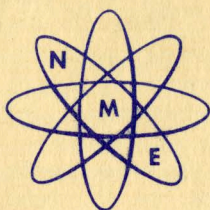


SECOND ANNUAL JOINT
IRE-AIEE CONFERENCE

ON ELECTRONIC INSTRUMENTATION
IN NUCLEONICS AND
MEDICINE



AND

**NUCLEONIC
MANUFACTURERS
EXHIBIT**

HOTEL COMMODORE, NEW YORK, N.Y.

OCTOBER 31, NOVEMBER 1-2 1949

PROGRAM for the SECOND ANNUAL JOINT IRE-AIEE CONFERENCE on ELECTRONIC INSTRUMENTATION in NUCLEONICS and MEDICINE

MONDAY, OCTOBER 31

Presiding: Mr. J. G. Reid, Jr., Bureau of Standards

9:00 A.M. Registration — West Ballroom Entrance
— Hotel Commodore

10:00 A.M. Morning Session

Low Frequency Spectrography: Some applications in Physiological Research, by Mr. Robert Riesz, Bell Telephone Laboratories

High Fidelity Electrocardiography, by Mr. S. R. Gilford, National Bureau of Standards

Electrical Methods of Blood-pressure Recording, by Mr. Frank Noble, College of Electrical Engineering, Cornell University, Ithaca, N. Y.

Discussion by Professor William C. Ballard, College of Electrical Engineering, Cornell University, Ithaca, N. Y.

2:00 P.M. Afternoon Session

Stable D-C Amplifier for Biological Recording, by Dr. Harry Grundfest, College of Physicians and Surgeons, Columbia University

Design of Cathode-Ray Oscillographs for Biological Applications, by Dr. W. A. Geohegan, Cornell University Medical College, New York City

A 25-Channel Recorder for Mapping Cortical Potential Fields, by Dr. John Lilly, Johnson Foundation, Philadelphia

TUESDAY, NOVEMBER 1

Presiding: Dr. G. W. Dunlap, General Electric, Schenectady

10:00 A.M. Morning Session

Medical Application of Ionizing Radiation, by Dr. Edith Quimby, Radiological Research Laboratory, Columbia University

Dosage Measurements of Ionizing Radiation, by Dr. G. Failla, Radiological Research Laboratory, Columbia University

Automatic Iso-dose Recorder, by Dr. G. J. Hine, Sloan-Kettering Institute, New York

2:00 P.M. Afternoon Session

Measurement of Low Energy Beta Ray Emitters: Ionization Chambers, by Mr. Norman Baily, Radiological Research Laboratory, Columbia University

Proportional Counters, by Dr. C. J. Borkowski, Oak Ridge National Laboratory

Internal Gas Counting of C¹⁴ and H³ by Dr. M. L. Eidinoff, Queens College and the Sloan-Kettering Institute for Cancer Research, New York

TUESDAY, NOVEMBER 1 (Continued)

Afternoon Session (Continued)

Small Geiger Counters for Biological Applications, by Dr. Charles V. Robinson, Harvard Medical School, Boston

8:00 P.M. Evening Session

A Round-Table Discussion on "Evaluation of Radiation Hazards" by a four-man panel of scientific experts including Mr. A. L. Baker, Vice President of the Kellogg Corp., Dr. Ralph E. Lapp, prominent author and formerly of the Office of Naval Research; Admiral W. S. Parsons of the National Military Establishment, and Dr. Shields Warren, Director of the Atomic Energy Commission's Division of Biology and Medicine. Prof. J. R. Dunning, of Columbia University, will act as moderator.

Mr. Lewis L. Strauss, member of the Atomic Energy Commission will deliver an address following the Round-Table Discussion.

WEDNESDAY, NOVEMBER 2

Presiding: Dr. Harner Selvidge, Bendix Aviation Corporation, Detroit

10:00 A.M. Morning Session

Scintillation Counter Spectrometer, by Mr. P. R. Bell, Oak Ridge National Laboratory

The Electron Statistics of Scintillation Counting, by Dr. G. A. Morton, RCA Laboratories, Princeton

Phosphors for Scintillation Counters, by Mr. R. H. Gillette, Linde Air Products Laboratories, Tonawanda, N. Y.

