

The Aero Medical Association

Twenty-second Annual Meeting

Program

HOTEL SHIRLEY-SAVOY, DENVER, COLORADO

May 14, 15 and 16, 1951

THE PROGRAM for the twenty-second annual meeting of the Aero Medical Association and associated organizations is as follows:

Saturday, May 12, 1951

Airline Medical Directors Association. Meetings both morning and afternoon. In the evening, there will be a cocktail party given by the West Company for the members of the Airline Medical Directors Association and their wives. The location of the meeting will be announced later.

Sunday, May 13, 1951

The Airline Medical Directors Association and the Airline Medical Examiners Association will meet both morning and afternoon. The location of the meetings will be announced later.

At noon, the Council of the Aero Medical Association will hold a luncheon meeting.

The Airline Medical Examiners Association will hold its annual banquet in the evening.

Monday, May 14, 1951

The Aero Medical Association will hold scientific sessions both morning and afternoon.

From 3:30 to 5:00 p.m., there will be a cocktail party for the ladies.

Late in the afternoon, the group of Fellows will hold their annual meeting and the meeting will be followed by a dinner for the Fellows.

Tuesday, May 15, 1951

Both morning and afternoon will be devoted to the scientific sessions of the Aero Medical Association.

At noon there will be a luncheon meeting at which the Annual Business Session of the Association will be held.

In the evening the Council of the Association will hold a dinner meeting.

Wednesday, May 16, 1951

Both morning and afternoon will be devoted to the scientific sessions of the Association.

At noon, the Space Medicine Branch will hold a luncheon meeting.

In the evening, the Annual Banquet of the Aero Medical Association will be held.

The Aero Medical Association

Twenty-second Annual Meeting

Scientific Program

MONDAY, MAY 14, 1951

Morning Session

A.M.

- 8:55 Official Opening and Welcome.
COL. A. D. TUTTLE, President of the Aero Medical Association, Chicago, Illinois.
- 9:00 "Comparative Analysis of an Airborne Laboratory Versus the Human Centrifuge."
CDR. CHARLES F. GELL, MC, USN, Naval Air Development Center, Johnsville, Pennsylvania.
- 9:20 "Effects of Temperature Upon Tolerance to Long Term Acceleration."
JAMES P. HENRY, M.D., E. E. MARTIN, and R. U. WHITNEY, Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio.
- 9:40 "Radial Acceleration and the Urinary Output of Supinated Man."
LT. FLOYD R. STAUFFER, MC, USN, Naval School of Aviation Medicine, Pensacola, Florida.
- 10:00 "The Effect of Externally Applied Pressures During Positive Acceleration upon Intracardiac Pressure."
LT. CDR. EDWARD L. BECKMAN, MC, USN, Naval Air Development Center, Johnsville, Pennsylvania.
- 10:20 "Studies with the Epicyclic Centrifuge on Animals and Humans."
DR. CHARLES F. LOMBARD, University of Southern California, Los Angeles, California.
- 10:40 *Intermission for the purpose of viewing Exhibits.*
- 11:10 "Prone Position for Pilots as Assayed by Test Flight."
MR. HANS T. E. HERTZBERG and CAPTAIN PHILIP J. MAHER, JR., USAF Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio.
- 11:30 "High Altitude Escape."
CAPTAIN VINCENT MAZZA, USAF, Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio.
- 11:50 "Navy Program for Aircraft Escape."
CDR. R. D. CHRISTY, JR., MC, USN, Bureau of Aeronautics, Washington, D. C.

TWENTY-SECOND ANNUAL MEETING

Afternoon Session

P.M.

- 2:00 "Noise Problems Associated with Aircraft Maintenance."
HORACE O. PARRACK, Ph.D., and CAPTAIN DONALD H. ELDREDGE, JR.,
USAF (MC), Aero Medical Laboratory, Wright-Patterson Air Force
Base, Dayton, Ohio.
- 2:20 "Acoustic Trauma in Aircraft Maintenance Workers."
MAJOR ELIZABETH GUILD, USAF School of Aviation Medicine, Ran-
dolph Air Force Base, Texas.
- 2:40 "Auditory Perception in Noise."
JUERGEN TONNDORF, M.D., USAF School of Aviation Medicine, Ran-
dolph Air Force Base, Texas.
- 3:00 *Intermission for the purpose of viewing Exhibits.*
- 3:30 Civil Aeronautics and Civil Medical Examiners Forum.
"Orthopedic and Visual Defects in Civil Airmen."
DR. D. M. GILFORD and W. R. STOVALL, M.D., Department of Com-
merce, Civil Aeronautics Administration, Washington, D. C.

