

EPITOME, AIP 25TH ANNIVERSARY MEETING

The Joint Meeting of the five Founder Societies of the American Institute of Physics to celebrate the 25th Anniversary of the AIP's founding will be held in New York City, January 30–February 3, 1956. Most technical sessions will take place in the Hotel New Yorker (8th Avenue and 34th Street) although some will be held at Manhattan Center (311 West 34th Street). The regular Winter Meetings of the Physical Society and the Association of Physics Teachers will be held at this time, and special symposia have been arranged by the Optical Society, the Acoustical Society, and (jointly) by the Society of Rheology and the APS Division of High-Polymer Physics. Those attending the meeting should register upon arrival at the AIP Registration Center located on the Mezzanine of the New Yorker.

(Personal names are those of invited speakers. Halls, unless otherwise indicated, are in Hotel New Yorker.)

MONDAY, JANUARY 30

American Association of Physics Teachers

9:00 AM

12 Contributed Papers. Mosaic Room.

American Physical Society

10:00 AM

A. Fission; the Antiproton. Grand Ballroom. (Chamberlain; Lee)

AB. Nuclear and Electronic Scattering. Panel Room.

B. Magnetic Resonance and allied topics. Terrace Room.

BA. Microwave and Band Spectra. Empire Room.

C. Fluid Dynamics, I. Manhattan Center, Gold Room.

CA. Theoretical Physics, I. Boston Room.

2:00 PM

D. Fluid Dynamics, II; Business Session of Division of Fluid Dynamics. Manhattan Center, Gold Room.

DA. Reactions of Transmutation and Nuclear Energy Levels, He Through C. Grand Ballroom.

E. Optical Physics. Empire Room. (Jackson)

EA. Ferromagnetics. Terrace Room.

F. Theoretical Physics, II. Boston Room.

American Association of Physics Teachers

2:00 PM

Symposium: A Quarter Century of Physics Teaching. Mosaic Room. (Eaton; Overbeck; White; Edwards; Bitter)

7:00 PM

Meeting of the Council of the Association. Parlor C.

TUESDAY, JANUARY 31

American Association of Physics Teachers

9:00 AM

12 Contributed Papers. Mosaic Room.

American Physical Society

9:30 AM

G. Symposium of the Division of Electron Physics. Manhattan Center, Gold Room. (Fan; Weissler; Lassetre)

Business Meeting of the Division.

GA. Reactions of Transmutation and Nuclear Energy Levels, Mg Through Si. Grand Ballroom.

H. Radioactive Nuclei, I. Terrace Room. (Sherr)

HA. Solid-State Physics: Nonmetals. Panel Room.

I. General Physics; Atmospheric Physics. Empire Room. (Kallmann)

IA. Theoretical Physics, III. Boston Room.

2:00 PM

J. Electron Physics. Manhattan Center, Gold Room. (Dyke; Mueller)

JA. Reactions of Transmutation and Nuclear Energy Levels, P Through Au; General. Grand Ballroom.

K. Radioactive Nuclei, II. Terrace Room.

KA. Metals. Panel Room.

L. Theoretical Physics, IV. Boston Room.

American Association of Physics Teachers

2:00 PM

Panel Discussion: How Can We Get Better Teaching Apparatus? Mosaic Room. (Kelly; O'Connor; Rogers)

3:45 PM

Annual Business Meeting of the Association. Mosaic Room.

WEDNESDAY, FEBRUARY 1

American Physical Society

9:30 AM

M. Symposium on Biophysics. Terrace Room. (Gamow; Wyckoff; Pollard; Failla)

MA. Semiconductors, I. Manhattan Center, Gold Room.

N. Magnetism; Ferroelectricity; also, postdeadline papers, if any. Panel Room.

NA. Invited Papers. Grand Ballroom. (Pugh; Oxley; Hofstadter; Felt; Slepian)

P. Theoretical Physics, V. Boston Room.

Optical Society of America

9:30 AM

Symposium on Applications of Light Waves. Mosaic Room. (Gardner; Harrison; Baker)

American Physical Society

2:00 PM

Q. Symposium on K-Mesons. Grand Ballroom. (R. W. Birge; Ritson; Fitch; Orear)

QA. Semiconductors, II. Manhattan Center, Gold Room.