Solids for Radiation Detection, by Dr. R. M. Lichtenstein, General Electric Laboratory, Schenectady

2:00 P.M. Afternoon Session

Some Design Features of Electrical Counting Systems, by Mr. N. F. Moody, National Research Council of Canada, Atomic Energy Project

Desirable Improvements in Nuclear Instruments, by Dr. J. B. H. Kuper, Brookhaven National Laboratory

Criteria in the Selection of Radioisotopes for Industrial Use, by Dr. Eric Clark, Tracerlab, Boston

**SECOND ANNUAL JOINT IRE-AIEE CONFERENCE
on
ELECTRONICS in NUCLEONICS AND MEDICINE**

Again this year several committees of the Institute of Radio Engineers and the American Institute of Electrical Engineers have arranged a conference on Electronic Instrumentation in Nucleonics and Medicine to be held on October 31, November 1 and 2, 1949. This year, the conference will be held in the West Ball Room of the Hotel Commodore. The first day of the program is devoted to the non-nucleonic phases of electronics in medicine, the second day concerns nucleonics in medicine, and the last day's program covers nucleonic development in industry and government laboratories.

In addition to the interesting papers outlined in this pamphlet, there will be a special evening session featuring a round table discussion of radiation hazards with Prof. J. R. Dunning of Columbia University as moderator. Also a trip has been planned to the Brookhaven National Laboratory for those interested.

For the first time this year, there will be a large exhibit sponsored by many manufacturers of nucleonic equipment and components. It is hoped that this conference will offer an opportunity for all those associated with the field to meet, get up-to-date news on development, and to exchange ideas. This will be the first official meeting of the Professional group on Nuclear Science of the Institute of Radio Engineers.

Published proceedings of the conference will be available in the near future. A saving of \$.50 may be had by ordering in advance (see registration card). If ordered at the conference, price will be \$3.50.

CONFERENCE REGISTRATION

To facilitate registration of those attending the Conference and Exhibit, advance registration by mail is urged. Advance registrants will gain the benefits of a reduced fee of \$3.00 and arrangements will be made to gain them quick access to the Conference. Advance registrations should be mailed to W. F. Davidson, Institute of Radio Engineers, 1 East 79 St., New York 21, New York, using the enclosed business reply envelope. Include a check or money order with your registration card.

The Registration Desk will be located in the West Foyer of the Hotel Commodore and will open at 9:00 a.m. each morning of the Conference. The registration fee after the start of the Conference will be \$4.00. Advance registrations by mail cannot be accepted after Oct. 25.

BROOKHAVEN VISIT

As an extra feature, arrangements have been made with the Brookhaven National Laboratory to take a group of not over 100 on an inspection trip of their facilities. This all day trip will be made on Thursday, November 3rd, leaving Pennsylvania Station at 8:30 a.m., and will include inspection of the cyclotron, Van de Graaff generator, proton synchrotron, electronics laboratory, etc. Physicians may be taken through the biological laboratory instead of the electronics laboratory. The cost of the Brookhaven inspection trip is \$5.50, which includes round trip rail fare and luncheon. In view of the limited size of the group, early registration for this trip is suggested.

NUCLEONIC MANUFACTURERS EXHIBIT

Parlors A, B, and C immediately adjacent to the Registration Desk in the West Foyer are reserved for Exhibits. This exhibit represents the largest of its kind to date. A list of exhibitors appears on the back of this folder. Exhibits will feature the latest nucleonic instrumentation for the laboratory, field and industry. This exhibit will not be open on the first day of the conference since the subject matter of the talks does not concern nucleonics.

HOTEL RESERVATIONS

The Hotel Commodore has allocated some space for those attending the Conference. Reservations should be sent as soon as possible to Mr. Henry L. Dienna, Hotel Commodore, New York 17, N. Y. In your request please mention that you plan to attend the Second Annual joint — IRE-AIEE Conference on Electronic Instrumentation in Nucleonics and Medicine.

FOR INSTITUTE OF RADIO ENGINEERS

Professional Group on Nuclear Science
Nuclear Studies Committee

FOR AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Committee on Nucleonics
Committee on Electronics
Committee on Instruments and Measurements
Joint Subcommittee on Nucleonic Instrumentation
Joint Subcommittee on Electrical Aids to Medicine

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