



Ever Upward: May 2016

News of Members

Rowena Christiansen, ACCAM, DCH, M.B., B.S., Associate Fellow of AsMA, recently attended the 'Humans in Space' 3-day course presented by the Australasian Society of Aerospace Medicine and then completed the 5-week Southern Hemisphere Space Studies Program run by the International Space University and the University of South Australia. At the end of the course, she was named 'Dux', receiving the certificate for Outstanding Academic Achievement at the Closing Ceremony. She is currently pursuing a Graduate Certificate in Space Studies from the University of South Australia, and undertaking a research project on "The case against mandated appendectomy in expedition medicine", which she hopes will be useful for both space medicine and Earth-bound remote/wilderness/ expedition medicine.



Dr. Christiansen receives the certificate from the course director, John Connolly of NASA. She was wearing a Norwegian-style costume as she was representing Norway as well as Australia.

New Members

- Aguado, Rodolfo O., M.D., Hermosillo, Mexico
- Anghel, Mirela L., M.D., Ph.D., Bucharest, Romania
- Averett-Brauer, Tamara, Col., R.N., Livingston, TX
- Bassey, Yarromi A., M.D., Fairfax Station, VA
- Bedi, Navjyot S., Atlanta, GA
- Berg, Richard A., Dr., Wilmington, NC
- Chavez, Tomas, Capt., ANG, D.O., Tulsa, OK
- D'Hert, Heidi, Dr., Flanders, Belgium
- Dollmann, Max L., Dr., Las Condes, Chile
- Dougherty, Patrick, LT, USN, Ph.D., FPO, AP
- Eidher, Joerg, Dr., Vienna, Austria
- Fenwick, Jerry, Brig. Gen., Nixa, MO
- Gagnon, Mtthew P., Capt., USAF, Barksdale AFB, LA
- Gaillard, Thibaut, Basel, Switzerland
- Hadley, Vanessa M., CDR, USN, Orlando, FL
- Higuchi, Masatsugu, Dr., Tsukuba, Ibaraski, Japan
- Kalliontzis, Athanasios, Dr. Med., Flughafen-Wien, Austria
- Kikuchi, Hiroto, M.Sc., Saitama-ken, Japan
- Lagarda, Juan B., M.D., Hermosillo, Mexico
- Legaspi, Jamie, Stockton, CA
- McKeith, James J., Dr. Med., Galveston, TX
- Miles, Sean, CDR, RN, M.B., Ch.B., Topsham, United Kingdom
- Organ, Brooke, Capt., USAF, Laughlin, AFB, TX
- Pinto, Anoop, Dr., Dubai, UAE
- Purza, Razvan, Mr., Winnipeg, MB, Canada
- Pyne, Kathleen, Wg. Cdr., R.N., Jerrabomberra, NSW, Australia
- Sharpe, Kyle H., Hayes, VA
- Stathi, Chrissoula, M.D., Athens, Greece
- Toups, Gary, Dr., Rochester, MN
- Walker, Shane, Mr., San Francisco, CA
- Woolley, Robert B., Lt. Col., Hanscom AFB, MA
- Wrigley, Alexander, M.B.,B.S., Winchester, United Kingdom

In Memoriam: Arvind Chaturvedi

AsMA was saddened to learn of the death of Dr. Arvind Chaturvedi, Ph.D., FAAFS, AFAsMA, at the age of 68, due to complications from cancer. He had worked with the FAA in Oklahoma City for over 25 years.



After earning a doctorate from Lucknow University in 1972, Dr. Chaturvedi joined Vanderbilt University in 1974 for postdoctoral studies in pharmacology. In 1978, he accepted a toxicologist position at North Dakota State University. In 1990, Dr. Chaturvedi began working as an aero-space medicine scientist at the U.S. Federal Aviation Administration. He also served as an adjunct professor at the University of Oklahoma Health Sciences Center.

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Dag Lemming, M.D., Ph.D., an Associate Fellow of the Aerospace Medical Association, has been appointed Chief Medical Officer at the Swedish Civil Aviation Authority since mid-February 2016. Dag is a specialist in internal medicine and pain management and a former senior flight surgeon in the Swedish Air Force.

