CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY office. Readers are invited to write or telephone for general calendar information beyond what we print. For complete information concerning an entry, readers are advised to consult the contact. The date at the end of each item refers to the issue of PHYSICS TODAY in which the item is listed with more detail than appears in subsequent issues.

ABBREVIATIONS: AAPT, American Association of Physics Teachers; AAS, American Astronomical Society; ACA, American Crystallographic Association; APS, American Physical Society; ASA, Acoustical Society of America; OSA, Optical Society of America; S of R, Society of Rheology; AEC, US Atomic Energy Commission; AFCRL, Air Force Cambridge Research Laboratories; AVS, American Vacuum Society; IAEA, International Atomic Energy Agency; IEEE, Institute of Electrical and Electronics Engineers; IPPS, The Institute of Physics and The Physical Society; IUPAP, International Union of Pure and Applied Physics; NBS, National Bureau of Standards; ORNL, Oak Ridge National Laboratory.

CODING of each item is as follows: date **subject** □ HOST □ Location (*Contact*) [submission deadline] *PT ref.*

• new listing ♦ new information

SEPTEMBER 1968

9–12 **Elementary Particles** □ IPPS □ London *(Meetings Officer, IPPS) 2/68*

9–14 **Physics of Ice** □ FEDERAL MINISTRY OF SCIENTIFIC RESEARCH, BAVARIAN STATE MINISTRY OF EDUCATION AND CULTURE □ Munich, Germany *(N. Riehl)* [6/1] *6/68*

9–14 **Arnold Sommerfeld Centennial Memorial Meeting and Symposium on Physics of One- and Two-Electron Atoms** □ IUPAP □ Munich, Germany
for memorial session:
(F. Bopp) 2/68
for symposium:
(H. Kleinpoppen) 6/68

9–14 **Statistical Mechanics** □ IUPAP □ Tokyo *(R. Kubo) 1/68*

10–13 **Nuclear Electronics** □ SOCIÉTÉ FRANÇAISE DES ELECTRONICIENS ET RADIOÉLECTRICIENS □ Versailles, France *(Colloque International sur l'Electronique Nucléaire) 5/68*

10–15 **Magnetic Oxides** □ INSTITUTE OF PHYSICS OF THE ACADEMY OF SR ROMANIA □ Bucharest, Romania *(M. Rosenberg) 10/67*

11–13 **Physical Aspects of Noise in Electronics** □ IPPS □ *(Meetings Officer, IPPS)* [5/31] *1/68*

11–19 **Integration of Science Teaching** □ INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS □ Varna, Bulgaria *(P. Fleury) 5/68*

12, 13 **Solid-State Sensors and Transducers** □ IEEE □ Minneapolis, Minn. *(M. M. Atalla)* [4/17] *6/68*

12–14 **Structural Properties of Hydroxyapatite and Related Compounds** □ OFFICE OF NAVAL RESEARCH, NBS □ Gaithersburg, Md. *(R. A. Young) 6/68*

16–18 **Advanced Space Experiments** □ AMERICAN ASTRONAUTICAL SOCIETY □ Ann Arbor, Mich. *(P. A. Brooks) 7/68*

16–19 **Liquid Dielectrics** □ CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIC □ Grenoble, France *(N. J. Felici)* [2/1] *5/68*

16–19 **National Meeting** □ ELECTRON MICROSCOPY SOCIETY OF AMERICA □ New Orleans, La. *(W. P. Jollie) 6/68*

16–20 **Microwave and Optical Generation and Amplification** □ IEEE □ Hamburg, F. R. Germany *(MOGA 68)* [4/10] *6/68*

16–21 □ 15TH AMPERE COLLOQUIUM □ St. Martin d'Hères, France *(P. Averbuch) 9/67*

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SEPTEMBER 1968

16–21 **Optical and Spectroscopic Phenomena in Ionic Crystals** □ INSTITUTE OF PHYSICS OF THE ROMANIAN ACADEMY □ Bucharest, Romania *(M. Giurgea)* [3/30] *5/68*

17–20 **Engineering Uses of Holography** □ U. OF STRATHCLYDE, NATIONAL PHYSICAL LABORATORY □ Glasgow, England *(E. R. Robertson)* *7/68*

18, 19 **Electrical Properties of Polymers** □ IPPS □ University of Wales, Cardiff *(M. E. Baird)* [6/15] *7/68*

18–20 • **Thermal Expansion of Solids** □ WESTINGHOUSE ASTRONUCLEAR LABORATORY, NBS □ Gaithersburg, Md. *(R. K. Kirby, Rm. A221, Metrology Bldg. NBS, Washington, D. C. 20234)* *9/68*

Topics: theory of thermal expansion, structural aspects of thermal expansion, low-temperature techniques, recent measurements at low temperatures, dilatometers, optical comparators, diffraction methods, applied temperature measurements, applied instrumentation, data compilation and reference materials.