R. Neutron Physics, I. Panel Room.

RA. Invited Papers. Terrace Room. (Morse; Schultz; Pauli)

S. Cryogenics. Boston Room. (Hatton)

Acoustical Society of America

2:00 PM

Symposium on Physical Acoustics and the Properties of Matter. Mosaic Room. (Herzfeld; McSkimin; Lindsay; Nolle; Mason)

American Institute of Physics

7:30 PM

Banquet. Grand Ballroom. (Rabi; Schweitzer)

THURSDAY, FEBRUARY 2

American Physical Society and American Association of Physics Teachers

9:30 AM

Joint Ceremonial Session: APS Retiring Presidential Address (R. T. Birge); Richtmyer Memorial Lecture (Brattain); Oersted Medal (Uhlenbeck). Manhattan Center, Promenade Ballroom.

American Institute of Physics

2:00 PM

25th Anniversary Session. Manhattan Center. (Stratton; Casimir; Oppenheimer)

FRIDAY, FEBRUARY 3

American Physical Society

9:30 AM

U. Accelerators. Grand Ballroom.

UA. Neutron Physics, II. Panel Room.

V. Heavy Mesons and Hyperons; Cosmic Rays. Terrace Room.

VA. Solid-State Physics. Boston Room. (Geballe; Bean; Pines; Kallmann)

W. Theoretical Physics, VI. Empire Room.

Society of Rheology and APS Division of High-Polymer Physics

9:30 AM

Symposium on the Rheology of Polymers. Manhattan Center, Gold Room. (Tobolsky; Zimm; Ferry; Watkins)

American Physical Society

1:45 PM

Business Meeting. Grand Ballroom.

2:45 PM

XA. Apparatus of Nuclear Physics; Positronium. Terrace Room. (Ridgway)

Y. Neutron Physics, III. Panel Room.

Z. Mesons. Grand Ballroom.

ZA. Theoretical Physics, VII. Boston Room.

Society of Rheology and APS Division of High-Polymer Physics

2:45 PM

Symposium on the Rheology of Polymers concluded. Manhattan Center, Gold Room. (Blatz; Rivlin; Mooney; Lee)

OTHER EVENTS OF INTEREST

Technical Exhibit

Manufacturers of instruments, apparatus, and materials used in research will display standard and new equipment on the Mezzanine of the Hotel New Yorker from 9:00 AM to 6:00 PM, Tuesday through Friday. (See pp. 40-41.)

Sigma Pi Sigma Luncheon

Sigma Pi Sigma will hold its Annual Midwinter Luncheon for members and invited guests at 12:20 PM, Wednesday, February 1, in the Empire Suite of the New Yorker. Tickets may be obtained at the AIP Registration Center.

Biophysicists' Meeting

A discussion will be held Tuesday evening, January 31, 8:00 PM, in Parlor A of the New Yorker, relative to the proposed formal organization of biophysicists. Those interested are invited to attend.

AIP Placement Register

A Placement Register for physicists interested in employment opportunities will be held Monday through Thursday from 9:00 AM to 5:00 PM on the fifth and sixth floors of the Hotel New Yorker. Facilities will be available at the Placement Register for employers' representatives to interview candidates.

Ladies' Program

A program has been arranged for the entertainment of the ladies. There will be a special desk at the AIP Registration Center on the Mezzanine of the Hotel New Yorker where Mrs. J. B. H. Kuper will be available to advise and assist the ladies. Inquiries should be made there concerning current plays, local restaurants, shopping centers, tickets for TV and radio shows, and the various tours arranged for the ladies.