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Send information for publication in this newsletter to: Journal Department, AsMA; rtrigg@asma.org

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Dr. Chaturvedi taught undergraduate and graduate courses at academic institutions, provided guidance to graduate students, postdoctoral fellows, and visiting scientists/physicians, and authored/coauthored over 200 scientific articles. An Associate Fellow of AsMA, he was also a member of life sciences organizations and served as an editorial board member and reviewer for professional journals, including *Aerospace Medicine and Human Performance*. Most recently he was the first author on an article to be published in the May issue of *Aerospace Medicine and Human Performance*, "Ethanol and Drugs Found in Civil Aviation Accident Pilot Fatalities, 1989–2013," part of a long-term ongoing study.

Dr. Chaturvedi was the recipient of the 2012 William E. Collins Publication Award of the FAA's Office of Aerospace Medicine (OAM). This award is given annually to an OAM employee whose research publication has contributed significantly to the general body of technical or scientific knowledge in furtherance of the OAM mission. The award was presented to Dr. Chaturvedi in recognition of his research on the effects of fluid load on human urine characteristics related to workplace drug testing.

Dr. Chaturvedi authored a book on cancer, published by Tate Publishing, entitled "*Facing Cancer: An Unforgettable Surviving Experience*." In 2007, he was diagnosed with sinonasal non-Hodgkin's lymphoma. In the book, he covered emotional, medical, and spiritual aspects of his journey and summarized the cancer-related process, effects of chemotherapy, bio-medical changes, and the frustrations/depressions that he faced.

Dr. Chaturvedi was a role-model scientist, teacher, colleague, and friend. He will be greatly missed. Memorial donations may be made to the Leukemia & Lymphoma Society (<https://www.lls.org>).

In Memoriam: Anthony N. Nicholson

AsMA was saddened to learn of the death of Anthony N. Nicholson, OBE, D.Sc., M.D. (HC), FRCP, FRAeS. He was a Fellow of the Aerospace Medical Association who served as Vice President in 1992-1994. He had been involved in aerospace medicine since joining the Royal Air Force in 1960. He held appointments at the RAF Institute of



Aviation Medicine from 1960-1999 and was Commandant and Director of Research from 1993-1999, ultimately attaining the rank of Air Commodore. He was Professor of Aviation Medicine at King's College, London.

Dr. Nicholson graduated in medicine in 1957, received his Doctorate in Philosophy in 1964, and Doctorate in Science in 1980, all from the University of Birmingham. In 1996 he received a Doctorate (Honoris Causa) from the Russian Air Force Institute of Aerospace Medicine. He held clinical appointments in neurosurgery and cardiology, and served with the Medical Research Council Neuropharmacology Unit.

Dr. Nicholson was author or co-author of over 30 publications and joint editor (with Ernsting and Rainford) of the 3rd edition of the textbook "Aviation Medicine" published by Heinemann-Butterworth. He had done extensive research into rest and sleep in aircrews and had developed methods for measuring performance and central nervous system function, which led to recommendations for hypnotics and anti-hypertensive and anti-allergenic drugs which could safely be used by aircrews. This research led to his investigation into the effects of fexofenadine on performance and sleepiness and the conclusion that it may, indeed, be safe and useful for aircrew. Other areas of interest were intensive and sustained military air operations and flight time limitations of civil aircrew operating worldwide.

Dr. Nicholson was a Fellow of the Royal Aeronautical Society, The Royal College of Physicians (London), and the Royal College of Physicians of Edinburgh. He was an Academician, International Academy of Aviation and Space Medicine and was appointed an Officer of the Order of the British Empire in 1973. Among his many other awards and honors, he had received the Air Force Board's Richard Fox Linton Memorial Prize for contributions to flight safety, the William K. Steward Award from the Royal Aeronautical Society, the Andre Allard Medal from the International Academy of Aviation and Space Medicine, and AsMA's 1977 Walter M. Boothby, 1986 Raymond F. Longacre, and 2001 Arnold D. Tuttle Awards.

NEWS OF CORPORATE MEMBERS

AOPA to Award Reimagined Cessna to Startup Flying Club

AOPA will give away a reimagined Cessna 150 to a flying club that is just starting out on its mission of making flying fun and affordable for its members. The award will be made to the club selected as the winner of AOPA's Flying Club 150 Giveaway, AOPA President Mark Baker announced in April during a Pilot Town Hall at the Sun 'n Fun International Fly-in and Expo in Lakeland, FL. The deadline to apply is Sept. 1, and the winning club will be notified on or about Oct. 1. Giving away a reimagined Cessna 150 is the continuation of AOPA's ongoing efforts to grow the pilot community by promoting ideas to lower

the cost of flying and create a social environment in which pilots—new and returning aviators alike—can share their enthusiasm for flight. "Reimagined Aircraft" are older airplanes that have been updated from tip to tail. When owned and operated in a community setting such as a flying club, airplanes like Reimagined Cessna 150s and Cessna 152s can put flying within reach for many more people. Clubs can apply via <http://www.aopa.org/Pilot-Resources/Flying-Clubs/150-Giveaway>.

