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Awards of the Space Medicine Branch

At the Scientific Meeting of the Aerospace Medical Association in May 1998 the Space Medicine Branch (SMB) presented two awards, the Hubertus Strughold Award, and the Young Investigator Award. The Strughold Award winner was Valery V. Polyakov, M.D. and the Young Investigator Award winner was Jeffrey A. Jones, M.D.

Hubertus Strughold Award

The Hubertus Strughold Award is presented annually for dedication and outstanding contributions in advancing the frontiers of Space Medicine, for sustained contributions to furthering the goals of the Space Medicine Branch and to whom best exemplifies the ideals of Hubertus Strughold. The recipient of the award is selected by the Strughold Award subcommittee.

This year's Hubertus Strughold Award subcommittee members were Drs. K. Jeffrey Myers (Chair), Denise Baisden, Bradley Beck, John Darwood, Dimetri Economos, Rainer Effenhauser, Wyckliffe Hoffler, Dwight Holland, Smith Johnston, Irene Long, David McKenas, Philip Scarpa, Annette Sobel, David Ward, and Mr. Lloyd Tripp.

Nominations for this award are made by the members of the branch's Executive Committee and by former recipients of the Hubertus Strughold Award. The nominations are submitted 90 days before the annual meeting. The award is presented at the annual business luncheon of the Space Medicine Branch.

Valery V. Polyakov, M.D.

Valery V. Polyakov was born on April 27, 1942, in Tula, Russia. He obtained his medical degree at the First Moscow Medical Institute in 1965. From 1965-1971, he worked in the



PASSING OF THE HISTORIAN'S GAVEL— The Historian's gavel was passed to G. Wyckliffe Hoffler, M.D., the new historian of the Space Medicine Branch, (center) by Frank H. Austin, M.D., (left) former historian, and Denise L. Baisden, M.D., (right) president of the Space Medicine Branch.

Administration of Space Medicine within the Ministry of Public Health. Since 1971 he has worked in the Institute for Biomedical Problems, Moscow, and last year became its Deputy Director. In 1972, he was chosen as a cosmonaut/researcher from a group of physicians from the Institute of Biomedical Problems.

From August 1988 to April 1989, he completed an 8-month spaceflight on board the Russian Mir Space Station and fulfilled a large program of life science studies focused on improving the health and performance of cosmonauts involved in long-duration missions including developing and testing new countermeasures to the effects of spaceflight.

Dr. Polyakov completed the longest flight in space history by staying on the Mir station 14 months, from January 8, 1994 to March 22, 1995. During his mission he fulfilled several unique studies in space medicine, physiology, psychology, and environmental medicine. During his career he has provided medical support to Mir for several missions and has been responsible for several inflight projects including testing of microgravity intravenous infusion systems, developing an inflight blood smear analysis/hematology analyzer with televideo microscopy linking, and helping to develop a microgravity blood biochemical analyzer. He is currently the Primary Supervisor of Medical Support for space station Mir.

He actively participates in international scientific cooperation and has contributed or spoken at several international scientific meetings. He participated as cosmonaut/researcher in joint spaceflights with astronauts from Afghanistan, Germany, and France, and was responsible for operative medical support of these international spaceflights. Dr. Polyakov is co-chairman of the Russian-Canadian Working Group on Space Biology and Medicine and is a member of the International Association of Space Researchers and a corresponding member of the Medical Commission for the selection of cosmonauts.

Dr. Polyakov has received awards and medals by several national and foreign orders and is considered a national hero in Russia. He is widely regarded nationally and internationally as having greatly contributed to the initial medical groundwork to facilitate human trips to Mars.

Dr. Polyakov was selected for the Strughold Award in recognition of his important contributions to Space Medicine, for his record setting experience in extended duration spaceflight, and for his life-long career dedicated to the advancement of the field of Space Medicine.

Young Investigator Award

The Young Investigator Award is presented to investigators just beginning their careers in aerospace medicine who are the first author of an outstanding paper (slide or poster session) in the area of aviation and/or

space medicine presenting at the current or recent scientific meeting of AsMA. In addition, the investigator must be presenting at the annual scientific meeting for the first time. The Young Investigator Award subcommittee nominates these candidates and submits them to the branch's Executive Committee which selects the recipient(s) by a majority vote. The award is presented at the annual business luncheon of the Space Medicine Branch. This year's Young Investigator Award subcommittee members were Drs. K. Jeffrey Myers (Chair), John Darwood, Dimetri Economos, Rainer Effenhauser, Dwight Holland, Smith Johnston, Annette Sobel, and Mr. Lloyd Tripp.