18–20 **Gas-Filled Valves** □ IPPS □ U. of Southampton, England *(Meetings Officer, IPPS)* [6/7] *6/68*

19–20 • **Technical Conference** □ SOCIETY OF PLASTICS ENGINEERS □ Ill. Inst. of Tech., Chicago *(Mitsu Shida, PAGTEG Registrations Chairman, c/o Chemplex Co. Rolling Meadows, Ill. 60008)* *9/68*

Topics include physical behavior and flow properties of polymers, polymer structural properties and use properties.

23–26 **Plasma Diagnostics** □ IPPS □ Culham Laboratory, England *(Meetings Officer, IPPS)* [3/1] *5/68*

23–27 **Vacancies and Interstitials in Metals** □ IUPAP □ Jülich, Germany *(W. Schilling)* [5/15] *11/67*

23–27 **Color Centers in Alkali Halides** □ IUPAP □ Rome, Italy *(U. M. Grassano)* [6/30] *6/68*

24–26 **Laser Measurements** □ INTERNATIONAL SCIENTIFIC RADIO UNION □ Warsaw, Poland *(S. Hahn)* [2/1] *10/67*

25–27 **Stresses in Composite Materials** □ IPPS □ Cranfield, England *(Meetings Officer, IPPS)* [12/1] *1/68*

25–27 **Ultrasonics** □ IEEE □ New York *(F. M. Smits)* [7/15] *2/68*

OCTOBER 1968

2–4 **Textures in Research and Practice** □ INSTITUT FÜR METALLKUNDE UND METALLPHYSIK □ Clausthal, Germany *(Institut für Metallkunde and Metallphysik, Technische Hochschule Clausthal)* *6/68*

2–11 **International Congress** □ S OF R □ Kyoto, Japan *(M. Horio)* [3/1] *6/68*

4, 5 **Low-Energy Nuclear Physics** □ NEW YORK STATE SECTION-APS □ State University of New York at Albany *(J. Smith)* *5/68*

5, 6 **Electron-Magnetic Field Interactions** □ APS NEW ENGLAND SECTION □ Dartmouth College, Hanover, N. H. *(J. J. Quinn)* *8/68*

7–10 **Thermal Conductivity** □ THERMOPHYSICAL PROPERTIES RESEARCH CENTER □ Purdue U., West Lafayette, Ind. *(W. H. Shafer)* *7/68*

7–11 • **Modern Trends in Activation Analysis** □ NBS, AEC □ Gaithersburg, Md. *(J. R. DeVoe, Rm. A361, Chem. Bldg., NBS, Washington, D. C. 20234)* *9/68*

Topics are divided into areas covering nuclear reactions, applications, radiochemical separation, instrumentation and data handling, and computation of results.

8–10 **Analytical Chemistry in Nuclear Technology** □ ORNL □ Gatlinburg, Tenn. *(L. J. Brady)* [7/1] *7/68*

9–11 • **Annual Meeting** □ METEORITICAL SOCIETY □ Cambridge, Mass. *(Ursula B. Marvin, Smithsonian Astrophysical Observatory, 60 Garden St. Cambridge, Mass. 02138)* *9/68*

Topics: meteorites, tektites, cosmic dust, impact structures and lunar and planetary geology.