—Please visit <http://www.aopa.org/News-and-Video/All-News/2016/April/06/AOPA-to-award-Reimagined-Cessna-150-to-a-startup-flying-club> to read more about this.

See Corporate News, p. N19

SAA's In-Flight Magazine Wins Award

Sawubona, the in-flight magazine of South African Airways (SAA), the leading airline on the African continent, scooped the award for Africa's leading in-flight magazine for the second year in a row. The award for Africa's leading in-flight magazine was made at the World Travel Awards™ in Zanzibar, Tanzania, this past weekend and received by Ndalo Media, publishers of the magazine. World Travel Awards™ is voted for by travel and tourism professionals worldwide. In the category for in-flight magazines Sawubona competed with inflight magazines from across the continent. Sawubona has informed and entertained travellers for almost two decades with news and information on the airline and the destinations it serves.

—Please see http://www.flysaa.com/us/en/flyingSAA/News/South_African_Airways_in-flight_magazine/Sawubona_awarded_as_first_in_its_class.html for more.

Baxter Partnership Launches Mobile Health App

Baxter International Inc. and the Baxter International Foundation, the company's philanthropic arm, recently collaborated with World Vision India to develop a mobile health application. In addition, Baxter and its foundation made financial and in-kind donations in 2015. In conjunction with Bangalore's Health Department and World Vision India, the Baxter International Foundation launched Sisu Janani Seva, also known as "mHealth," which is a mobile health application that enables staff to better monitor the health status of underprivileged women, during and post pregnancy, and the immunization of children ages 2 and under. Through the app's video and audio features, the staff can provide essential healthcare information and counseling to women on an ongoing basis, thereby reducing possible health risks to the mother and baby. The mothers also receive counseling messages with multimedia features, in addition to other vital healthcare information. Additionally, the new mobile application allows community health workers to easily access information remotely. The project is expected to directly impact 3,000 pregnant women and 2,800 children among 17 impoverished areas.

—Please visit <http://www.baxter.com/news-media/news-room/press-releases/2016/04-14-16-q1-sustainability-release> page for more on this.

Mayo Clinic Study Finds Benefits in Simultaneous Liver-Kidney Transplants

A new study from physicians at Mayo Clinic in Rochester found there may be long-term benefits to simultaneous liver-kidney transplantation versus kidney transplantation alone. The study, "Decreased Chronic Cellular and Antibody-Mediated Injury in the Kidney Following Simultaneous Liver-Kidney Transplantation" was published recently in the journal *Kidney International*. Among patients with high and low levels of donor-specific alloantibodies, the study showed those who received simultaneous liver-kidney transplants demonstrated a lower incidence of cellular and antibody-mediated rejection and chronic injury to the kidney, and demonstrated better overall kidney

function 5 years post procedure. While past research has shown that patients who have a combined or simultaneous liver-kidney transplant can be protected from hyperacute and acute rejection, the recent Mayo Clinic study is the first to examine the potential long-term effects of simultaneous liver-kidney transplant and chronic kidney injury or function.

—Please see <http://newsnetwork.mayoclinic.org/discussion/mayo-clinic-study-finds-long-term-benefits-to-the-kidney-in-simultaneous-liver-kidney-transplant/> to read more about this.

United Builds on 90 Years of Aviation Firsts

When a Swallow aircraft took off from Pasco, Washington, on an airmail route bound for Boise, Idaho, on April 6, 1926, it marked the beginning of 90 years of aviation firsts for United Airlines. Since then, United has connected more than 4 billion people to important business meetings, family events, new experiences and cultures, and, most importantly, each other. United and the family of airlines that it represents has been at the forefront of innovation in the airline industry for the last 90 years. Some of these innovative firsts include: creating commercial aviation's first flight kitchen in 1936; instituting the industry's first progressive maintenance program that dramatically improved efficiency; introducing live television to the airline industry in the 1960s; and being the first airline to fly to all 50 U.S.

