The chief air force medical officers of six foreign nations will join with other widely known authorities in the field of aviation medicine in an outstanding scientific program as a fitting observance of the 25th anniversary of the Aero Medical Association at the Statler hotel in Washington, D. C., March 29-31, 1954. Latest developments will be presented in such widely diverse fields as fear of flying during combat in Korea, jet engine noise problems aboard aircraft carriers, accident reduction in private flying, and human engineering and crew effectiveness in the B-52 strategic bomber.

The silver anniversary meeting will open formally at 9 A.M. on Monday, March 29, with an address of welcome by Rear Admiral Bertram Groesbeck, Jr., USN (Ret.), president of the Association. The traditional Civil Aeronautics Administration forum for airline medical examiners will be held in the afternoon, and the Fellows' dinner will be that evening. On Tuesday, March 30, the election of officers, reports of Committees, and other business will be conducted at the annual luncheon meeting. A speaker of national prominence will address the members and their guests at the "Honors Night" dinner on Wednesday, March 31, when announcement will be made of the recipients of the Lyster, Longacre and Tuttle Awards for 1953.

The scientific exhibitors at this year's meeting include the Medical Department of the United States Navy, United States Air Force Medical Service, the Royal Canadian Air Force and the Canadian Defence Research Medical Laboratories. Recent advances in pharmaceutical preparations and therapeutic equipment will be displayed in the numerous technical exhibits that have been scheduled.

The Wives' Wing of the Association have planned a busy and entertaining social schedule for the ladies who attend the 1954 meeting. The Wing will hold its annual business luncheon on Tuesday, March 30, according to Mrs. W. R. Stovall, president, and a large representation of the more than 600 members is expected. The Arrangements Committee for 1954 includes Mrs. Frank B. Voris, general chairman; Mrs. Langdon C. Newman, luncheon chairman, assisted by Mrs. Wilbur E. Kellum, Mrs. Aris Carpoousis, Mrs. Marshall deG. Ruffin and Mrs. R. F. Carmody; Mrs. A. P. Gagge, hostess chairman, assisted by Mrs. Sheldon S. Brownton; and Mrs. Sherman A. Thomas, tea chairman, assisted by Mrs. Otis O. Benson, Jr., and Mrs. Jay F. Gamel.
military services will be awarded point credits for retirement for the first time at this year's meeting, according to present plans. General arrangements for the silver anniversary meeting have been the responsibility of a committee headed by Commander Frank B. Voris, MC, USN. Colonel Robert J. Benford, USAF (MC) is chairman of the Scientific Program and Exhibits Committee, which has assembled the following group of speakers:

Monday, March 29—Presidential Ballroom

Opening Ceremony—9 A.M.

Scientific Program

Morning Session—9:30 A.M.

The Concept of Aviation Medicine
Capitan Ashton Graybiel, MC, USN
Director of Research, USN School of Aviation Medicine, Pensacola, Florida

Failure of Aeronautical Performance as the Presenting Symptom of Disease
Office of the Surgeon General, Department of the Air Force, Washington, D.C.

Aviation Medicine Progress in Australia over Twenty-Five Years
Air Vice Marshal Edward A. Daley
Director General of Medical Services, Royal Australian Air Force, Melbourne, Australia

The Measurement of Personality Variables by Degree-Relevance
Lt. Comdr. William F. Madden, MSC, USN
Assistant Director of Research, USN School of Aviation Medicine, Pensacola, Florida

The Selection of First Officers for a Commercial Airline
James F. Mussel, M.S.
Trans World Airlines, Inc., Kansas City, Missouri

Studies in the Evaluation of the Personality Characteristics of Successful Naval Aviators
Lt. (jg) Richard Stanley Melton, MSC, USNR
USN School of Aviation Medicine, Pensacola, Florida

In-Flight Feeding During Sustained Flight of Single-Place Jet Aircraft
Colonel Albert W. Van Sickle, USAF (MC)
Tanner Air Force Base, Georgia, and
1st Lt. Richard J. Hogan, USAF
Wright-Patterson Air Force Base, Ohio
FACTORS AFFECTING THE DURATION OF APNEA FOLLOWING
HYPERVENTILATION AT ALTITUDE
F. G. Hall, Ph.D.
Professor of Physiology, Duke University School of Medicine, Durham,
North Carolina