PROGRAM, AIP 25TH ANNIVERSARY MEETING

American Institute of Physics

Wednesday, February 1

7:30 PM

Hotel New Yorker, Grand Ballroom

Anniversary Banquet (Presiding, Frederick Seitz, Chairman of the Institute)

After-dinner speeches:

International Cooperation in Science (I. I. Rabi)
Reef Creatures: The Great Barrier Reef of Australia (Jerome Schweitzer)

Thursday, February 2

2:00 PM

Manhattan Center

Twenty-Fifth Anniversary Session of the American Institute of Physics: "Anticipations" (Presiding, Frederick Seitz)

Invited papers by: J. A. Stratton, Massachusetts Institute of Technology; H. G. B. Casimir, Philips Research Laboratories, Eindhoven; and J. R. Oppenheimer, Institute for Advanced Study

American Association of Physics Teachers

Monday, January 30

9:00 AM

Hotel New Yorker, Mosaic Room

Contributed papers 10 minutes each except as noted (Presiding, Walter C. Michels, Bryn Mawr College)

1. **Physics in the Design of Storm Drains** (F. E. Deloume, El Camino College, 15 minutes)
2. **A Physical Approach to Teaching Geometrical Optics** (F. Dow Smith, Boston University)
3. **Inexpensive Slits Useful in Physical Optics** (Seville Chapman, Cornell Aeronautical Laboratory, Inc.)
4. **Computation-Demonstrations in Mechanics** (Paul O. Hoffman and E. Ramberg, Newark College of Engineering, 15 minutes)
5. **The Neglected Quadrupole** (G. B. Arfken, Miami University)
6. **Faraday and Ocean Currents** (Frank T. Dietz, Narragansett Marine Laboratory, University of Rhode Island)
7. **Experimental Treatment of Modern Physics in Germany** (Karl Hecht, E. Leybold's Nachfolger)
8. **Demonstration Experiments with Streams of Water Drops** (Harold Waage, Princeton University, introduced by Eric M. Rogers)
9. **Graphical Representation of Physical Quantities** (E. U. Condon, Berkeley, California)

10. **A New Survey of the Atomic Constants** (John S. Thomsen, The Johns Hopkins University, 15 minutes)

11. **Some Demonstration Experiments** (Eric M. Rogers, Princeton University)

12. **Discussion of the Report on Physics in Engineering Education** (Elmer Hutchisson, Chairman of the AIP Committee on Physics in Engineering Education, 15 minutes)

2:00 PM

Hotel New Yorker, Mosaic Room

Symposium: A Quarter Century of Physics Teaching (Chairman, R. Ronald Palmer, Beloit College)

I. **Demonstrations and Visual Aids** (Vernet E. Eaton, Wesleyan University)

II. **Laboratory Instruction** (Clarence J. Overbeck, Northwestern University)

III. **Subject Matter Changes** (Harvey E. White, University of California)

IV. **Textbooks** (Ray L. Edwards, Miami University)

V. **Interaction of Teaching with Current Research** (Francis Bitter, Massachusetts Institute of Technology)

7:00 PM

Hotel New Yorker, Parlor C

Meeting of the Council of the Association

*Tuesday, January 31***9:00 AM**

Hotel New Yorker, Mosaic Room

Contributed papers 10 minutes each except as noted (Presiding, Frank Verbrugge, Carleton College)

13. **A Sophomore-Level Course in Experimental Physics** (J. Gordon Stipe, Jr. and Isabel Boggs, Randolph-Macon Woman's College)14. **Encouragement of Creative Thinking in Teaching Physics** (Louis R. Weber, Colorado Agricultural and Mechanical College)15. **Term Papers in Senior Courses in Physics** (L. Muldawer, Temple University)16. **Advise the Student that Mastering Physics Is Different** (J. G. Potter, Agricultural and Mechanical College of Texas)17. **Experiments with Standing Waves Using an Electronic Chord** (Thomas J. Blisard and John J. De Buske, Newark College of Engineering, 15 minutes)18. **A Plea for Help from Textbook Authors on the Matter of Significant Figures** (John R. Pruett, Bryn Mawr College)19. **Decision Theory and the Selection of Objectives in Physics Teaching** (Elmer Hutchisson, Case Institute of Technology)20. **Vacuum Tube Circuit Demonstrators** (Richard H. Howe, Denison University, 15 minutes)21. **A Suggestion Regarding the Physicist Shortage** (C. Sharp Cook, US Naval Radiological Defense Laboratory)22. **On a Certain Blindness in Physicists** (W. M. Pierce, Ohio University, 15 minutes)23. **Summary of Secondary Physics Improvement Program** (S. Winston Cram, Kansas State Teachers College, 15 minutes)24. **A Summer Course in Demonstration Experiments for High School Teachers** (Julius Sumner Miller, El Camino College)**2:00 PM**