See *Corporates*, p. N20

Corporate News Bites

ALPA: The Air Line Pilots Association, International, applauded the inclusion of secondary barriers in the Senate's reauthorization of the FAA. *The press release can be found at <http://www.alpa.org/news-and-events/news-room/2016-04-07-ALPA-applauds-inclusion-mandatory-secondary-barriers-senate-faa-reauthorization>.*

Gentex: Gentex Corporation introduced its Argonaut® double hearing protection (DHP) communications headset to the European market at this year's SAFE Europe Symposium. Based on the design of the ground crew headset Gentex developed for the U.S. F-35 Joint Strike Fighter (JSF) program, the Argonaut DHP headset is designed for use in other harsh military and industrial noise fields. *Please visit <http://www.gentexcorp.com/news-events/news/gentex-introduces-argonaut-ground-crew-headset-to-european-market-at-safe-europe> for more about this.*

Essex: Essex Industries announced that their protective breathing equipment (PBE) has been selected by El Al for use on new 787 aircraft. The Essex PBE is designed to provide crewmembers with ocular, head, and respiratory protection during emergency conditions in an aircraft cabin. *Please see <http://www.essexindustries.com/el-al-selects-essex-pbe/> to read more on this.*

David Clark: David Clark's 9900 wireless system was featured in the February 2016 issue of *Ground Support Worldwide* both in print and online at aviationpros.com. *Please visit <http://www.davidclarkcompany.com/news.php?newsid=77> for more.*

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states, the first to launch first-ever nonstop service between the United States and Chengdu, China, and the first U.S. airline to serve Israel from the West Coast with service between San Francisco and Tel Aviv.

—Please visit <http://newsroom.united.com/2016-04-06-From-Airmail-to-Biofuel-United-Airlines-Builds-on-90-Years-of-Aviation-Firsts> to read more about this.

Air Canada Cargo Introduces Dedicated Freighter Service

Air Canada and Cargojet Airways Ltd., a subsidiary of Cargojet Inc. (Cargojet), announced they are finalizing a commercial arrangement that will result in Air Canada Cargo introducing dedicated freighter services from Canada to Latin America and Europe with Boeing 767-300ER freighter aircraft operated by Cargojet. Air Canada Cargo will become the only provider of direct scheduled freighter service between Canada and Latin America. The new Air Canada Cargo flights will provide 52 tons of net cargo capacity and are scheduled to begin June 9, 2016, subject to obtaining the necessary regulatory approvals. Under the arrangement, Air Canada Cargo also plans to introduce dedicated freighter service to Europe from Toronto in the second half of 2016.

—Please visit <http://aircanada.mediaroom.com/index.php?s=43&item=1001> for more on this.

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Future AsMA Annual Scientific Meetings

April 29-May 4, 2017
Sheraton Denver Downtown; Denver, CO

May 6-10, 2018
Hilton Anatole Hotel; Dallas, TX

May 5-9, 2019
Rio All Suites Hotel, Las Vegas, NV

Meetings Calendar

May 9-10, 2016; ICAO RPAS and Remote ATS Symposium; Stockholm, Sweden. This meeting aims to advance the understanding of remotely piloted aircraft systems and remote air traffic services. For more information or to register, please visit <http://www.icao.int/Meetings/Remotetech/Pages/default.aspx>.

May 17-19, 2016; Humans to Mars Summit; George Washington University; Washington, DC. H2M is the most comprehensive conference in the world focused on landing humans on Mars. For more information and to receive the AsMA registration discount register at <http://H2M.exploremars.org> and enter the promotional code found in the Members Only Section of AsMA's web-site under Member Announcements.

June 22-24, 2016; XXIX National Congress of AIMAS; Trieste, Italy. For more information, please contact Maj (MD) Paola Verde, +39 06 91293471, segreteria@aimas.it, or visit www.aimas.it.

August 20-24, 2016; American College of Preventive Medicine (ACPM) 29th Annual Board Review Course; Hyatt Regency, Baltimore, MD. This is an opportunity to prepare for the American Board of Preventive Medicine (ABPM) certification and re-certification examination. For more information, please visit http://www.acpm.org/page/RC_Home.

September 12-13, 2016; 2nd International Conference on Influenza; Courtyard Berlin City Center, Berlin, Germany. For more, please visit <http://influenza.conference-series.com/>.

September 15-18, 2016; 5th European Congress of Aerospace Medicine; Oslo, Norway. Jointly sponsored by the European Society of Aerospace Medicine, Norwegian Association of Aerospace Medicine, and the Aerospace Medical Association. For more information, please see <https://www.asma.org/annual-meetings/oslo-norway-5th-european-congress-of-aerospace-med>.

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