THE EFFECTS OF SIMULATED ALTITUDE ON THE PERIPHERAL
CIRCULATION OF THE DOG
Fred Sunahara, Ph.D., and
Frank Girling, Ph.D.
Defence Research Medical Laboratories, Toronto, Ontario, Canada

VENTILATORY RESPONSE TO OXYGEN BREATHING OF INDIVIDUALS ACCLIMATIZED TO ALTITUDE
John L. Chapin, Ph.D.
University of Colorado School of Medicine, Denver, Colorado

THE STATUS OF AVIATION MEDICINE IN DENMARK
Colonel Helge Smith
Surgeon General, Royal Danish Air Force, Copenhagen, Denmark

SEA WATER DESALINATION
Wing Comdr. J. C. Wickett, RCAF,
Flight Officer D. Soper, RCAF, and
Miss Anne Boyce
RCAF Institute of Aviation Medicine, Toronto, Canada

THE PATHOLOGIC EFFECTS OF EPICYCLIC ACCELERATION
Lt. (jg) Martin Lipkin, MC, USNR
Aviation Medical Acceleration Laboratory, Johnsville, Pennsylvania, and
Herbert L. Ratcliffe, Sc.D.
University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

LINEAR ACCELERATION AS A SURVIVABLE HAZARD IN AVIATION
Edwin Hendler, B.S.,
USN Aero-Medical Equipment Laboratory, Philadelphia, Pennsylvania

ADAPTATION OF CINEFLUOROGRAPHIC AND CINERADIOGRAPHIC EQUIPMENT TO THE HUMAN CENTRIFUGE
Lieutenant Charles H. Fugitt, MSC, USNR
USN Aviation Medical Acceleration Laboratory, Johnsville, Pennsylvania

PHYSIOLOGICAL ASSESSMENT OF POSITIONING FROM SEATED AT 15° TO SUPINE UNDER VARYING ACCELERATIVE STRESS
Captain Charles F. Gell, MC, USN
Director, USN Aviation Medical Acceleration Laboratory, Johnsville, Pennsylvania

February, 1954
Monday, March 29—South American Room

**CAA-AMEA Forum—1:30 P.M.**

**OPENING REMARKS**

Gerald S. Backenstoe, M.D., Chairman, Emmaus, Pennsylvania

**WHAT THE GENERAL PHYSICIAN SHOULD KNOW ABOUT AVIATION MEDICINE**

M. Martyn Kafka, M.D., Forest Hills, Long Island, New York

**FUNCTIONAL DISTURBANCES OF THE EAR, NOSE AND THROAT AS THEY APPLY TO AIRMEN**

Edgar E. Poos, M.D., Detroit, Michigan

**AVIATION AND TEETH WITH SPECIAL REFERENCE TO AERODONTALGIA**

Aris Carposis, M.D., Washington, D. C.

**A RESTRICTED MEDICAL CERTIFICATION FOR CIVILIAN PILOTS**

Thomas A. Coates, M.D., St. Louis, Missouri

**SELECTING THE CIVILIAN FLYER**

William B. Smith, M.D., Chief Flight Surgeon, Connecticut Department of Aeronautics, Wethersfield, Connecticut

**THE AGED AND RETIRING PILOT**

Howard K. Edwards, M.D., Medical Director, Eastern Air Lines, Inc., Miami, Florida

**PANEL—THE AGING PILOT**

John A. Tamisheka, M.D., Chairman, Omaha, Nebraska

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Tuesday, March 30—Presidential Ballroom

**Morning Session—9:00 A.M.**

**DEVELOPMENT OF A PERSONALITY TEST BATTERY FOR PSYCHIATRIC SCREENING OF FLYING PERSONNEL**

Saul B. Sells, Ph.D., USAF School of Aviation Medicine, Randolph Air Force Base, Texas

**STRESS FACTORS AFFECTING COMBAT PILOTS IN KOREA**

Captain Blair W. Sparks, USAF (MSC), USAF School of Aviation Medicine, Randolph Air Force Base, Texas

**UNDERSTANDING THE "FEAR OF FLYING SYNDROME"**

Colonel Lucio E. Gatto, USAF (MC), Consultant in Psychiatry, Far East Air Forces, Tokyo, Japan

