

# Aero Medical Association

## Scientific Program and Schedule of Events for 25th Anniversary Meeting, March 29-31

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.

### SCIENTIFIC EXHIBITS PLANNED

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 Carpousis, 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.

### POINT CREDITS GIVEN

Reserve Medical Corps officers of the

AFRO MEDICAL ASSOCIATION

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

CAPTAIN ASHTON GRAYBIEL, MC, USN

*Director of Research, USN School of Aviation Medicine, Pensacola, Florida*

FAILURE OF AERONAUTICAL PERFORMANCE AS THE PRESENTING SYMPTOM OF DISEASE

LT. COL. HAMILTON B. WEBB, USAF (MC)

*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. MUSSER, 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)

*Turner Air Force Base, Georgia, and*

1ST LT. RICHARD J. HOGAN, USAF

*Wright-Patterson Air Force Base, Ohio*

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Lunch

*Afternoon Session—1:30 P.M.*

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 SUNAITARA, PH.D., and

FRANK GIRLING, PH.D.

*Defence Research Medical Laboratories, Toronto, Ontario, Canada*

VENTILATORY RESPONSE TO OXYGEN BREATHING OF INDI-  
VIDUALS 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 SMITTH

*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 LIPIKIN, 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 AVIA-  
TION

EDWIN HENDLER, B.S.,

*USN Aero-Medical Equipment Laboratory, Philadelphia, Pennsylvania*

ADAPTATION OF CINEFLUOROGRAPHIC AND CINERADIO-  
GRAPHIC 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*

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Monday, March 29—South American Room

*CAA-AMEA Forum—1:30 P.M.*

OPENING REMARKS

GERALD S. BACKENSTOR, 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 CARPOUSIS, M.D., *Washington, D. C.*

A RESTRICTED MEDICAL CERTIFICATION FOR CIVILIAN PILOTS

TITOMAS 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. TAMMSIEA, M.D., *Chairman, Omaha, Nebraska*

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 Général, Royal Swedish Air Force, Stockholm, Sweden*

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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*

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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 KLAUS H. WIESINGER

*Chief Flight Surgeon, Swiss Air Force, Dubendorf, Switzerland*

HELICOPTER EVACUATION OF BATTLE CASUALTIES IN KOREA

CAPTAIN WARREN E. KLEIN, MC, USN,

*Senior Medical Officer, Naval Air Station,*

*and LIEUTENANT JOHN F. TEST, MC, USNR,*

*U. S. Naval Hospital, Jacksonville, Florida*

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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 B. GIBLIN, USN  
*Naval Air Station, Glenview, Illinois*

AIRCRAFT PERISCOPES 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 PER-  
FORMANCE OF INSTRUMENT FLIGHT

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 TIUPAYA NARTISUTHA  
*Medical Department, Royal Thai Air Force, Bangkok, Thailand*  
*(To be presented by FLIGHT LIEUTENANT PRASAN DARANONDA)*

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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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