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SPACE MEDICINE BRANCH REPORT

Awards of the Space Medicine Branch

At the Scientific Meeting of the Aerospace Medical Association, in May 1995, the Space Medicine Branch presented two awards, the Hubertus Strughold, and the Young Investigator Award. These are the primary awards of the Space Medicine Branch. The following excerpts detail their descriptions and requirements.

The Hubertus Strughold Award is presented each year to a member of the Space Medicine Branch for dedication and outstanding contributions in advancing the frontiers of space medicine, for sustained contributors to further 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 Awards Committee. Nominations for this award will be made by the members of the Executive Committee and by former recipients of the Hubertus Strughold Award. The nominations are submitted 90 days before the annual scientific meeting. The award will be presented at the annual business meeting of the Space Medicine Branch.

The Space Medicine Branch Young Investigator Award is presented to a young investigator who is the first author of an outstanding paper (slide or poster session) in the area of Aviation/Space Medicine presented at the current or previous annual Scientific Meeting of the Aerospace Medical Association. In addition to being the first author, the young investigator must be presenting at the Annual Scientific Meeting for the first time. The Awards Committee nominates these candidates and submits them to the Executive Committee which selects the recipient(s) by a majority vote. The award is presented at the annual business meeting of the Space Medicine Branch. This year, upon the recommendation of the Executive Committee, the Awards Committee required every candidate to submit a manuscript for

review. This new requirement greatly facilitated the evaluation of the young investigator award candidates by allowing a more thorough perusal of their work prior to selection of a winner. We intend to continue this useful step of the evaluation process in the future.

The Executive Committee and I would like to express our great appreciation to the members of the Awards Committee which includes: Melchor Antuñano, M.D., Emmett Ferguson, M.D., Smith Johnston, M.D., Karen Mathes, R.N., Philip Scarpa, M.D., and Timothy Unga, M.D.

Hubertus Strughold Award

Mary Anne Bassett Frey, Ph.D.

Dr. Mary Anne Frey is the recipient of the 1995 Hubertus Strughold Award. A native of Washington, DC, Dr. Frey earned her B.A. in physics in 1970 from George Washington University, where she also earned her Ph.D. in physiology in 1975. She earned an M.B.A. in management from the Florida Institute of Technology in 1984.

From 1970-75, Dr. Frey was a lecturer in the Department of Physiology, George Washington University Medical Center, and from 1972-75 an instructor at Montgomery College, Takoma Park, MD. In 1975, she worked as a Postdoctoral Fellow in the Department of Cardiology at George Washington University.

In 1976, Dr. Frey accepted an appointment as Assistant Professor of Physiology at the Wright State University School of Medicine and College of Science and Engineering, Dayton, OH, where she developed the curriculum for the Physiology Department. Since this appointment, Dr. Frey has worked at Wright State in various capacities, including Director of the Human Cardiovascular Laboratory; Head of the Human Physiology Laboratory; Adjunct Associate Professor, Physiology and Biophysics; and Adjunct Associate Professor, Community Medicine. Since 1989, she has worked as an Adjunct Professor in the Aerospace Medicine Residency Program, Department of Community Health.

In addition to her work at Wright State, Dr. Frey has served as Technical Manager, The Bionetics Corporation, NASA-Kennedy Space Center and from 1986-88, was part of the Clinical Faculty at the University of Central Florida. Dr. Frey also served as a NASA visiting scientist with the Universities Space Research Association from 1987-90.

From 1990-94, Dr. Frey held the position of Manager, Life Support Department, Lockheed Engineering and Sciences Company, Washington, DC. Dr. Frey currently serves as Program Manager, Life and Biomedical Sciences and Applications Division, NASA Headquarters, Washington, DC.

Hubertus Strughold was a scientist, pioneer, and teacher. These principles are the basis for this award. During her distinguished career dedicated to research on human cardiovascular responses to the physiological stresses associated with spaceflight, Dr. Frey has made special contributions to the field of space medicine. She has helped characterize the cardiovascular and physiologic responses for female test subjects and astronauts. In this regard, the space medicine community leads many other research disciplines. Quite a number of us have benefited from Dr. Frey's teaching efforts and her leadership. The legacy of the Strughold Award continues to grow as we add the name Mary Anne Bassett Frey, Ph.D. to this distinguished and venerable list.