TUESDAY, MAY 15, 1951

Morning Session

A.M.

- 9:00 "Rate of Gaseous Nitrogen Elimination Breathing Oxygen at Rest and
With Exercise."
WALTER M. BOOTHBY, A.M., M.D., ULRICH C. LUFT, M.D., and BRUNO
BALKE, M.D., Ph.D., USAF School of Aviation Medicine, Randolph
Air Force Base, Texas.
- 9:20 "Changes in Bone Marrow Pressure During Exposure to Simulated
High Altitude."
M. H. KALSER, M.D., H. K. IVY, M.D., L. PEVSNER, A. C. IVY, M.D.,
Ph.D., and J. P. MARBARGER, University of Illinois, Chicago, Illinois.
- 9:40 "Circulatory Adjustments to Reduced Barometric Pressure."
J. L. LIPIN, M.S., and W. V. WHITEBORN, M.D., University of Illinois,
Chicago, Illinois.
- 10:00 "Visual Aspects of Supersonic Flight."
COL. VICTOR A. BYRNES, USAF (MC), USAF School of Aviation
Medicine, Randolph Air Force Base, Texas.
- 10:20 "Visibility of Aircraft at High Altitude."
CDR. NORMAN L. BARR, MC, USN, Naval Medical Research Institute,
Bethesda, Maryland.

TWENTY-SECOND ANNUAL MEETING

- 10:40 *Intermission for purpose of viewing Exhibits.*
- 11:10 "Analysis of Pilots' Eye Movements in Flight."
1ST LT. JOHN L. MILTON, USAF, Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio.
- 11:30 "Newer Engineering Problems in an Aircraft Factory as Related to Medicine."
MR. WELLWOOD BEALL, Boeing Aircraft Company, Seattle, Washington.
- 11:50 "The Flight Surgeon and Flight Safety."
LT. CDR. WALTON L. JONES, MC, USN, Office of Chief of Naval Operations, Washington, D. C.

Afternoon Session

P.M.

- 2:00 Symposium on "Air Transportability of the Sick and/or Injured."
"Laws and Regulations Concerned in Air Transportation of a Person with an Infectious Disease."
G. L. DUNNAHOO, M.D., Medical Director, Division of Foreign Quarantine, Public Health Service, Washington 25, D. C.
- 2:20 "Flight Comfort and Safety for Patients."
LT. COL. M. B. JOHNSTON, USAF (MC), Military Air Transport Service, Andrews Air Force Base, Washington 25, D. C.
- 2:40 "In Flight Problems in Air Transportation of Patients."
CDR. JOSEPH P. POLLARD, MC, USN, Research and Development Board, Washington, D. C.
- 3:00 "Medical Aspects of Helicopter Air Evacuation."
CDR. M. T. MARTIN, MC, USN, Bureau of Aeronautics, Washington, D. C.
- 3:20 *Intermission for purpose of viewing Exhibits.*
- 3:50 "Evaluation of Systolic Murmurs."
LT. JOHN M. PACKARD, MC, USN, and CAPTAIN ASHTON GRAYBIEL, MC, USN, Naval School of Aviation Medicine, Pensacola, Florida.
- 4:10 "Air Transport of Patients with Cardio Respiratory Diseases."
CDR. HARALD A. SMEDAL, MC, USN, Bureau of Medicine and Surgery, Washington, D. C.
- 4:30 "Effect of Altitude on Simulated Sinus Fractures and Other Conditions Introducing Air into the Skull."
LOUIS E. MOSES, Ph.D., M.D., USAF School of Aviation Medicine, Randolph Air Force Base, Texas.

TWENTY-SECOND ANNUAL MEETING

WEDNESDAY, MAY 16, 1951

Morning Session

A.M.