9–11 • **Annual Meeting** □ APS SOUTHEASTERN SECTION □ Athens, Ga. *(L. W. Seagondollar, Southeastern Section, APS, Dept. of Physics, North Carolina State University, Raleigh, N. C. 27607)* [9/68] *9/68*

9–12 **Annual Meeting** □ OSA □ Pittsburgh, Pa. *(M. E. Warga)* [7/8] *7/68*

10, 11 **Applications of Ferroelectrics** □ CATHOLIC U. OF AMERICA, IEEE □ Washington, D. C. *(H. L. Stadler)* [7/1] *7/68*

13–19 • **International Astronautical Federation** □ AIAA □ New York *(A. G. Kildow, Director of Public Affairs, AIAA, 1290 Sixth Ave., New York, N. Y. 10019)* *9/68*

Topics: Propulsion, astrodynamics, space rescue, astrionics, bioastronautics, system design, history of astronautics, outerspace law, reëntry physics, satellites.

14–17 **Plasma Instabilities in Astrophysics** □ APS, AAS, AEC □ Pacific Grove, Calif. *(P. A. Sturrock)* [7/1] *7/68*

14–18 **Packaging and Transportation of Radioactive Materials** □ ORNL, AEC □ Gatlinburg, Tenn. *(K. W. Haff)* [1/1] *2/68*

15–17 **Switching and Automata Theory** □ IEEE □ Schenectady, N. Y. *(P. M. Lewis, II)* [8/17] *7/68*

16–18 **Gaseous Electronics** □ APS, JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS □ Boulder, Colo. *(G. H. Dunn)* [8/26] *6/68*

18, 19 • AAPT ILLINOIS SECTION □ Urbana, Ill. *(G. M. Almy, Aurora College, Aurora, Ill. 60507)* *9/68*

SPRING PHYSICS SHOW

APRIL 28–MAY 1, 1969

Sheraton-Park Hotel, Washington, D. C.

For the first time, there will be an instrument exhibit at the Spring Meeting of the American Physical Society.

Largely nuclear and solid state in character, the Spring Meeting ranks 2nd to New York in registration. This past April, over 3,500 physicists attended the Washington meeting. Approximately half the sessions were on nuclear physics; a quarter of them on solid state. Other sessions included particles and fields, electron and atomic physics, plasma physics and fluid dynamics.

Companies serving the physics community who have expressed interest in exhibiting at the SPRING PHYSICS SHOW are listed below. Others are invited to do so by writing:

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Intertechnique Inst.
Isotopes Inc.
Janis Research
Jeolco
Johnston Labs.
Keithley Instruments
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Valpey Corporation
Varian Associates
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O. S. Walker
Whittaker Corp.
John Wiley & Sons

OCTOBER 1968

19 □ AAPT IOWA SECTION □ Parsons College, Fairfield, Iowa *(E. B. Nelson) 8/68*

20–23 **Electrical Insulation and Dielectric Phenomena** □ NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL □ Buck Hill Falls, Pa. *(R. A. Cliffe) 7/68*

21–23 **Silicon Carbide** □ AFCRL □ University Park, Pa. *(J. W. Faust) 4/68*

21–23 **Annual Meeting** □ SOLAR ENERGY SOCIETY □ Palo Alto, Calif. *8/68*

21–25 **Advanced and High-Temperature Gas-Cooled Reactors** □ IAEA □ Jülich, Germany *(J. H. Kane)* [7/1] *6/68*

23–25 **Electron Devices** □ IEEE □ Washington, D. C. *(A. Chisholm)* [7/1] *8/68*

23–25 **Nuclear Science** □ IEEE □ Montreal, Canada *(R. Green)* [5/10] *7/68*

24, 25 **Image Information Recovery** □ SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS □ Philadelhpia, Pa. *(D. L. Kelly) 8/68*

28, 29 **Hybrid Microelectronics** □ INTERNATIONAL SOCIETY FOR HYBRID MICROELECTRONICS, IEEE □ Rosemont, Ill. *(A. H. Mones)* [6/1] *7/68*

28–30 **Applied Superconductivity** □ APS, AEC, IEEE, ORNL □ Gatlinburg, Tenn. *(W. F. Gauster)* [8/5] *6/68*

28–30 • **Rare Earth Research** □ International Harvester Co, NSF □ Coronado, Calif., *(J. F. Nachman, conf. chmn., Research Laboratories (R-1), Solar div., International Harvester Co, 2200 Pacific Highway, San Diego, Calif., 92112) 9/68*

Topics: interdisciplinary papers on physics, chemistry, ceramics, geology, and metallurgy of the elements, their compounds and their alloys.

