

**Fifth Annual Meeting  
Southeastern Chapter  
SOCIETY OF NUCLEAR MEDICINE**

**THURSDAY, OCTOBER 22**

**SYMPOSIUM**

**ULTRASONIC AND RADIOISOTOPE SCANNING**

A symposium presented by the Southeastern Section of the Society of Nuclear Medicine at their Fifth Annual Chapter Meeting.  
Academy of Medicine, Atlanta, Georgia

**MORNING SESSION**

9:00 A.M. Welcome by Chapter President, JAMES C. COBERLY, Atlanta, Georgia  
Introductory Remarks by Symposium Coordinator—JOHN R. MC-LAREN, Atlanta, Georgia  
Ultrasonical Physics—ROBERT H. ROHRER, Atlanta, Georgia  
Generation and Reception of Ultrasound for Medical Purposes—WILLIAM B. MILLER, Atlanta, Georgia

**METHODS FOR LOCALIZING INFORMATION**

Radioisotopes—HENRY N. WAGNER, JR., Baltimore, Maryland  
Ultrasonics—DOUGLAS H. HOWRY, Boston, Massachusetts

**INTERMISSION**

**PROCESSING OF INFORMATION**

Radioisotopes—Collimation and Spectrometry—C. CRAIG HARRIS, Oak Ridge, Tennessee  
Ultrasonics—Elimination of "Noise" Extraneous Echoes, etc.—DOUGLASS H. HOWRY

**RECORDING OF INFORMATION FOR CLINICAL USE**

Radioisotopes—MERRILL A. BENDER, Buffalo, New York  
Ultrasonics—DOUGLASS H. HOWRY.  
Movie—Medical Uses of Ultrasonics

**QUESTION AND ANSWER SESSION**

**AFTERNOON SESSION**

**CLINICAL APPLICATIONS**

Moderator—JACK K. GOODRICH, Jackson, Mississippi  
1:30 P.M. Applications of Ultrasonics in Physical Medicine—RICHARD T. ATKINS, Atlanta, Georgia

**Diagnosing Brain Lesions with Ultrasonics and Radioisotopes—ALBERT J. GILSON, Miami, Florida**

**Radioisotope Scanning of the Cardio-respiratory System—JAMES DOBBS, Miami, Florida**

**Liver and Pancreas Scanning with Radioisotopes—MERRILL A. BENDER**

**BREAK**

**Sonography of Abdominal Organs and Heart—DOUGLASS H. The Radioisotope Renal Scan—JOSEPH L. IZENSTARK, Atlanta, Georgia**

