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Oak Ridge Institute of Nuclear Studies
Medical Division

FOLDER M-5

SYMPOSIUM IN MEDICINE NO. 8
October 21 - 25, 1963

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DYNAMIC CLINICAL STUDIES WITH RADIOISOTOPES

Co-Chairmen: Ralph M. Kniseley, ORINS, and W. Newlon Tauxe, Mayo Clinic

(Sessions will be held at the Oak Ridge Playhouse, Jackson Square, Oak Ridge.)

MONDAY, October 21

- 9:00 Greetings Herman M. Roth, Oak Ridge, AEC
Wm G. Pollard, ORINS
- 9:15 Opening Remarks Wm W. Burr, AEC Division of
Biology & Medicine, Washington, D.C.

Session Chairman: Gould A. Andrews

- 9:30 "Kinetic Theory" Per-Erik E. Bergner, Karolinska
Institutet, Stockholm, Sweden
- 10:15 Coffee Break
- 10:45 "Instrumentation and Data Storage
in Kinetic Clinical Procedures" Alan L. Orvis, Mayo Clinic,
Rochester, Minnesota
- 11:30 Discussion C. Craig Harris, Oak Ridge
National Laboratory
- 12:00 LUNCHEON

Session Chairman: W. Newlon Tauxe

- 2:00 "Cerebral Blood Flow Measured
with Radioisotopes" Louis Sokoloff, National Institute of
Mental Health, Bethesda, Maryland
- 2:45 "Clinical Evaluation of Radioisotope-
rheoencephalography" Cesare Fieschi, University of Genoa,
Genoa, Italy
- 3:30 Break
- 4:00 "Measurement of Cephalic and Cerebral
Blood Flow; Basic Considerations of
Single Injection Technique" Leo A. Sapirstein
Stanford University
Palo Alto, California
- 4:45 Discussion
- 8:00 RECEPTION - American Museum of Atomic Energy

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Human Studies Project

TUESDAY, October 22

Session Chairman: Beecher W. Sitterson

- 9:00 "Hepatic Blood Flow and Reticuloendothelial Function with Radioactive Colloids" George V. Taplin, University of California Medical Center, Los Angeles, California
- 9:45 "Liver Function with External Probe and Arm Counter Using Rose Bengal" C. C. Lushbaugh, ORINS Medical Division
- 10:30 Coffee Break
- 11:00 "Measuring Hepatic Blood Flow with Radioisotopic Agents" Sheila Sherlock, The Royal Free Hospital, London, England
- 11:45 Discussion
- 12:00 LUNCHEON

Session Chairman: George V. Taplin

- 2:00 "Computer Application to Evaluation of Dynamic Biological Processes" Eugene Ackerman, Mayo Clinic Rochester, Minnesota
- 2:45 "Clinical Evaluation of Hippuran Renogram" W. Newlon Tauxe, Mayo Clinic Rochester, Minnesota
- BREAK
- 4:00 "Differential Renal Function as Measured by Hg-197 Neohydrin Uptake and Scan" Bruce Sodee, Walter Reed Medical Center, Washington, D.C.
- 4:45 Discussion
- 7:30 - 9:00 P. M. - OPEN HOUSE - Medical Division - Vance Road

WEDNESDAY, October 23

Session Chairman: C. C. Lushbaugh

- 9:00 "Studies with Insulin I-131" Rosalyn S. Yalow, Veterans Administration Hospital, Bronx, New York
- 9:45 "Distribution and Metabolic Rates of Liver-Produced Plasma Proteins in Man" A. S. McFarlane, National Institute for Medical Research, London, England
- 10:30 Coffee Break
- 11:00 "Copper Turnover in Normal Man and in Wilson's Disease" Charles A. Owen, Mayo Clinic Rochester, Minnesota
- 11:45 Discussion
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12:00 LUNCHEON

Session Chairman: William W. Burr

- 2:00 "Krypton and Xenon in Blood Flow Measurements" Henry N. Wagner, Johns Hopkins Hospital, Baltimore, Maryland
- 2:45 "Cardiac Output" L. Donato, University of Pisa, Pisa, Italy
- 3:30 BREAK
- 4:00 "Kinetics of Albumin in Human Beings" E. B. Reeve, University of Colorado, Dept. of Medicine, Denver, Colorado
- 4:45 Discussion

THURSDAY, October 24

Session Chairman: Charles A. Owen

- 9:00 "Liver Concentration of Thyroid Metabolites" E. Eric Pochin, University College Hospital Medical School, London, England
- 9:45 "Magnesium Turnover in Man" Jerry K. Aikawa, University of Colorado Medical Center, Denver
- 10:30 Coffee Break
- 11:00 "The Turnover of Vitamin B-12 in Man" Robert M. Heyssel, Vanderbilt University, Nashville, Tennessee
- 11:45 Discussion
- 12:00 LUNCHEON

Session Chairman: Leo Meyer

- 2:00 "Iron Turnover Studies in Man" David C. Price, Toronto General Hospital, Toronto, Canada
- 2:45 "Calcium Turnover Studies in Man" Karin R. Corey, Sloan-Kettering Institute for Cancer Research, New York, New York
- 3:30 BREAK
- 4:00 "Rate of Oxidation of Carbon-14-Labeled Substrates to $C^{14}O_2$ in Patients: Techniques and Applications" Bert M. Tolbert, University of Colorado, Boulder, Colorado
- 4:45 Discussion

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