CALENDAR

This is a complete calendar. It lists all physics-related meetings known to us. For the next two months we will publish only new information (partial calendar); in the third month (January) we will again publish a complete calendar as far into the future as we have information. During months with a partial calendar, readers can add new entries to their last complete 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.

Abbreviations:

AAPT—American Association of Physics Teachers
AAS—American Astronomical Society
ACA—American Crystallographic Assoc.
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
ANS—American Nuclear Society
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:

date subject □ HOST □ Location *(Contact)* [submission deadline] *Physics Today ref.*
• new listing ♦ new information

OCTOBER 1969

1–3 **Quantum Theory Conference** □ U. of Oxford *(The Secretary) 8/69*

1–5 **Annual Meeting** □ AMERICAN SOCIETY FOR INFORMATION SCIENCE □ San Francisco *(C. P. Bourne) 2/69*

3, 4 **Physics of Surfaces** □ APS NEW YORK SECTION □ Canisius College *(J. J. Ruddick) 8/69*

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

6–8 **Thermal Conductivity** □ AMES LABORATORY, AEC □ Iowa State U. *(H. R. Shanks) 6/69*

6–10 **Applied Spectroscopy** □ SOCIETY OF APPLIED SPECTROSCOPY □ Anaheim, Calif. *(W. T. Barnes) 7/69*

6–11 **II International Nuclear Industrial Fair and Technical Meeting** □ NUCLEX 69 □ Basle, Switzerland *(Nuclex 69 Secretary) 9/69*

6–11 **Congress of Radiology** □ INTERNATIONAL SOCIETY OF RADIOLOGY □ Tokyo, Japan *(Tadashi Adachi) 5/69*

10, 11 **Theoretical Physics** □ Syracuse U. *(F. Rohrlich) 8/69*

10, 11 □ AAPT-APS NEW ENGLAND SECTION □ South Hadley, Mass. *(APS–Fred M. Gardner, AAPT–W. H. Ross) 9/69*

11 • □ AAPT APPALACHIAN SECTION □ Frostburg State College, Frostburg, Maryland *(E. O. Cook) 10/69*

13–16 • **Professional Perfection—the Aim of Materials Evaluation** □ AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING □ Philadelphia, Pa. *(Henry G. Bogart, Magnaflux Corp, New York, N. Y.) 10/69*

13–17 **Radiation Safety Problems** □ IAEA □ Saclay, France *(J. H. Kane) 7/69*

16 • **Plasma and Magnetic Fields in Propulsion and Power Research** □ NASA LEWIS RESEARCH CENTER □ Cleveland, Ohio *(Paul Barhoover, 21000 Brookpark Rd,*

OCTOBER 1969

Mail stop 301-1, Cleveland, Ohio 44135) 10/69

17, 18 • □ APS FALL MEETING OF THE OHIO SECTION □ Columbus, Ohio *10/69*

17–19 □ SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE □ Yale University, New Haven, Conn. *(SSRS) 9/69*

20–22 **Spectroscopy Symposium** □ CANADIAN TECHNICAL RESEARCH CENTER □ Montreal, Canada *(R. Dunn) 7/69*

20–22 **Electrical Insulation and Dielectric Phenomena** □ NATIONAL ACADEMY OF SCIENCES, NATIONAL RESEARCH COUNCIL □ Buck Hill Falls, Pa. *(R. A. Cliffe) 7/69*

20–22 • **Magnetic Properties of Transition Metal Ion Complexes** □ STATE UNIVERSITY OF NEW YORK, DEPT OF CHEMISTRY; AYERST LABORATORIES, INC, OF ROUSES POINT, NY □ Plattsburgh, N. Y. *(Gerald F. Kokoszka, Dept. of Chemistry, State University College, Plattsburg, N. Y. 12901) 10/69*

Topics: electron paramagnetic resonance, magnetic susceptibility and Mössbauer measurements in elucidating the structure and bonding of metal ion complexes as well as providing a means of obtaining other important chemical information.

20–22 □ S OF R □ St. Paul, Minn.