28–31 **Instrumentation** □ INSTRUMENT SOCIETY OF AMERICA □ New York *(O. W. Williams)* [2/1] *1/68*

29–1 **Annual Symposium** □ AVS □ Pittsburgh, Pa. *(W. J. Lange)* [6/15] *4/68*

NOVEMBER 1968

6–8 **Pittsburgh Diffraction Conference** □ MELLON INSTITUTE □ Pittsburgh, Pa. *(S. Diamond)* [9/9] *7/68*

10–15 **Winter Meeting** □ AMERICAN NUCLEAR SOCIETY □ Washington, D. C. *(F. Schroeder)* [7/15] *6/68*

13–16 **Annual Meeting** □ PLASMA PHYSICS DIV.-APS □ Miami Beach, Fla. *(W. B. Ard)* [9/12] *7/68*

18–21 **Magnetism and Magnetic Materials** □ AIP, IEEE □ New York *(D. T. Teaney)* [8/9] *3/68*

NOVEMBER 1968

19–21 □ ASA □ Cleveland, Ohio *(J. L. Hunter) 3/68*

19–22 • ASA □ Cleveland *(J. L. Hunter, Dept. of Physics, John Carroll U., Cleveland, Ohio 44118) 9/68*

Topics: invited papers on dynamics of liquids structure, power level determination in reverberation chambers, periphery of the auditory system, properties of brass musical instruments, sonically induced vibrations of structures and structural dampening.

19–21 **Physics in the Metal Forming Industries** □ IPPS □ Harrogate, Yorkshire, England *(Meetings Officer, IPPS)* [4/30] *6/68*

21, 22 **Chemical Kinetics** □ U. OF NORTH CAROLINA □ Chapel Hill, N. C. *(L. Pedersen) 6/68*

25–27 • **Fluid Dynamics** □ DIV.-APS □ Seattle, Wash. *(A. Goldberg, Chmn. Program Comm., Boeing Scientific Research Laboratory, P. O. Box 3981, Seattle, Wash. 98124) 9/68*

25–27 **Fall Meeting and Nuclear Physics Div.** □ APS □ Miami Beach, Fla. *(W. W. Havens) 3/68*

DECEMBER 1968

2–4 □ AMERICAN GEOPHYSICAL UNION □ San Francisco *(J. C. Harrison)* [10/1] *2/68*

2–4 **Reliability Physics** □ IEEE □ Washington, D. C. *(S. Schwartz)* [11/1] *8/68*

4–7 **Annual Meeting** □ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE □ Chicago *(R. O. Gorson)* [10/1] *6/68*

11–13 □ AAS □ Austin, Tex. *(P. M. Routly) 3/68*

16–20 **Relativistic Astrophysics** □ SOUTHWEST CENTER FOR ADVANCED STUDIES □ Dallas *(I. Robinson) 9/67*

18–20 **Winter Meeting** □ APS □ San Diego *(W. Whaling)* [10/15] *2/68*

JANUARY 1969

11–15 **Annual Meeting** □ S OF R □ Williamsburg, Va. *(J. G. Brodnyan) 6/68*

13–17 **Non-Metallic Crystals** □ IUPAP □ Delhi, India *(S. C. Jain) 8/68*

13–18 • **Atomic, Molecular and Solid-State Theory and Quantum Biology** □ *U. of Florida, Uppsala U.* □ Sanibel Island, Fla. *(Winter Institute, 525 Nuclear Sciences Bldg., U. of Florida, Gainesville, Fla. 32601) 9/68*

Topics: quantum biology, reaction kinetics, energy storage and transfer, solution effects, theory of liquid state, atomic and molecular theory and symmetry properties, solid-state physics. Panal discussion, honoring Henry Eyring, on "Can biology be reduced to physics and chemistry?"

JANUARY 1969

29–31 • **Health Physics Operational Monitoring** □ HEALTH PHYSICS SOCIETY □ Los Angeles *(C. A. Willis, Atomics International, P. O. Box 309, Canoga Park, Calif. 91304)* [1/69] *9/68*

Topics: operational experiences, training, instrumentation, emergency monitoring, air monitoring, communication, exposure control, area monitoring, exposure evaluation, and regulations, licencing and inspections.