Hotel New Yorker, Mosaic Room

Panel Discussion: **How Can We Get Better Teaching Apparatus? A Discussion of Needs and Possible Solutions** (Chairman, Sanborn C. Brown, Massachusetts Institute of Technology)

Panel Participants: William C. Kelly, University of Pittsburgh; Richard T. O'Connor, Welch Manufacturing Company; Nickerson Rogers, Loomis School

3:45 PM

Hotel New Yorker, Mosaic Room

Annual Business Meeting of the Association (Presiding, R. Ronald Palmer, President)

*Wednesday, February 1***7:30 PM**

Hotel New Yorker, Grand Ballroom

American Institute of Physics Anniversary Banquet (see AIP program, p. 44)

*Thursday, February 2***9:30 AM**

Manhattan Center, Promenade Ballroom

Joint Ceremonial Session with the American Physical Society (Presiding, E. P. Wigner and R. R. Palmer)

I. **Address of the Retiring President of the American Physical Society: Physics and Physicists of the Past Half Century** (Raymond T. Birge, University of California)II. **Fourteenth Richtmyer Memorial Lecture of the Association: The Development of Concepts in Semiconductor Research** (Walter H. Brattain, Bell Telephone Laboratories)III. **Oersted Medal Ceremony.** Presentation of the Oersted Medalist (Marsh W. White, Chairman AAPT Committee on Awards). Presentation of the Oersted Medal to Professor George E. Uhlenbeck (R. R. Palmer, President AAPT).

Address of the Oersted Medalist:

Physics at Leiden in the Middle Twenties; Reminiscences of Professor Paul Ehrenfest (George E. Uhlenbeck, University of Michigan)**2:00 PM**

Manhattan Center

Twenty-Fifth Anniversary Program of the American Institute of Physics: "Anticipations" (see AIP program, p. 44)

American Physical Society

*Monday, January 30***10:00 AM**

Hotel New Yorker, Grand Ballroom

A. **Fission** (Presiding, E. Segrè). Contributed papers; also invited papers on the antiproton:A6. **The Antiproton** (Owen Chamberlain, University of California, Berkeley)A7. **Charge Conjugation and Nucleon-Antinucleon Systems** (T. D. Lee, Columbia University)

Hotel New Yorker, Panel Room

AB. **Nuclear and Electronic Scattering; Diverse Topics** (Presiding, R. Hofstadter). Contributed papers.

Hotel New Yorker, Terrace Room

B. **Magnetic Resonance and Allied Topics** (Presiding, E. M. Purcell). Contributed papers.

Hotel New Yorker, Empire Room

BA. Microwave and Band Spectra (Presiding, M. W. P. Strandberg). Contributed papers.

Manhattan Center, Gold Room

C. Fluid Dynamics, I (Presiding, W. Bleakney). Contributed papers.

Hotel New Yorker, Boston Room

CA. Theoretical Physics, I (Presiding, G. Breit). Contributed papers.

2:00 PM

Manhattan Center, Gold Room

D. Fluid Dynamics, II (Presiding, F. N. Frenkiel). Contributed papers; Business Meeting of Division of Fluid Dynamics.

New Yorker Hotel, Grand Ballroom

DA. Reactions of Transmutation and Nuclear Energy Levels, He through C (Presiding, R. A. Peck, Jr.). Contributed papers.

