flight Surgeons for 1984-85; President of AsMA's Space Medicine Branch (now Association) for 1985-86; and was made Chairman of AsMA's Constitution by By-Laws Committee in 1987. He presented at numerous AsMA meetings.

Obituary Listings

AsMA was saddened to hear of the death of Dr.med. Volker Lang in a plane crash in late October. Born in Germany and a native of Villingen, Dr. Lang passed the state exams in 1984 and then worked in the German Armed Forces Hospital in Ulm. Following that, he joined Army Aviation as a flight surgeon and in 1993 trained as a helicopter pilot. He worked as a pilot between 1995 and 2000. In 2002, he joined the Air Force, working the in the field of cooperative international aviation medicine. In 2007, he became a flight surgeon at the Air Force's training center at Holloman AFB, NM. In 2011, he took the position of Deputy Director of Aviation Medicine at the Aeromedical Institute of the Swiss Air Force.

AsMA just learned that Leo van der Reis, M.D., died in May 2013. He was born in The Netherlands and earned his degree at the University of Chicago's medical school in 1954. He then completed post-graduate training in internal medicine and gastroenterology at the University of California San Francisco. He served in private practice and at Seton Medical Center until he retired. He was also a visiting professor at various universities and served as Medical Director for KLM Royal Dutch Airlines. The Queen of the Netherlands appointed him an Officer in the Knight Order of Orange-Nassau to honor his efforts to strengthen scientific ties between the United States and The Netherlands. Within AsMA, he was an Emeritus member and Fellow.

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Aerospace Physiology R&D Safety and Training Manager; Environmental Tectonics Corp., Dayton, OH. Design, enhance, and implement the safety and physiology training programs on human factors engineering and ergonomic principals for aviators and aeromedical professionals. Engage in aviation safety and aerospace physiology research. 25% travel required. Req: MS or Ph.D. in Aviation Physiology, Aviation Medicine, or related field + at least 5 vr(s) relevant exp. Mail resume to: ETC, 125 James Way, Southampton, PA 18966, Attn: C. Morgan.

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