**AEROMEDICAL ACCOMPLISHMENTS IN SWEDEN DURING THE PAST QUARTER CENTURY**

Colonel Gustaf Severin

Surgeon General, Royal Swedish Air Force, Stockholm, Sweden
AERO MEDICAL ASSOCIATION

MEDICAL CARE OF AIRLINE PILOT PERSONNEL
K. L. Stratton, M.D.
Medical Director, American Airlines, Inc., Flushing, New York

AEROMEDICAL PROBLEMS OF JET PASSENGER AIRCRAFT
Sir Harold Edward Whittingham
Director of Medical Services, British Overseas Airways Corporation, Brentford, Middlesex, England

PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF EXPLOSIVE DECOMPRESSION
Fred A. Hitchcock, Ph.D.
Clarence R. Cole, Ph.D.
John P. Kemph, M.D.
Donald A. Rosenbaum, M.S., and
Edwin G. Vail, Ph.D.
Department of Physiology, Ohio State University College of Medicine, Columbus, Ohio

EXPLOSIVE DECOMPRESSION IN TRAINING OF CIVILIAN AIR CREWS
Charles I. Barron, M.D.
Medical Director, California Division, Lockheed Aircraft Corporation, and
Thomas J. Cook, Burbank, California

THE EVOLUTION OF ITALIAN AERONAUTICAL MEDICAL THOUGHT DURING THE LAST TWENTY-FIVE YEARS
Colonel Tommaso Lomonaco
Director, Center of Studies and Researches of Aviation Medicine, Italian Air Force, Rome, Italy

Annual Business Meeting Luncheon—12:30 P.M.
Afternoon Session—2:30 P.M.

HUMAN TOLERANCE FOR HIGH TEMPERATURE AIRCRAFT ENVIRONMENTS
Craig L. Taylor, Ph.D.
Professor of Engineering,
J. W. McCutchan, M.S.,
W. V. Blockley, A.B., and
John Lyman, Ph.D.
University of California, Los Angeles, California

STATUS OF VENTILATED GARMENTS FOR HIGH SPEED AIRCRAFT
H. A. Mauch, M.S.
Chief, Environment Section, USAF Aero Medical Laboratory, Wright-Patterson Air Force Base, Ohio

HUMAN FACTORS ASPECTS OF IN-FLIGHT REFUELING
Harry W. Dorris, Jr., B.S.
Glenn L. Martin Company, Baltimore, Maryland

February, 1954
AERO MEDICAL ASSOCIATION

SOME INFLUENCES OF AEROMEDICAL DATA ON AIRCRAFT DESIGN

ALFRED M. MAYO
Chief, Equipment and Interiors Division, Douglas Aircraft Company, El Segundo, California

ENGINEERING FOR CREW SAFETY AND EFFICIENCY IN THE B-52 AIRCRAFT; PROBLEMS IN MATCHING PERFORMANCE REQUIREMENTS OF MACHINE WITH HUMAN TOLERANCES

R. L. LINFORTH, Engineer, B-52 Equipment Group
Boeing Airplane Company, Seattle, Washington

ANALYSIS OF CREW CAPABILITIES DURING TEST FLIGHTS IN THE B-52 AIRCRAFT

LT. COLONEL GUY TOWNSEND, USAF, B-52 Project Officer
Boeing Airplane Company, Seattle, Washington

REQUIREMENTS FOR CREW EFFECTIVENESS IN THE B-52 STRATEGIC BOMBER

COLONEL DON FLICKINGER, USAF (MC)
Asst. Deputy Chief of Staff for Development, Headquarters Air Research and Development Command, Baltimore, Maryland

Wednesday, March 31—Presidential Ballroom

Morning Session—9:00 A.M.