21–23 • **Thermionic Energy Conversion** □ IEEE □ Carmel, Calif. *(W. E. Harbaugh, RCA, Electronic Components, Lancaster, Penn. 17604) 10/69*

21–24 □ OSA □ Chicago

24, 25 □ AAPT ILLINOIS SECTION □ Southern Illinois U., Edwardsville, Ill. *(M. A. Hakeem) 9/69*

27–30 □ AMERICAN VACUUM SOCIETY □ Seattle, Wash. *(H. W. Schleuning) 5/69*

28, 29 **Physics of High-Pressure Arcs** □ GASEOUS ELECTRONICS CONFERENCE □ Gatlinburg, Tenn. *(A. V. Phelps) 9/69*

28–31 **National Symposium** □ AVS □ Seattle, Wash. *12/68*

28–4 **Superconductors** □ CENTRE DE PERFECTIONNEMENT TECHNIQUE □ Paris *(Centre de Perfectionnement Technique) 7/69*

29–31 **Nuclear Science Symposium and Exhibition** □ GROUP ON NUCLEAR SCIENCE, IEEE □ San Francisco *(Technical Conf. Services) 11/68*

29–31 **International Electron Devices Meeting** □ IEEE □ Washington, D. C. *(IEEE) 9/69*

30, 31 **Statistical Mechanics** □ Northwestern U. *(A. J. F. Siegert) 8/69*

30–1 • □ APS DIVISION OF NUCLEAR PHYSICS □ Boulder, Col.

NOVEMBER 1969

1 □ AAPT MICHIGAN SECTION □ Calvin College *(J. M. Barnes) [10/69] 8/69*

3–6 **Electronic Density of States** □ NBS □ Gaithersburg, Md. *(L. H. Bennett) 2/69*

4–5 **Interaction of Light With Sound Waves** □ ASA □ San Diego *(O. K. Mawardi) 6/69*

4–7 □ ASA □ San Diego, Calif. *(J. L. Stewart) 9/69*

5–7 **Diffraction Conference** □ Carnegie-Mellon U. *(J. H. Scott) 6/69*

5–7 **Accelerator Dosimetry and Experience** □ STANFORD LINEAR ACCELERATOR CENTER, AEC □ Stanford U. *(E. J. Vallario) 6/69*

6–8 □ APS SOUTHEASTERN SECTION □ U. of Florida *(P. Shearin) [10/1] 7/69*

8 □ AAPT IOWA SECTION □ Coe College, Cedar Rapids *(D. Hutchinson) 7/69*

10–14 **Electronic Phenomena in Ceramics** □ U. of Florida *(L. L. Hench) 7/69*

11–14 **Neutrons in Radiobiology** □ UNIVERSITY OF TENNESSEE, ORNL HEALTH PHYSICS DIVISION □ Oak Ridge, Tenn. *(Physics Abstracts, J. A. Auxier—Biological Abstracts, M. J. Constantine) 2/69*

12–14 **II International Conference on Accelerator Dosimetry and Experience** □ Stanford (SLAC), Calif. *(R. C. McCall) 9/69*

12–15 □ APS DIV. OF PLASMA PHYSICS □ Los Angeles *(R. W. Gould) 6/69*

13, 14 **Magnetic Semiconductors** □ IBM RESEARCH CENTER □ Yorktown Heights, New York *(P. E. Seiden) 7/69*

14 • **X-ray Absorption** □ IPPS □ London *(Meetings, Officer, IPPS, 47 Belgrave Square, London, S.W.1. UK) 10/69*

Topics: mass absorption coefficient data, absorption in solid samples, absorption in gases, and absorption in crystal diffraction.

15 □ AAPT NORTHERN CALIFORNIA SECTION □ California State Polytechnic College □ San Luis Obispo *(H. W. Ibser) 5/69*

15, 16 **3rd Annual Mid-America State Universities Association** □ DEPT. OF PHYSICS, OKLAHOMA STATE U. □ Stillwater, Oklahoma *(T. M. Wilson) 9/69*

17–19 • **Electron and Atomic Physics** □ APS DIVISION OF ELECTRON AND PHYSICS □ New York, NY *(Sidney Borowitz, Physics Dept., New York University, Bronx, N. Y. 10453) 10/69*

Topics: surface physics, electron physics, atomic and molecular life-times, classical spectroscopy, spectroscopy of interstellar space, x rays (in astronomy), optical resonance and/or quantum electronics, atomic and molecular structure, rf spectroscopy and atomic collisions.