**Techniques and Results of Splenic Scanning with Radioisotopes—HENRY N. WAGNER, JR.**

**Gynecological Application of Radioisotopes—ALBERT J. GILSON**

**QUESTION AND ANSWER SESSION**

**FRIDAY, OCTOBER 23, SCIENTIFIC PROGRAM**

**8:00 A.M.—Registration**

**9:00 A.M.—President Coberly's Address**

**9:10 A.M. IS THE VENOUS HEMATOCRIT PROPORTIONAL TO THE TOTAL CIRCULATION HEMATOCRIT?**

**OSCAR KANNER and EDGAR A. HINES (V. A. Hospital, Oteen, North Carolina)**

**9:30 A.M. CARDIOVASCULAR EFFECTS FOLLOWING GAMMA IRRADIATION OF THE HEART**

**VERNON S. BISHOP and H. L. STONE (Texas A & M University College Station, Texas)**

**9:50 A.M. VENTRICULAR FUNCTION IN CONSCIOUS ANIMALS FOLLOWING HEART IRRADIATION**

**H. L. STONE, VERNON S. BISHOP and ARTHUR C. GUYTON (University Mississippi Medical Center, Jackson, Mississippi)**

**10:10 A.M. Discussion of Scientific Papers**

**10:15 A.M. Coffee Break—Visit exhibits**

**10:35 A.M. Invited Paper—RADIOACTIVE PHARMACEUTICALS**

**H. N. WAGNER, JR. (The Johns Hopkins Hospital, Baltimore, Maryland)**

**11:00 A.M. Business Meeting**

**11:30 A.M. Lunch**

- 1:00 P.M. Panel—WHAT IS THE IMPORTANCE OF DOSIMETRY OF INTERNALLY ADMINISTERED EMITTERS?  
*Moderator:* ROBERT ROHRER—Emory University  
*Panelists:* Karl Z. Morgan, Director, Health Physics Division, ORNL, Henry N. Wagner, Jr. and C. Craig Harris
- 2:30 P.M. PITFALLS IN BRAIN SCANNING  
W. LAMAR HARRELL, JOSEPH L. IZENSTARK and H. S. WEENS (Grady Memorial Hospital & Emory University School of Medicine, Atlanta, Georgia)
- 2:50 P.M. ANALYSIS OF MERCURY BRAIN SCAN PATTERNS  
C. H. SMITH, J. BRYSKI and JOSEPH L. IZENSTARK (Grady Memorial Hospital & Emory University School of Medicine, Atlanta, Georgia)
- 3:10 P.M. BRAIN SCANNING IN NON-NEOPLASTIC INTRACRANIAL LESIONS  
ALBERT J. GILSON (University of Miami School of Medicine Jackson Memorial Hospital, Miami, Florida)
- 3:30 P.M. Invited Paper—COMPARISON OF HG 197 and HG 203 CHLOROMERODRIN IN CLINICAL BRAIN SCANNING  
M. C. OVERTON, W. K. OTTE, L. B. BEENTJES and T. P. HAYNIE (University of Texas Medical Center, Galveston, Texas)
- 3:50 P.M. Discussion
- 4:05 P.M. Coffee Break
- 4:20 P.M. Invited Paper—THE DIGITAL AUTOFLUOROSCOPE  
M. BENDER and MONTE BLAU (Roswell Park Memorial Hospital, Buffalo, New York)
- 4:45 P.M. Invited Paper—I<sup>o</sup> H.S.A. STUDIES OF RHEUMATOID KNEES  
WILLIAM MAXFIELD, THOMAS E. WEISS, PAUL MURISON and JOHN HIDALGO.  
Exhibit also presented (Ochsner Foundation Hospital, New Orleans, Louisiana)
- 5:05 P.M. A COLLIMATOR FOR SCANNING WITH LOW-ENERGY PHOTONS  
C. C. HARRIS, J. C. JORDAN, M. M. SATTERFIELD, JACK K. GOODRICH (Oak Ridge National Laboratory & University of Mississippi Medical Center)
- 5:29 P.M. CLINICAL APPLICATIONS OF LOW ENERGY-HIGH TRANSMISSION COLLIMATOR.  
JACK K. GOODRICH, H. L. STONE, REBECCA W. HILL and C. C. HARRIS (University of Mississippi Medical Center and Oak Ridge National Laboratory)
- 5:35 P.M. Discussion and Dismiss

## SATURDAY, OCTOBER 24

## SESSION A

- 9:00 **A METHOD FOR COMPARING COLLIMATOR SYSTEMS APPLIED TO EXTERNAL COUNTING OF CHROMIUM-51 IN THE SPLEEN**  
**BILL NELSON, V. POSHAYACHINDA**  
**and M. WASANASOMSITHI**  
**(ORINS Medical Division**  
**Oak Ridge, Tennessee)**
- 9:20 **A NEW COUNTER FOR LARGE RADIOACTIVE SAMPLES**  
**WILLIAM D. GIBBS &**  
**C. C. LUSHBAUGH**  
**(ORINS Medical Division**  
**Oak Ridge, Tennessee)**
- 9:40 **SCANNING OF BONE MARROW IN ANIMALS**  
**GRANVIL C. KYKER and JOHN**  
**RAFTER**  
**(ORINS Medical Division**  
**Oak Ridge, Tennessee)**
- 10:00 **CLINICAL USEFULNESS OF IODINE-130 IN SERIAL TRACER STUDIES IN PATIENTS WITH FUNCTIONING THYROID CANCER**  
**PETER PFANNENSTIEL and B. W.**  
**SITTERSON (ORINS Medical Division**  
**Oak Ridge, Tennessee)**
- 10:20 **Coffee Break—Visit exhibits**
- 10:35 **Panel—THE NEW ISOTOPE UNIT—PROBLEMS AND SOLUTIONS**  
**Moderator:** Carl Nurnberger (Department of Radiology, Baptist Memorial Hospital, Memphis, Tennessee)  
**Panelists:** Ernest Proctor (Newman, Georgia)  
 Alys Lipscomb (Memphis, Tennessee)  
 Doug Ross (ORNL, Oak Ridge, Tennessee)
- 11:45 **Discussion—Dismiss**

## SESSION B

- LOCALIZATION OF SULFUR-35-LABELLED SULFANILIC ACIDS OF FLUORENE IN TUMORS**  
**FRANCIS E. RAY AND DIRSHNA C.**  
**AGRAWAL**  
**(J. Hillis Miller Health Center**  
**Gainesville, Florida)**
- RADIATION EFFECTS ON TISSUE UPTAKE AND PROTEIN INCORPORATION OF C 14-UL-L-LEUCINE IN THE RAT**  
**AARON P. SANDERS, GEORGE J.**  
**BAYLIN, P. J. CAVANAUGH,**  
**(Duke University Medical Center,**  
**Durham, North Carolina)**
- STUDIES ON RETENTION & DISTRIBUTION OF DIAGNOSTIC & THERAPEUTIC DOSES OF I<sup>131</sup> IN PATIENTS WITH THYROID CARCINOMA**  
**FELIX PIRCHER AND THOMAS**  
**BUFFALO**  
**(Duke University Medical Center,**  
**Durham, North Carolina)**
- THE USE OF SPATIAL INTEGRATION IN LIVER PHOTOSCANNING**  
**ARTHUR F. DRATZ, JAMES C.**  
**COBERLY (V. A. Hospital, Atlanta,**  
**Georgia)**