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Space Medicine Branch Report

The Wright State University Aerospace Medicine Residency Program

Wright State University conducts an aerospace medicine residency program that prepares physicians for careers in aerospace medicine. The Wright State program is the only civilian aerospace medicine residency program in the United States.

Residents in the program must be physicians who have completed a minimum of one clinical postgraduate year. For some residents, support is available for the training. In addition, a certain number of residents are accepted who are self-supported or institutionally sponsored.

The initial year of the training consists of a summer quarter that includes course work in aerospace medicine principles plus clinical aerospace medicine concepts. The fall quarter is a follow-on period involving aerospace physiology, management principles, and thesis research. The winter quarter includes epidemi-

ology and biostatistics courses, environmental medicine, and continuing thesis research. The spring quarter consists of additional epidemiology and biostatistics courses, health services administration, further environmental medicine course work, and continuing thesis research.

Through our agreement with the Wright-Patterson Air Force Base Research Laboratories, the residents are able to identify with specific research areas and may undertake studies for their thesis research in collaboration with scientific personnel located there. Optional directions for research include the extensive facilities at the Wright State University campus.

In addition to the above, residents may take a foreign language as an elective at Wright State University (one has taken Russian and another has taken French). Also, certain

mathematical and engineering courses may be selected as electives at the University. Several residents have taken flight training at the University-sponsored aviation course, and one recently starting *de novo* has received his private pilot certificate.

The second year of the residency program involves clinical experience in cardiology, pulmonary medicine, ophthalmology, otolaryngology, psychiatry, emergency medicine, and certain additional elective areas. During the second year, most residents continue their research activities and finalize their thesis, after which they are awarded the Master of Science degree. It is possible to complete the academic and thesis work in 1 year, and there are currently two residents accomplishing this.

A third year relates, for certain residents, to specific NASA facilities. These are the Johnson Space Center in Houston, TX, the Ames Research Center at Moffett Field, CA, and the Kennedy Space Center, Cape Canaveral, FL.

The objective of the residency program is to prepare physicians who have a high degree of motivation and competency for careers in aerospace medicine. Each graduate of the program should be able to step into functioning positions in NASA, the FAA, the airlines, the aerospace manufacturers, and other aerospace groups, fully trained and practiced with modern aerospace medicine skills. Graduates will also be prepared for eligibility with regard to the American Board of Preventive Medicine requirements.

Stanley R. Mohler, M.D.
Professor and Director
Aerospace Medicine Program
Wright State University



HONORED BY AIR FORCE—Maj. Gen. John W. Ord, USAF, MC, (left), Commander of the USAF Aerospace Medical Division, Brooks AFB, TX, presents Meritorious Service Medals to two Associate Fellows of the Aerospace Medical Association. Col. Robert T. P. deTreville, USAF, MC (center), received his award for directing aerospace and hyperbaric medicine at the USAF Medical Center, Wright-Patterson AFB, OH, from 1975-80; he is now Consultant in Occupational Medicine within the USAF Occupational and Environmental Health Laboratory at Brooks. Col. Arthur P. Caldwell, USAF, BSC, (right), received his award for directing AMD's Divisions of Aerospace Medicine and Bioenvironmental Sciences at Brooks from 1975-80; he is now Chief of the Consultant Services Division in the USAF Occupational and Environmental Health Laboratory.

Outstanding Unit award to AFAMRL

The Air Force Aerospace Medical Research Laboratory at Wright-Patterson AFB, OH, has received its second Air Force Outstanding Unit Award.

This one recognized the laboratory's outstanding behavioral and biomedical research from Oct. 1, 1977 to Sept. 30, 1979. It was presented to Col. G. C. Mohr, USAF, MC, Commander of the Laboratory, by Maj. Gen. John W. Ord, USAF, MC, Commander of the USAF Aerospace Medical Division.

The Laboratory's continuing task is to determine the limits of human tolerance through finding how various conditions of stress affect performance. Once the stressors are known, the Laboratory works on techniques and equipment to overcome their effect and sustain personnel in future aerospace systems.

Meetings 1981

June 10-12

Conference on Clinical Application of Hyperbaric Oxygen, Sixth Annual, at Memorial Hospital Medical Center of Long Beach, CA, cosponsored by the Irvine, CA, Center for Health Education of the University of California. Info: G. B. Hart, M.D., Director, Baromedical Dept., Memorial Hospital Medical Center, 2801 Atlantic Ave., Long Beach, CA 90801

June 22-24

12th Annual Multidisciplinary Conference on Health-Care Quality at the Bond Court Hotel, Cleveland, OH. Theme: "Quality Assurance in Patient Care—What Works?" Info: Association for Healthcare Quality, Attn: W. H. Kincaid, CWRU School of Medicine, Cleveland, OH 44106.

22 June-3 July

26th International Course in Aviation Accident Prevention Investigative Techniques, *Pre-Mishap*, Stockholm, Sweden. Contact: The Secretariat, Institute of Aviation Safety, Department of Aeronautics, Royal Institute of Technology, S 100 44 Stockholm 70, Sweden.

28th International Course in Aviation Accident Prevention Investigative Techniques, *Post-Mishap*, Contact: Department of Aeronautics, Royal Institute of Technology, S 11 44 Stockholm 70, Sweden.

June 25-27

Lovelace Medical Foundation 3-day symposium on oxygen supply and transport. Info: Wanda C. Tuttle, Ph.D., Director of Research, Lovelace Medical Foundation, 5400 Gibson Blvd., S.E., Albuquerque, NM 87108.