Hotel New Yorker, Empire Room

E. Optical Physics (Presiding, A. G. Shenstone). Contributed papers; also, the following invited paper:

E7. The Hyperfine Structure of the Zeeman Effect and Isotope Shift in the Spectrum of Indium (Derek Jackson, Laboratoires de Bellevue)

Hotel New Yorker, Terrace Room

EA. Ferromagnetics (Presiding, R. M. Bozorth). Contributed papers.

Hotel New Yorker, Boston Room

F. Theoretical Physics, II (Presiding, H. M. Foley). Contributed papers.

Tuesday, January 31

9:30 AM

Manhattan Center, Gold Room

G. Symposium of the Division of Electron Physics (Presiding, R. L. Sproull). Business Meeting of Division of Electron Physics; also the following invited papers:

G1. Emission Spectra Excited by Electronic and Ionic Impact (C. Y. Fan, Yerkes Observatory)

G2. Photoionization in Gases (G. L. Weissler, University of Southern California)

G3. Determination of Oscillator Strengths from Collision Cross Sections of Atmospheric and Other Gases (E. N. Lassettre, Ohio State University)

Hotel New Yorker, Grand Ballroom

GA. Reactions of Transmutation and Nuclear Energy Levels, Mg through Si (Presiding, C. P. Browne). Contributed papers.

Hotel New Yorker, Terrace Room

H. Radioactive Nuclei, I (Presiding, C. S. Wu). Contributed papers; also, the following invited paper:

H1. Experiments Relating to the Long Life of Carbon-14 (Rubby Sherr, Princeton University)

Hotel New Yorker, Panel Room

HA. Solid-State Physics: Nonmetals (Presiding, A. S. Nowick). Contributed papers.

Hotel New Yorker, Empire Room

I. General Physics; Atmospheric Physics (Presiding, J. Kaplan). Contributed papers; also, the following invited paper:

I13. Electron Distribution in a New Model of the Ionosphere (H. K. Kallmann, University of California, Los Angeles)

Hotel New Yorker, Boston Room

IA. Theoretical Physics, III (Presiding, H. Feshbach). Contributed papers.

2:00 PM

Manhattan Center, Gold Room

J. Electron Physics (Presiding, H. D. Hagstrum). Contributed papers; also, the following invited papers:

J1. Recent Field-Emission Studies (W. P. Dyke, Linfield College)

J2. Field Ion Microscopy (E. W. Mueller, Pennsylvania State University)

Hotel New Yorker, Grand Ballroom

JA. Reactions of Transmutation and Nuclear Energy Levels, P through Au; General (Presiding, H. E. Gove). Contributed papers.

Hotel New Yorker, Terrace Room

K. Radioactive Nuclei, II (Presiding, R. Sherr). Contributed papers.

Hotel New Yorker, Panel Room

KA. Metals (Presiding, T. A. Read). Contributed papers.

Hotel New Yorker, Boston Room

L. Theoretical Physics, IV (Presiding, A. Pais). Contributed papers.

Wednesday, February 1

9:30 AM

Hotel New Yorker, Terrace Room

M. Symposium on Biophysics (Presiding, E. L. Quimby). Invited papers:

Socony Mobil's Nuclear Research Center

LONG RANGE STUDIES IN RADIATION PHYSICS

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Physicists from the Socony Mobil organization will be available for discussion at the American Physical Society meeting in January or write,

SOCONY MOBIL NUCLEAR RESEARCH
PRINCETON, N.J.

M1. Information Storage and Transfer in Living Matter (G. Gamow, George Washington University)

M2. Viruses and Macromolecules Studied with the Electron Microscope and Ultracentrifuge (R. W. G. Wyckoff, National Institute of Health)

M3. Viruses and Macromolecules Studied by Bombardment with High-Energy Particles (E. C. Pollard, Yale University)

M4. Biological Effects of Ionizing Radiations (G. Failla, Columbia University)

Manhattan Center, Gold Room

MA. Semiconductors, I (Presiding, P. H. Miller). Contributed papers.