FEBRUARY 1969

3–6 **Annual Meeting** □ AAPT-APS □ New York *(W. W. Havens) 4/68*

27–1 **Southwest Meeting** □ APS □ St. Louis, Mo. *(R. G. Sachs) 4/68*

MARCH 1969

6, 7 **Acoustical Holography** □ DOUGLAS ADVANCED RESEARCH LABORATORIES □ Huntington Beach, Calif. *(Secretary, 2nd International Symp. Acoust. Holography)* [12/2] *7/68*

11–15 □ OSA □ San Diego, Calif. *(M. E. Warga) 4/68*

13–15 **Isobaric Spin** □ APS □ Pacific Grove, Calif.

17–19 • **Physical Electronics** □ YALE UNIVERSITY □ New Haven, Conn. *(T. E. Fischer, Dept. of Engineering and Applied Science, Hammond Laboratory, Yale University, 14 Mansfield St., New Haven, Conn. 06520) 9/68*

23–29 □ ACA □ Seattle, Wash.

24–26 **Chemical, High-Polymer and Solid-State Physics Div.** □ APS □ Philadelphia, Pa. *(W. W. Havens) 5/68*

APRIL 1969

8–11 **Inaugural Meeting** □ EUROPEAN PHYSICAL SOCIETY □ Florence, Italy, *(L. Cohen) 8/68*

8–11 □ ASA □ Philadelphia, Pa.

15–18 • **Intermag** □ IEEE □ Amsterdam *(Th. Holtwijk, Philips Research Laboratories, Eindhoven, The Netherlands) 9/68*

21–25 **Fundamental Aspects of Dislocation Theory** □ NBS □ Washington, D. C. *(R. deWit)* by invitation only *8/68*

21–25 **50th Anniversary Meeting** □ AMERICAN GEOPHYSICAL UNION □ Washington, D. C. *(Geophysical Union Headquarters) 8/68*

21–25 **Solid State Chemistry** □ ARIZONA STATE U. □ Scottsdale, Ariz. *(L. Eyring) 8/68*

28–30 **Surface Science, Effusion and Evaporation** □ NEW MEXICO SECTION AVS, LOS ALAMOS SCIENTIFIC LABORATORY □ Los Alamos, N. M. *(C. Winkelman) 8/68*

APRIL 1969

28–1 **Spring Meeting and Nuclear Physics Div.** □ APS □ Washington, D. C. *(W. W. Havens)* 5/68

28–2 **Thin Films** □ INTERNATIONAL CONFERENCE ON THIN FILMS □ Boston, Mass. *(M. H. Francombe)* [11/29] 6/68

MAY 1969

4–9 **Spring Meeting** □ ELECTROCHEMICAL SOCIETY □ New York *(Electrochemical Society)* 8/68

19–21 **Offshore Technology** □ AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS □ Houston, Tex. *(C. Karlson)* 8/68

26–28 **Laser Engineering** □ IEEE □ Washington, D. C. *(F. R. Arams)* [1/17] 8/68

JUNE 1969

18–20 **Summer East Meeting** □ APS □ Rochester, N. Y. *(W. W. Havens)* 6/68

23–25 **Shock Tubes** □ APS □ Toronto

23–25 **Summer Meeting** □ AAPT □ St. Louis, Mo.

JULY 1969

14–18 **Atomic Absorption Spectroscopy** □IPPS □ Sheffield, England *(AAS Conference Secretary)* 8/68

AUGUST 1969

10–14 **Medical Physics** □ US NAVAL COMMITTEE FOR MEDICAL PHYSICS, INTERNATIONAL ORGANIZATION FOR MEDICAL PHYSICS □ Boston *(E. W. Webster)* 8/68

13–21 **International Congress** □ INTERNATIONAL UNION OF CRYSTALLOGRAPHY □ Stony Brook, N. Y. *(International Union of Crystallography)* [6/1] 7/68

SEPTEMBER 1969

2–4 **Summer West Meeting** □ APS □ Honolulu

OCTOBER 1969

5–10 **Fall Meeting** □ ELECTROCHEMICAL SOCIETY □ Detroit *(Electrochemical Society)* 8/68

19–21 □ S OF R □ St. Paul, Minn.

21–24 □ OSA □ Chicago

29–31 **Gaseous Electronics** □ APS □ Gatlinburg, Tenn.

JANUARY 1970

26–29 **Annual Meeting** □ APS □ Chicago □