June 30-July 3

Symposium on Behavioural Medicine: Behavioural Treatment of Disease, sponsored by the NATO Science Committee at Porto Carras, Halkadiki, Greece. Info: Scientific Affairs Division (Human Factors), NATO, 1110 Brussels, Belgium.

July 13-15

11th Annual Intersociety Conference on Environmental Systems, San Francisco, CA, jointly sponsored by several professional societies including the Aerospace Medical Association. Info: P. D. Quattrone, NASA-Ames Research Center (239-4), Moffett Field, CA 94035.

July 14-16

The Second International Conference on Mobility and Transport for Elderly and Handicapped Persons is being organized by Loughborough University of Technology with Florida State University, to be held in Cambridge, England. Info: Norman Ashford, Second International Conference on Mobility and Transport for Elderly and Handicapped Persons, Department of Transport Technology, Loughborough University of Technology, Loughborough, Leics, LE11, 3TU, England.

July 26-31

Fifth International Conference of the System Safety Society. Theme: System Safety Applications Throughout System Life." Brown Palace Hotel, Denver, CO. Info: John Susi, 145 E. Costilla Ave., Littleton, CO 80122.

July 26-31

Annual Meeting of the Flying Physicians Association at Sheraton Twin-Towers Hotel, Orlando, FL. Info: FPA, 801 Green Bay Road, Lake Bluff, IL 60044.

September 6-12

32nd International Astronautical Congress of the International Astronautical Federation in Rome, Italy. Theme: Space—Mankind's Fourth Environment. Info: IAF, 250 Rue Saint-Jacques, 75005, Paris, France.

September 7-11

29th International Congress of Aviation and Space Medicine in Nancy, France. Info: International Academy of Aviation and Space Medicine, 935 Ouest rue de la Gaughetiere West, Montreal, P.Q., Canada H3C 3N4.

September 10-11

41st Annual AMA Congress on Occupational Health. Pfister Hotel and Tower, Milwaukee, WI. Info: Barbara S. Jansson, AMA Department of Environmental, Public, and Occupational Health, 535 N. Dearborn St., Chicago IL 60610.

September 19-23

Symposium on Engineering in Medicine and Biology by the American Society of Mechanical Engineers and the Institute of Electrical Electronics Engineers in Houston, TX. Info: ASME, 345 E. 47th St., New York, NY 10017.

October 3-9

Civil Aviation Medical Association, joint meeting with FAA, Kauai Surf Hotel, Kauai, HI. Info: Albert Carriere, 801 Geen Bay Rd., Lake Bluff, IL 60044.

October 11-16

67th annual Clinical Congress of the American College of Surgeons at the Fairmount and San Francisco Hilton hotels, San Francisco, CA. Info: Edwin W. Gerrish, MD, FACS, Director, Assembly Dept., American College of Surgeons, 55 E. Erie St., Chicago, IL 60611.

October 12-16

Human Factors Society 25th Annual Meeting, Rochester, NY. Info: Human Factors Society, P.O. Box 1369, Santa Monica, CA 90406.

October 19-21

2nd International Symposium on Spectroscopic Methods for Biomedical Research, Battelle's Columbus Laboratories, Columbus, OH. Info: Karen L. Waite, Battelle's Columbus Laboratories, 505 King Ave., Columbus, OH 43201.

October 25-31

European Institute of Environmental Cybernetics International Congress on "Environmental Control and Modification." Info: Congress Secretariat, European Institute of Environmental Cybernetics, Athens 513, Greece.

October 29-November 1, 1981

Aviation Medical Society of Australia and New Zealand triennial scientific and business meeting. Sydney, Australia. Info: Dr. A. T. Thompson, Qantas Airways, Ltd., Qantas Jet Base, Kingsford Smith Airport, Mascot, NSW, Australia.

October 30-November 1

Annual Conference of the Joint Society for Advanced Medical Systems/Society for Computer Medicine. Topic: "Computers in Ambulatory Medicine." Sheraton Washington Hotel, Washington, DC. Info: Fred R. Jelovsek, M.D., Box 3968, Duke University Medical Center, Durham, NC 27710.

October 30-November 1

1981 annual meeting of the Aviation Medical Society of Australia and New Zealand, Boulevard Hotel, Sydney, Australia. Info: Aviation Medical Society of Australia and New Zealand, G.P.O. Box 1441, Sydney, Australia 2001.

November 1-4

Fifth Annual Symposium on Computer Applications in Medical Care sponsored by several universities, engineering and medical societies, and government agencies. Sheraton Washington Hotel, Washington, DC. Info: Henry G. Heffernan, George Washington U. Office of Continuing Medical Education, 2300 K. St., NW, Washington, DC 20037.

December 6-10

SAFE Association Silver Anniversary Symposium, Hotel Sahara, Las Vegas, NV. Info: SAFE Association, P.O. Box 631, Canoga Park, CA 91303.

Papers sought for meeting in Australia

The Aviation Medical Society of Australia and New Zealand has issued a call for papers of medical and aviation interest to be presented at its annual meeting, set for Oct. 30-Nov. 1 at the Boulevard Hotel, Sydney, Australia.

Principal guest speakers will be Dr. M. Joy, Consultant Cardiologist of the Civil Aviation Department of the United Kingdom, who will speak on "Current management of flight crew with heart disease," and Roger Green, Ph.D., Institute of Aviation Medicine, Farnborough, U.K., who will speak on "Human and ergonomic aspects of aircraft accidents."

Further information may be obtained from the Society at G.P.O. Box 1441, Sydney, Australia 2001.