Hotel New Yorker, Panel Room

N. Magnetism; Ferroelectricity (Presiding, A. De Bretteville). Contributed papers; also, postdeadline papers, if any.

Hotel New Yorker, Grand Ballroom

NA. (Presiding, R. T. Birge). Invited papers:

NA1. Scattering of 40- to 130-Mev Photons by Protons and Other Nuclei (G. E. Pugh, Massachusetts Institute of Technology)

NA2. Compton Effect in Scattering of 100-Mev Gamma Rays by Protons (C. L. Oxley, University of Chicago)

NA3. Scattering of High-Energy Electrons (R. Hofstadter, Stanford University)

NA4. Methods for Predicting Radioactive Fallout (G. L. Felt, Los Alamos Scientific Laboratory)

NA5. The Magneto-Ionic Expander Isotope Separator (J. Slepian, Westinghouse Research Laboratories)

Hotel New Yorker, Boston Room

P. Theoretical Physics, V (Presiding, R. E. Marshak). Contributed papers.

2:00 PM

Hotel New Yorker, Grand Ballroom

Q. Symposium on K-Mesons (Presiding, E. T. Booth). Invited papers:

Q1. Properties of Positive K-Mesons (R. W. Birge, University of California, Berkeley)

Q2. K-Meson Properties and Relative Abundances (D. Ritson, Massachusetts Institute of Technology)

Q3. Lifetimes of $K\pi^2$ and $K\eta^2$ Mesons (V. L. Fitch, Princeton University)

Q4. Spin and Lifetime of the Tau-Meson (J. Orear, Columbia University)

Manhattan Center, Gold Room

QA. Semiconductors, II (Presiding, W. L. Brown). Contributed papers.

Hotel New Yorker, Panel Room

R. Neutron Physics, I (Presiding, W. W. Havens, Jr.). Contributed papers.

Hotel New Yorker, Terrace Room

RA. (Presiding, E. P. Wigner). Invited papers:

RA1. On the Use of Digital Computers (P. M. Morse, Massachusetts Institute of Technology)

RA2. Research Instrumentation Using Digital Computing Circuitry (H. L. Schultz, Yale University)

RA3. Survey of Quantum Electrodynamics (W. Pauli, Eidgenössische Technische Hochschule, Zurich)

Hotel New Yorker, Boston Room

S. Cryogenics (Presiding H. A. Boorse). Contributed papers; also, the following invited paper:

S1. Effects of High Pressure on Superconducting Transitions and on the Electrical Conductivity of Metals at Low Temperatures (Joseph Hatton, Harvard University)

7:30 PM

Hotel New Yorker, Grand Ballroom

American Institute of Physics Anniversary Banquet (see AIP program, p. 44)

Thursday, February 2

9:30 AM

Manhattan Center, Promenade Ballroom

Joint Ceremonial Session with the American Association of Physics Teachers (Presiding, E. P. Wigner and R. R. Palmer)

T1. Address of the Retiring President of the American Physical Society: Physics and Physicists of the Past Half Century (Raymond T. Birge, University of California)

T2. Fourteenth Richtmyer Memorial Lecture of the Association: The Development of Concepts in Semiconductor Research (Walter H. Brattain, Bell Telephone Laboratories)

T3. Oersted Medal Ceremony. Presentation of the Oersted Medalist (Marsh W. White, Chairman AAPT Committee on Awards). Presentation of the Oersted Medal to Professor George E. Uhlenbeck (R. R. Palmer, President, AAPT).

Address of the Oersted Medalist:

Physics at Leiden in the Middle Twenties; Reminiscences of Professor Paul Ehrenfest (George E. Uhlenbeck, University of Michigan)

2:00 PM

Manhattan Center

Twenty-Fifth Anniversary Program of the American Institute of Physics: "Anticipations" (see AIP program, p. 44)

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says Dr. Mac C. Adams, noted aerodynamicist, author of papers on aerodynamics and gas dynamics, and Director of the Avco Research Laboratory.