LIMITING FACTORS IN PROTECTING THE EAR FROM NOISE

HENNING E. VON GIERKE, DR.ING.
Assistant Chief, Bio-Acoustics Section, and
SECOND LIEUTENANT DARRELL R. WARREN, USAF
USAF Aero Medical Laboratory, Wright-Patterson Air Force Base, Ohio

NOISE AND VIBRATION CONTROL IN THE AIR FORCE

MAJOR HORACE O. PARRACK, USAF
Chief, Bio-Acoustics Section, USAF Aero Medical Laboratory, Wright-Patterson Air Force Base, Ohio

JET ENGINE AND OTHER NOISE PROBLEMS ABOARD AIRCRAFT CARRIERS

COMMANDER RALPH L. CHRISTY, JR., MC, USN
Senior Medical Officer, USS Franklin D. Roosevelt

THE ACHIEVEMENTS MADE IN AVIATION MEDICINE IN SWITZERLAND DURING THE PAST TWENTY-FIVE YEARS

MAJOR KLAS H. WIESINGER
Chief Flight Surgeon, Swiss Air Force, Dubendorf, Switzerland

HELICOPTER EVACUATION OF BATTLE CASUALTIES IN KOREA

CAPTAIN WARREN F. KLEIN, MC, USN,
Senior Medical Officer, Naval Air Station,
and LIEUTENANT JOHN F. KRAMER, MC, USNR,
U. S. Naval Hospital, Jacksonville, Florida
AERO MEDICAL ASSOCIATION

PRIVATE FLYING—CAN THE ACCIDENT RATE BE REDUCED?
Donaldson W. Kingsley, M.C., Hastings, Nebraska

FURTHER EXPERIENCE WITH THE DETECTION OF ANOXIA IN
FATAL ACCIDENTS
W. R. Franks, M.D.
RCAF Institute of Aviation Medicine, Toronto, Canada, and
C. S. Lennox, B.S.
University of Toronto, Toronto, Canada

AIRCRAFT ACCIDENTS AND NEAR-ACCIDENTS
Captain Richard B. Phillips, MC, USN and
Lt. Commander Robert R. Giblin, USN
Naval Air Station, Glenview, Illinois

AIRCRAFT PERISCOPE FOR PILOTAGE
Lt. Colonel George O. Emerson, USAF (MC)
Chief, Vision Section, USAF Aero Medical Laboratory, Wright-Patterson
Air Force Base, Ohio

Lunch

Afternoon Session—1:30 P.M.

THE ROLE OF THE PROPRIOCEPTIVE SENSES IN THE PERFORMA-
COMMANDER Norman L. Barr, MC, USN
Head, Aviation Medicine Division, Naval Medical Research Institute
Bethesda, Maryland

RED LENS DIPLOPIA AND ITS RELATIONSHIP TO HETERO-
PHORIA
E. Howard Bedrossian, M.D.
Instructor in Ophthalmology, University of Pennsylvania School of Medi-
cine, Philadelphia, Pennsylvania

SPLENIC INFARCTS ASSOCIATED WITH HYPOXIA
Lt. Colonel James P. Jernigan, USAF (MC)
Westover Air Force Base, Massachusetts,
Captain Charles E. Engel, USAF (MC), and
Captain Wesley L. Peterson, USAF (MC)
Francis E. Warren Air Force Base, Wyoming, and
Jack C. Cooley, M.D.
The Mayo Clinic, Rochester, Minnesota

AVIATION MEDICINE IN THAILAND
Air Vice Marshal Chua Punsoni
Surgeon General, Royal Thai Air Force, and
Group Captain Thupaya Nanthusha
Medical Department, Royal Thai Air Force, Bangkok, Thailand
(To be presented by Flight Lieutenant Prasan Daranonada)
ANTI-MALARIAL DRUGS IN FLYING PERSONNEL  
COLONEL WILLIAM R. HAAS, USAF (MC)  
Consultant in Internal Medicine, Office of the Surgeon General, Department of the Air Force, Washington, D. C.

QUANTITATIVE EMISSION SPECTROSCOPY AS A MEANS OF ANALYZING RESPIRATORY GASES  
CLAYTON S. WHITE, M.D.  
STIG J. EKEROOT, and  
WARREN W. LOCKYEAR, M.S.  
Lovelace Foundation for Medical Education and Research, Albuquerque, New Mexico

SOME AEROMEDICAL ASPECTS OF ALL-WEATHER FLIGHT  
COMMANDER SIDNEY I. BRODY, MC, USN  
Medical Liaison Officer, Bureau of Aeronautics, Department of the Navy, Washington, D. C.

Evening Activities—7:00 P.M.

"Honors" Night Dinner—Presidential Ballroom

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