17–21 • **Laser Technology** □ ELECTRONIC INDUSTRIES ASSOCIATION, BUREAU OF INTERNATIONAL COMMERCE OF

NOVEMBER 1969

THE DEPARTMENT OF COMMERCE □ Paris *(Jane Davis, Electronic Industries Association, 2001 Eye St., N.W., Washington, D. C. 20006) 10/69*

18–21 **Magnetism and Magnetic Materials** □ IEEE, AMERICAN INSTITUTE OF PHYSICS □ Philadelphia *(J. D. Blades) 1/69*

19–21 **Dynamics of Standards Applications** □ US STANDARDS INSTITUTE □ Detroit, Mich. *(Dorothy Hogan) 9/69*

19–21 • 1969 **Eastern Analytical Symposium** □ AMERICAN CHEMICAL SOCIETY, APPLIED SPECTROSCOPY, AMERICAN MICROCHEMICAL SOCIETY □ New York, N. Y. *(Richard J. Knauer, Armco Steel Corp, Advanced Materials Division, P. O. Box 1697, Baltimore, Maryland 21203) 10/69*

Topics: spectroscopy, chromatography, biomedical analyses and miscellaneous subjects such as analysis for chromosome imbalance, solvation energies on pH scales in nonaqueous solvents, quantitative NMR, computer-controlled experimentation, automatic clinical analyzers, and new sampling techniques for atomic absorption and emission.

24–27 • □ APS DIVISION OF FLUID DYNAMICS □ Norman, Oklahoma *(Daniel Bershader, Dept. of Aeronautics and Astronautics, Stanford University, Stanford, Calif. 94305) 10/69*

DECEMBER 1969

1–4 **Winter Meeting** □ ANS, ATOMIC INDUSTRIAL FORUM □ San Francisco *(O. J. Du Temple) 12/68*

3–6 □ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE □ Chicago *(J. G. Kereiakes)* [10/1] *6/69*

4, 5 **Photogrammetry, Lasers and Holography** □ OAKLAND UNIVERSITY ENGINEERING SCHOOL □ Rochester, Mich. *(K. A. Meade) 9/69*

4, 5 • **Role of Nuclear Energy in the Northwest** □ STATE OF OREGON □ Portland *(Arthur Scott, Dept of Physics, Reed College, Portland, Oregon 97202) 10/69*

5, 6 **Regge Poles** □ U. of California, Irvine *(G. L. Shaw) 8/69*

8–11 **Medical Radionuclides: Radiation Dose and Effects** □ US PUBLIC HEALTH SERVICE, US ATOMIC ENERGY COMMISSION □ Oak Ridge, Tenn. *(Chairman's Office) 9/69*

8–13 **Physics Exhibition** □ SOCIÉTÉ FRANÇAISE DE PHYSIQUE □ Paris *(Société Française de Physique) 7/69*

9–11 □ AAS □ American Museum-Hayden Planetarium, New York *(G. C. McVittie) 5/69*

9–11 • **Application of Magnetism in Bioengineering** □ IEEE, ISRAEL SOCIETY FOR BIOMEDICAL ENGINEERING □ The Weizmann Institute of Science, Rehovoth, Israel *(E. H. Frei, Weizmann Inst. of Science, Rehovoth, Israel)* [11/15] *10/69*

Topics: magnetic control of catheters, valves and fluids and their surgical uses; inductive energy coupling through the skin; electromagnetic flowmeters; magnetic measurements of body electrical activity; and magnet design.

11, 12 **Holography and the Computer** □ IBM □ Houston *(J. A. Jordan)* [10/10] *7/69*

15–18 **Fall Meeting** □ AMERICAN GEOPHYSICAL UNION □ San Francisco *(J. C. Harrison) 8/69*

17–19 • □ APS □ Los Angeles *(W. W. Havens, Jr, APS, 335 E. 45th St, New York, N. Y. 10017) 10/69*

26–31 **Annual Meeting** □ AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE □ Boston *(D. W. Thornhill) 5/69*

29–31 □ APS □ Los Angeles

JANUARY 1970

6–8 **Solid-State Physics** □ IPPS □ U. of Manchester *(Meetings Officer) 6/69*

14–16 **Engineering with Nuclear Explosives** □ ANS, AEC □ Las Vegas *(G. W. Johnson) 6/69*

26–29 • □ APS □ Chicago *(W. W. Havens Jr, APS, 335 E. 45th St, New York, N. Y. 10017) 10/69*

FEBRUARY 1970

2–4 □ S OF R □ Pasadena, Calif.

