

# Aero Medical Association

## Scientific Program and Special Events

Los Angeles, May 11-13, 1953

**T**HE NEWEST developments in aviation medicine, the significant problem of the aging commercial pilot and discussion of the recent attainment of specialty board certification promise to make the twenty-third annual meeting of the Aero Medical Association at the Biltmore Hotel in Los Angeles, May 11, 12 and 13, an outstanding event. Final arrangements have been completed by the various committees that have been appointed by President W. R. Stovall. Among the many features is an "Hawaiian Holiday and Forum" in Honolulu following the California meeting. Dr. Clarence W. Trexler, 65 Young Building, Honolulu, T. H., will be in charge of the scientific meeting in Honolulu.

Dr. Raymond B. Allen, chancellor of the University of California at Los Angeles, will give the principal address at the traditional banquet of the Association on Wednesday evening, May 13. A prominent physician and educator, Dr. Allen was the first director of the Medical Services Division in the Office of the Secretary of Defense which was the predecessor of the present Medical Policy Council. He left this position in 1949 to return to the presidency of the University of Washington.

The Arrangements Committee for the 1953 meeting is ably headed by Francis C. Hertzog, M.D., of Los An-

geles, and the Scientific Exhibits Committee is under the experienced chairmanship of Capt. John R. Poppen, USN (Ret.), of Northridge, California. As is customary, the Airline Medical Directors Association and the Airline Medical Examiners Association will hold their annual meetings over the weekend preceding the opening of the scientific sessions of the Aero Medical Association on Monday, May 11. Mr. William T. Piper, President of the Piper Aircraft Company, will be the guest speaker at the dinner of the examiners' group. The entertainment program for the Wives' Wing of the Association is being arranged by Mrs. Francis C. Hertzog, vice president of the auxiliary, with the assistance of a local group of members. The annual Fellows' Dinner will be held on Tuesday evening, May 12, and the business meeting will be conducted at a luncheon on the same day.

The scientific program has been planned and organized by a committee under the chairmanship of Barry G. King, Ph.D., Washington, D. C. One of its important features is a Symposium on Pilot Aging with Dr. John A. Tamisiea of Omaha acting as moderator. The tentative list of speakers and the titles of their papers follow:

"Studies in Motivation of Student Aviators at the Naval School of Aviation Medicine." JOHN T. BAIR, Ph.D., and Lt. (j.g.) EDWIN P. HOLLANDER, (MSC)

## SCIENTIFIC PROGRAM AND SPECIAL EVENTS

- USN, US Naval Air Station, Pensacola, Florida.
- "Some Observations on Human Tolerance to Accelerative Stress. Part II: Preliminary Studies on Primates Subjected to 40 G." LT. COMDR. EDW. L. BECKMAN, (MC) USN, LT. T. D. DUANE, (MC) USNR, LT. J. E. ZIEGLER, (MC) USN, and HUGH W. HUNTER, Ph.D., Naval Air Development Center, Johnsville, Pa.
- "A New Device for Measuring the Effects of Continuous Positive Pressure Breathing on Lung Volumes and Ventilation." 1st Lt. A. L. L. BELL, USAF (MC) and CAPT. JAMES E. WOOD, USAF (MC), Randolph Air Force Base, Texas.
- "The Operational Hazard of Microwave Radiation." COMDR. SIDNEY I. BRODY, (MC) USN, Washington, D. C.
- "The Assessment of Visual Distortion Through Aircraft Transparencies." FRED R. BROWN, B.S., and DAVID ALSHER, B.S., USN Aeronautical Medical Equipment Laboratory, Philadelphia, Pa.
- "The Effect of High Breathing Pressure on Cardiac Output with and without Counter Pressure." LT. COL. CLARENCE C. CAIN, USAF, MAJ. D. I. MAHONEY, USAF (MC) and JOHN A. WOOD, Ph.D., Wright-Patterson Air Force Base, Ohio.
- "Fractured Vertebrae in Aircraft Accidents." Lt. (j.g.) JOHN P. CHARLES, (MSC) USNR, US Naval Air Station, Norfolk, Va.
- "Fascination as Experienced by Naval Flight Students." COMDR. BRANT CLARK, (MSC) USNR, MARJORIE A. NICHOLSON, A.B., and CAPT. ASTON GRAYBIEL, (MC) USN, US Naval Air Station, Pensacola, Florida.
- "A Factorial Study of Integration." B. K. DOANE, Ottawa, Canada.
- "The Physiological Recognition of Strain Associated with Flying." LT. COL. THADDEUS J. DOMANSKI, USAF (MSC), and LT. COL. JAMES B. NUTTALL, USAF (MC), Randolph Air Force Base, Texas.
- "A Plea for the Inclusion of the Cover Test for Heterophoria in Routine Flight Physical Examinations." LT. T. D. DUANE, (MC) USNR, Naval Air Development Center, Johnsville, Pa.
- "Some Observations on Human Tolerance to Accelerative Stress. Part III: Human Studies of Fifteen Transverse G." LT. T. D. DUANE, (MC) USNR, LT. J. F. ZIEGLER, (MC) USN, HUGH W. HUNTER, Ph.D., and LT. COMDR. EDW. L. BECKMAN, (MC) USN, Naval Air Development Center, Johnsville, Pa.
- "The Effect of Monocular Blind Areas on Visibility from Aircraft." LT. COL. GEORGE O. EMERSON, USAF (MC), Wright-Patterson Air Force Base, Ohio.
- "The Post-Mortem Detection of Anoxia as a Cause of Fatal Accidents." W. R. FRANKS, M.D., and T. SHIMIZU, Toronto, Canada.
- "Study of Derangements of Function in Small Animals from Imposed Accelerative Stress Utilizing a Quick Freeze Technique." COMDR. CHARLES F. GELL, (MC) USN, Naval Air Development Center, Johnsville, Pa.
- "Peripheral Circulation and Simulated Altitude." F. GIRLING and C. MAHEUX, Ottawa, Canada.
- "Pressure Breathing and the Circulation." F. GIRLING and C. MAHEUX, Ottawa, Canada.
- "The Design of Continuous Wear Anti-Exposure Clothing." E. L. HAYS, Ph.D., USN Aeronautical Medical Equipment Laboratory, Philadelphia, Pa.
- "Some Observations on Human Tolerance to Accelerative Stress. Part I: Performance Specifications of a Device for Study of Human Tolerance to High G." HUGH W. HUNTER, Ph.D., Naval Air Development Center, Johnsville, Pa.
- "Typical Impacts of Jet Aircraft Land Crashes." LT. COMDR. WALTON L. JONES, (MC) USN, Washington, D. C.