Jeffrey A. Jones, M.D.

Dr. Jeffrey A. Jones was awarded the SMB Young Investigator Award for his paper entitled "Reduction in Space Radiation-Induced Bioeffects With a Chemoprevention Strategy." Dr. Jones did this work as an Aerospace Medicine Resident at the University of Texas Medical Branch in Galveston, TX.

His study demonstrated improved survival of cell cultures exposed to radiation when certain chemicals/medications were prophylactically administered. This work is a very important consideration as we plan for long-duration space voyages to Mars and beyond where solar and cosmic radiation is an expected concern and the protection from radiation by the Earth's magnetic field will not be afforded. In addition, there are implications for medical spinoffs from this kind of research, for example to assist those patients undergoing radiation treatments for cancer.

Dr. Jones envisioned the idea for this research from a combination of his Urology and Aerospace Medicine residencies in order to help treat current medical patients while
(see SMB, p. 826)



YOUNG INVESTIGATOR'S AWARD—Jeffrey A. Jones, M.D., (left) received the Young Investigator's Award from K. Jeff Myers, M.D., Chair of the Awards Committee. The award is underwritten by EG&G, Inc., and the McDonnell-Douglas Corp.

Aerospace Human Factors Association Awards

Stanley N. Roscoe Award

Kara Latorella, Ph.D.

The 1997 Stanley N. Roscoe Award was presented to Kara Latorella, Ph.D. The award is given annually for the best doctoral dissertation related to research in aerospace human factors.

Dr. Latorella is currently an aerospace engineer in the Crew/Vehicle Integration Branch at NASA Langley Research Center. Her dissertation, "Investigating Interruptions on the Flightdeck," was granted from the University of Buffalo's Industrial Engineering department under the direction of Drs. Colin Drury and Valerie Shalin, and was conducted at NASA Langley under the auspices of a Graduate Student Researcher Fellowship award.



Paul T. Hansen Award

William E. Collins, Ph.D.

William E. Collins, Ph.D., is the winner of the 1998 Paul T. Hansen Award for outstanding contributions in the field of aerospace human factors. The award acknowledges the contributions he has made in the areas of research and leadership. Dr. Collins received his doctorate in psychology from Fordham University in 1959. He was hired as a research psychologist in 1961 and has been Director of the Civil Aeromedical Institute since 1989. Dr. Collins has written more than 120 publications and made more than 120 presentations of his research. He



AshFA AWARDS—CDR Andrew Bellenkes, MSC, USN (left), president of the Aerospace Human Factors Association, and Carol Manning, Ph.D., (right) present the Paul T. Hansen Lectureship Award to William E. Collins, Ph.D. (center).



SOCIETY OF NASA FLIGHT SURGEONS—(Top photo) Outgoing president, Richard T. Jennings, M.D., (right) passed the gavel to incoming president, Irene Long, M.D. She in turn presented Dr. Jennings with the President's Award. (Center photo) The Honorary Member this year was Brenda Rouse, R.N. Accepting for her is Denise Baisden, M.D. (right) shown with Dr. Jennings. (Bottom photo) Dr. Jennings presents Michael R. Barratt, M.D. (right) with the W. Randolph Lovelace II Memorial Award.

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protecting astronauts in the future. He personally arranged all the necessary training in the specialized techniques and equipment required to perform his research. He secured the required funding and laboratory time needed on the various instruments. -He planned, developed and performed every aspect of the experiment himself, including the collection of data and its statistical analyses. This project required many hours of night and weekend work to take full advantage of lab availability. Dr. Jones epitomizes the spirit and intent of the SMB Young Investigator Award.

There were 77 contestants in this year's competition. Two papers received Honorable Mention: "Osteoblast Growth in Microgravity on STS-80" by Kevin Forkheim, University Manitoba and Israeli Aerospace Medicine Institute; and "Comparison of Strength Gains Following Different Combined Concentric and Eccentric Exercise Regimens" Patty Hilliard, M.D., University of Texas Medical Branch at Galveston. Other finalists included: Lujiang Shi, Peoples Republic of China; David Hewson, Royal New Zealand Air Force; Christian Otto, M.D., University of Ottawa; Limin Zhang, M.D., Wright State University, OH; Harri Rintala, Finland; Thomas Dumser, M.D., Germany; Patricia Schmidt, Massachusetts Institute of Technology; Simon Evetts, Kings College, London, U.K.; Reis Ferreira, M.D., Portugal; Mads Klokke, M.D., Denmark; and James Padfield Ph.D., Truman State University, MO.

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