Young Investigator Award

LT Demetri Economos, USNR

Demetri Economos, Ph.D. is the winner of the 1995 Space Medicine Branch Young Investigator Award. His paper was entitled "Electrophysiological Implications of Bone Resorption in Spaceflight." His work revealed the presence of a new calcium channel in the osteoblast cell line. This discovery may lead to an improved understanding of how microgravity disrupts calcium homeostasis and thereby exposes new avenues of countermeasures for calcium loss. The implications and potential benefits extend to earthbound subjects with osteoporosis/osteopenia as well.

Dr. Economos proceeded with the study of his original idea by securing his own support from multiple organizations including the use of an international research laboratory in Quebec, Canada. He was involved in every step of every process of this project from beginning to end. He took extreme measures and endured hardship and financial burden to accomplish his research. He also took per-

(see *ECONOMOS*, p. 824.)



STRUGHOLD AWARD—The Hubertus Strughold Award of the Space Medicine Branch was presented to Mary Anne Frey, Ph.D., (right) by Jeff Myers, M.D., (left), Chair of the SMB Awards Committee.



YOUNG INVESTIGATOR'S AWARD—LT Demetri Economos, MSC, USN, (left) receives the Young Investigator's Award from Jeff Myers, M.D., (right). The award was underwritten by KRUG Life Sciences, Inc.

CLASSIFIED ADS

EDUCATIONAL OPPORTUNITIES

ACPM PREVENTIVE MEDICINE REVIEW COURSE, August 25-29, 1995, Stouffer Renaissance Hotel, Denver, CO. A review of the content of preventive medicine, designed to assist physicians preparing for the ACPM certification exam. **36 AMA Category I CME; \$500 member; \$600 non-member registration fee.** Contact American College of Preventive Medicine, 1660 L Street, NW, #206, Washington, DC 20036; (202) 446-2044.



AMDA AWARDS—There were two recipients of the Airlines Medical Directors Association Award for 1995. Pictured here with AMDA Awards Chair, George Kidera, M.D., are (Left photo), Jon Jordan, M.D. (left) and (Right photo) Lutz Bergau, M.D. (left).

AIHA Offers Preventive Measures

The American Industrial Hygiene Association (AIHA) announced its support of the promulgation of an Occupational Safety and Health Administration (OSHA) standard designed to prevent transmission of *Mycobacterium tuberculosis* (MTB) in health care facilities and other affected facilities. The AIHA statement believes the OSHA standard should be based on recent Centers for Disease Control and Prevention (CDC) guidelines.

In the past decade, the U.S. has experienced a resurgence in the number of MTB cases. Between 1985-92 there was a 20% increase in TB cases; the CDC estimates that 10-15 million Americans currently are infected with TB. In addition, several studies have documented that a large number of workers are exposed to tuberculosis. The industry most at risk, health care, is the largest and fastest growing industry in the U.S. with more than 8.5 million employees.

AIHA believes the control and elimination of occupationally acquired TB is a high priority and that industrial hygienists should collaborate with other professionals sharing this concern to ensure that industrial hygiene principles are applied in the development and implementation of MTB exposure control programs.

(*ECONOMOS*, from p. 817.)

sonal leave for the study so as not to interfere with his other assigned duties, opened the laboratory during the night to avoid interference with its other research priorities, and funded his expenses himself. This degree of dedication provides a genuine example of the spirit of intent behind the Young Investigator Award.

This year's competition was again superb, with 170 candidates. Right behind the winner were the following Honorable Mentions: Leslie Wickman, Ph.D., Lockheed, NASA Ames Research Center; Michael Ainscough, M.D., USAF School of Aerospace Medicine, Brooks AFB, TX; Daryl Smith, Wright State University/Wright-Patterson AFB, Dayton, OH; and Thomas Hankins, M.D., Wright State University/Armstrong Laboratory, Wright-Patterson AFB, Dayton, OH.

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Also, send Eileen any change of address you may have throughout the year, so you will receive any special ANS mailings.