## SCIENTIFIC PROGRAM AND SPECIAL EVENTS

- "Absorption and Toxicity of Methyl Bromide." ALFRED U. JORDI, M.D., Zurich, Switzerland.
- "Electrocardiography in the Selection of RCAF Aircrew." WING COMDR. G. W. MANNING, RCAF, New London, Canada.
- "Aerodynamic Effects on Cabin Altitudes." FLT. LT. E. G. D. MAYNARD, RCAF, Toronto, Canada.
- "Physiological Changes in the Sense Organs with the Aging Process." ROSS A. McFARLAND, Ph.D., Boston, Massachusetts.
- "Reduction of Aircraft Engine Noise Hazards." E. S. MENDELSON, A.B., Human Engineering Division, Philadelphia, Pa.
- "A Factorial Study of Closure." C. M. MOONEY, Ottawa, Canada.
- "Aviation Safety and the Flight Surgeon." LT. COL. JAMES B. NUTTALL, USAF (MC), Randolph Air Force Base, Texas.
- "The U. S. Air Force Noise and Vibration Control Program." MAJ. HORACE O. PAR-RACK, USAF, Wright-Patterson Air Force Base, Dayton, Ohio.
- "The Effects of Drugs upon Psychological Efficiency." MAJ. ROBERT B. PAYNE, USAF (MSC), Randolph Air Force Base, Texas.
- "Aeromedical Problems of Aircraft Propulsion." LT. COL. JOHN E. PICKERING, USAF, Randolph Air Force Base, Texas.
- "Mechanism of Dizziness and Syncope." EDGAR E. POOS, M.D., Detroit, Michigan.
- "The Importance and Relation of Preventive Medicine to Aviation Medicine." LT. COL. JOHN RIZZOLO, USAF (MC), Gunter Air Force Base, Alabama.
- "Escape from Aircraft by Downward Ejection." CAPT. WALTER S. ROTHWELL, USAF (MC) and 1ST LT. EDWARD G. SPERRY, USAF, Wright-Patterson Air Force Base, Ohio.
- "Theory of Protection of Man in the Region of the Primary Cosmic Radiation." H. J. SCHAEFER, Ph.D., US Naval Air Station, Pensacola, Florida.
- "The Hemodynamic Response to Pressurization of the Lower Half of the Body in Man at 1 G." CAPT. OWEN L. SLAUGHTER, USAF (MC), Naval Air Development Center, Johnsville, Pa.
- "Tolerance and Survival Limits for Linear Deceleration." LT. COL. JOHN P. STAPP, USAF (MC) and CAPT. PAUL G. WINQUIST, USAF (MC), Wright-Patterson Air Force Base, Ohio.
- "Dynamic Trials of Anti-G Valves." SQ. LDR. R. A. STUBBS, RCAF, Toronto, Canada.
- "Determination of Centers of Gravity of Man." J. J. SWEARINGEN, M.S., Oklahoma City, Oklahoma.
- "Animal and Human Reactions to Rapid Tumbling." CAPT. HAROLD S. WEISS, USAF, CAPT. ROBERT E. EDELBERG, USAF, and 1ST LT. PAUL V. CHARLAND, USAF, Wright-Patterson Air Force Base, Ohio.
- "Limitations of Cabin Pressurization." WING COMDR. J. C. WICKETT, RCAF and SQ. LDR. R. A. STUBBS, RCAF, Toronto, Canada.
- "RCAF Operation Calorie." WING COMDR. J. C. WICKETT, RCAF, and J. Q. BLISS, Toronto, Canada.
- "Results of In-Flight Testing of the School of Aviation Medicine Portable Respirator on Poliomyelitic Patients." SYRREL S. WILKS, Ph.D., and CAPT. JOSEPH F. TOMASHEFSKI, USAF (MC), Randolph Air Force Base, Texas.
- "RCAF Para Rescue Organization." SQ. LDR. J. R. W. WYNNE, RCAF, Comox, Canada.
- "Some Observations on Human Tolerance to Accelerative Stress. Part IV: Human Studies of 15 Positive G." LT. J. E. ZIEGLER (MC), USN, LT. T. D. DUANE (MC), USNR, HUGH W. HUNTER, Ph.D., and LT. COMDR. EDW. L. BECKMAN (MC) USN, Naval Air Development Center, Johnsville, Pa.
- "Electroencephalographic Changes Produced by Acceleration." LT. J. E. ZIEGLER (MC), USN, Naval Air Development Center, Johnsville, Pa.