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*Friday, February 3***9:30 AM**

Hotel New Yorker, Grand Ballroom

U. Accelerators (Presiding, M. S. Livingston). Contributed papers.

Hotel New Yorker, Panel Room

UA. Neutron Physics, II (Presiding, P. R. Bell). Contributed papers.

Hotel New Yorker, Terrace Room

V. Heavy Mesons and Hyperons; Cosmic Rays (Presiding, L. M. Lederman). Contributed papers.

Hotel New Yorker, Boston Room

VA. Solid-State Physics (Presiding, K. G. McKay). Invited papers:

VA1. Thermoelectricity and Thermal Conduction in Semiconductors (T. H. Geballe, Bell Telephone Laboratories)

VA2. Ferromagnetic Domain Walls (C. P. Bean, General Electric Company)

VA3. The Theory of the Polaron (David Pines, Princeton University)

VA4. Long Living Excited States in Solids (H. P. Kallmann, New York University)

Hotel New Yorker, Empire Room

W. Theoretical Physics, VI (Presiding, C. N. Yang). Contributed papers.

Manhattan Center, Gold Room

WA. Division of High-Polymer Physics and Society of Rheology: Symposium on the Rheology of Polymers (see Society of Rheology program, p. 52)

1:45 PM

Hotel New Yorker, Grand Ballroom

Business Meeting of the American Physical Society (Presiding, R. T. Birge)

2:45 PM

Manhattan Center, Gold Room

X. Symposium on the Rheology of Polymers, concluded (see Society of Rheology program, p. 52)

Hotel New Yorker, Terrace Room

XA. Apparatus of Nuclear Physics; Positronium (Presiding, M. Deutsch). Contributed papers; also, the following invited paper:

XA10. The External Proton Beam of the Brookhaven Cosmotron (S. L. Ridgway, Brookhaven National Laboratory)

Hotel New Yorker, Panel Room

Y. Neutron Physics, III (Presiding, Richard Wilson). Contributed papers.

Hotel New Yorker, Grand Ballroom

Z. Mesons (Presiding, L. M. Lederman). Contributed papers.

Hotel New Yorker, Boston Room

ZA. Theoretical Physics, VII (Presiding, R. Serber). Contributed papers.

Optical Society of America

*Wednesday, February 1***9:30 AM**

Hotel New Yorker, Mosaic Room

Symposium on Applications of Light Waves (Presiding, Ralph A. Sawyer, President of the Optical Society of America). Invited papers, 45 minutes each.

I. Light Waves and Length Measurements (Irvine C. Gardner, National Bureau of Standards)

II. Light Waves and Mechanical Control (George R. Harrison, Massachusetts Institute of Technology)

III. Light Waves and Telescopes (James G. Baker, Harvard College Observatory)

7:30 PM

Hotel New Yorker, Grand Ballroom

American Institute of Physics Anniversary Banquet (see AIP program, p. 44)

*Thursday, February 2***2:00 PM**

Manhattan Center

Twenty-Fifth Anniversary Program of the American Institute of Physics: "Anticipations" (see AIP program, p. 44)

You might wait forever for another opportunity like this . . .

Here is a once-in-a-lifetime opportunity for you if you are an ambitious engineer or scientist. Westinghouse has just received additional new contracts to develop, design and build atomic power plants to propel naval vessels. That means unusual professional openings for a few talented engineers and scientists. If you are interested in a creative job, solving some of today's most challenging problems . . . a chance to use all your training and experience . . . the opportunity to carve a career in today's most dynamic industry . . . and you'll want to investigate Westinghouse Atomic Power today. You might wait forever for another opportunity like this.

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PHYSICISTS-MATHEMATICIANS Experimental Physicists for Research Studies with Nuclear Reactors; Theoretical Physicists for General Reactor Theory Development and Dynamics. Mathematicians—Research in Applied Mathematics, Numerical Analysis, and Digital Computing Techniques relating to Nuclear Power Reactors.

METALLURGISTS Basic Research in Physical Metallurgy, Corrosion and Radiation Effects on Metals; Applied Research and Development on Materials and Fabrication Processes for Reactor Fuel Components, Power Metallurgy and Metal Working; Non-Destructive Testing.