- 9:00 "Some Aspects of Morbidity Among Service Personnel During War-time."
A. H. SELLERS, M.D., The Institute of Aviation Medicine, RCAF, Toronto, Ontario, Canada
- 9:20 "Aviation Medicine in the Evaluation of New Naval Aircraft."
CDR. PERRY W. GARD USN, and CDR. ROLAND A. BOSEE, USC, USN, Naval Air Test Center, Patuxent River, Maryland
- 9:40 "Photometric Estimation of Blood Content, Pressure, Oxygen Saturation and Cardiac Output Utilizing Oximetry in Man."
EARL H. WOOD, M.D., Mayo Clinic, Rochester, Minnesota
- 10:00 "Man's Tolerance to Pressure Breathing."
WAYLUND E. HULL, Ph.D., Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio
- 10:20 "Observations on Weather-Sensitive Arthritics During Controlled Exposures to Low and High Atmospheric Pressures."
CDR. H. L. JONES, MC, USN, and LT. E. REEVES, MSC, USN, Naval Air Station, San Diego, California
- 10:40 *Intermission for purpose of viewing Exhibits*
- 11:10 "Human Tolerance for High Concentration of CO over Short Periods of Time."
LT. ARTHUR L. HALL, MSC, USN, Naval School of Aviation Medicine, Pensacola, Florida
- 11:30 "The Diurnal Intensity Variation of the Heavy Primaries of Cosmic Radiation and its Consequences for the Hazard to Health in Flight at Extreme Altitudes."
HERMAN J. SCHAEFER, Ph.D., Naval School of Aviation Medicine Pensacola, Florida
- 11:50 "Requirements for Protection Against Thermal Environment Hazards During High Speed Flight."
CAPTAIN D. LINDES, USAF (MC), Aero Medical Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio

Afternoon Session

P.M.

- 2:00 "A Study of the Effect of Cold on Joint Mobility."
DR. JOHN HUNTER, Defense Research Medical Laboratory, Institute of Aviation Medicine, RCAF, Toronto, Canada
- 2:20 "The Prevention of Injuries Due to Crash."
HENRY A. SCHROEDER, M.D., Washington University School of Medicine, St. Louis, Missouri

TWENTY-SECOND ANNUAL MEETING

- 2:40 "Problems of In-Flight Feeding for the Fighter Pilot."
MAJOR WILLIAM E. BILLS, USAF (VC), Aero Medical Laboratory,
Wright-Patterson Air Force Base, Dayton, Ohio
- 3:00 "Personality Research in Aviation Selection."
LT. JOSEPH F. SNYDER, MSC, USN, Bureau of Medicine and Surgery,
Washington, D. C.
- 3:20 *Intermission for purpose of viewing Exhibits*
- 3:40 "The Visual Link Test in the Selection of Aircrew in the RCAF."
DR. A. C. BURT and DR. E. P. SLOAN, Institute of Aviation Medicine,
RCAF, Toronto, Ontario, Canada
- 4:00 "Recent Navy Aero Medical Equipment Developments."
LT. CDR. M. D. COURTNEY, MC, USN, Naval Air Material Center, Phila-
delphia, Pennsylvania
- 4:20 "Further Studies on the Etiology of Motion Sickness."
W. H. JOHNSON, R. A. STUBBS, and C. C. GOTLIEB, Institute of Avia-
tion Medicine, Toronto, Canada
- 4:40 "Further Studies on Airsickness Preventives."
H. I. CHINN, Ph.D., COL. O. H. WALTRIP, USAF (MC), and MAJOR
H. W. MASSENGALE, USAF, USAF School of Aviation Medicine,
Randolph Air Force Base, Texas

PAPERS TO BE READ BY TITLE

1. "Influence of the Oxygen-Lack on the Functional Cortical Fitness."
PROFESSOR J. MALMEJAC, University of Algiers, Algeria, North Africa
2. "Treatment of Water Supplies for Aircraft."
SIR HAROLD E. WHITTINGHAM, Director of Medical Services, British Over-
seas Airways, London, England
3. "Standardization of Terminology and Analytical Procedures in Accelera-
tion Studies."
FREDERICK DIXON, M.S., and JOHN L. PATTERSON, M.D., Emory Univer-
sity Medical School, Georgia
4. "L'action paradoxale de l'oxygene."
DR. ROBERT GRANDPIERRE and DR. CLAUDE FRANCK, University of Nancy,
Nancy, France
5. "L'efficacite de l'adrenaline au cours de l'anoxemie."
DR. ROBERT GRANDPIERRE, DR. CLAUDE FRANCK and DR. R. R. LEMARIE,
University of Nancy, Nancy, France