MECHANICAL ENGINEERS To Design Power Plant Components—Heat Exchangers, Pumps, Valves, etc.; Experimental and Theoretical Heat Transfer and Fluid Flow; Analytical Development in Mechanisms, Applied Mechanics, and Stress Analysis.

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Westinghouse

First in Atomic Power

Acoustical Society of America

Wednesday, February 1

2:00 PM

Hotel New Yorker, Mosaic Room

Physical Acoustics and the Properties of Matter (Presiding, F. V. Hunt, Harvard University). Invited papers 30 minutes each.

I. Physical Acoustics and the Properties of Gases (K. F. Herzfeld, Catholic University)

II. Wave Propagation and the Measurement of the Elastic Properties of Liquids and Solids (H. J. McSkimin, Bell Telephone Laboratories)

III. Physical Acoustics and the Properties of Liquids (R. B. Lindsay, Brown University)

IV. Physical Acoustics and the Properties of High-Polymer Materials (A. W. Nolle, University of Texas)

V. Physical Acoustics and Properties of Solids (W. P. Mason, Bell Telephone Laboratories)

7:30 PM

Hotel New Yorker, Grand Ballroom

American Institute of Physics Anniversary Banquet (see AIP program, p. 44)

Thursday, February 2

2:00 PM

Manhattan Center

Twenty-Fifth Anniversary Program of the American Institute of Physics: "Anticipations" (see AIP program, p. 44)

Society of Rheology

Wednesday, February 1

7:30 PM

Hotel New Yorker, Grand Ballroom

American Institute of Physics Anniversary Banquet (see AIP program, p. 44)

Thursday, February 2

2:00 PM

Manhattan Center

Twenty-Fifth Anniversary Program of the American Institute of Physics: "Anticipations" (see AIP program, p. 44)

Friday, February 3

9:30 AM

Manhattan Center, Gold Room

Joint Symposium on the Rheology of Polymers sponsored by the Society of Rheology and the American Physical Society Division of High-Polymer Physics

(Presiding, A. B. Bestul, National Bureau of Standards). Invited papers 30 minutes each except as noted.

1. Viscoelastic Properties of Crystalline and Amorphous Polymers (A. V. Tobolsky, Princeton University)

2. The Normal Coordinate Treatment of Relaxation Processes in Polymers (Bruno H. Zimm, General Electric Company, 40 minutes)

3. Mechanical Relaxation Spectra and Friction Coefficients and Their Dependence on Polymer Structure (John D. Ferry, University of Wisconsin)

4. Stress Relaxation in Concentrated Solutions of Polymethyl Methacrylate. Molecular Weight Dependence (John M. Watkins, E. I. duPont de Nemours & Company)

2:45 PM

5. The Numerical Inversion of Relaxation Data to Distribution Functions of Relaxation Times (Paul J. Blatz, Aerojet General Corporation)

6. Some Remarks on the Normal Stress Effect (R. S. Rivlin, Brown University)

7. The Non-Newtonian Rheology of Raw Rubber (M. Mooney, United States Rubber Company)

8. Stress Analysis in Viscoelastic Materials (E. H. Lee, Brown University)

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The American Institute of Physics is the coordinating and unifying organization in the field of physics. All of the societies listed below are Members or Affiliates of the Institute. Seven journals are published by the Institute for the Member Societies. These, together with five journals owned by the Institute, constitute a coordinated publishing program of high standards, efficiency, and economy.

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Address: Wallace Waterfall, Secretary, 57 East 55th Street, New York 22, New York.

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Dues: Members, \$15; Fellows, \$25.

Address: Karl K. Darrow, Secretary, Columbia University, New York 27, New York.

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Address: Arthur C. Hardy, Secretary, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.

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Publications: Members receive the annual rheology issue of the *Journal of Applied Physics*. Sustaining members also receive both the *Journal of Applied Physics* and *The Review of Scientific Instruments*.

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