16–20 **Handling of Nuclear Information** □ AEC, IAEA □ Vienna, Austria *(J. H. Kane) 7/69*

18–20 • **IEEE International Solid-State Circuit Conference** □ IEEE SOLID-STATE CIRCUITS COUNCIL, U. OF PENN. □ Philadelphia *(L. D. Wechsler, General Electric Co., Electronics Park, Building #3, Syracuse, New York 13201)* [10/17] *10/69*

Topics: integrated electronics, circuit techniques, memories, new device applications, optoelectronics and microwave electronics.

MARCH 1970

2–4 □ ACA □ New Orleans

11–13 • **Nuclear Radiation Detectors and their Applications** □ NUCLEAR SCIENCE GROUP OF THE IEEE, NBS, AEC □ Washington, D. C. *(R. L. Chase, Chairman, Program Committee, Scintillation and Semiconductor Symposium, Bldg. 535, Brookhaven National Laboratory, Upton, N. Y. 11973; Louis Costrell, Chief, Radiation Physics Instrumentation Section, National Bureau of Standards, Washington, D. C. 20234)* [11/15] *10/69*

Topics: scintillation and fluorescence phenomena; photomultipliers; semiconductor detectors; other types of detectors of ionizing radiation; track imaging; spark and proportional counter; proportional position-sensitive detectors; biomedical detectors; spectrometry; signal-condition-

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MARCH 1970

ing circuits; low-noise preamplifiers; space applications; x-ray spectroscopy and detection; and detector array and data handling.

11–13 • **International Seminar on Digital Processing of Analog Signals** □ IEEE, DANISH ACOUSTICAL SOCIETY, GROUPEMENT DES ACOUSTICIENS DE LANGUE FRANCAISE, NACHRICHTENTECHNISCHE GESELLSCHAFT, SCHWEIZERISCHER ELEKTROTECHNISCHER VEREIN □ Zurich, Switzerland *(E. H. Rothauser, Swiss Federal Inst. of Technology, Zurich, Switz.) 10/69*

16–20 **Fourier Spectroscopy** □ AFCRL □ Aspen, Colo. *(G. Vanasse) 7/69*

20–22 • **Physics of Semimetals and Narrow Band-Gap Semiconductors** □ APS □ Dallas *(D. L. Carter, M.S. 134, Texas Instruments Inc., P.O. Box 5936, Dallas, Tex. 75222)* [12/5] *10/69*

24–26 • **Engineering Aspects of Magnetohydrodynamics** □ CAL TECH □ Pasadena *(Lance G. Hays, Jet Propulsion Lab, Cal Tech, 4800 Oak Grove Dr, Pasadena 91103)* [12/15] *10/69*

30–1 **Physical Electronics Conference** □ U. OF WISCONSIN □ Milwaukee *(D. Lichtman)* [2/70] *8/69*

31–3 **Yield, Deformation and Fracture of Polymers** □ COMMITTEE OF BRITISH SOCIETIES □ Churchill College, Cambridge *(Meetings Officer) 6/69*

APRIL 1970

1–4 **Thermodynamics** □ IPPS, IUPAP, IUPAC □ University College, Cardiff *(Meetings Officer) 7/69*

7–9 **Nuclear Physics** □ IPPS □ Guildford, Surrey, England *(Meetings Officer) 7/69*

7–10 **Thermophysical Properties of Solids at High Temperatures** □ IPPS SOLID STATE PHYSICS SUBCOMMITTEE, BRITISH CERAMIC SOCIETY, SOCIETY OF CHEMICAL INDUSTRY □ Risley, Warrington *(Meetings Officer)* [10/69] *8/69*

7–10 □ OSA □ Philadelphia, Pa.

11 □ AAPT MICHIGAN SECTION □ Jackson Community College *(J. M. Barnes)* [3/70] *8/69*

12–16 • **The Environmental Challenge of the Seventies** □ INSTITUTE OF ENVIRONMENTAL SCIENCES □ Boston, Mass. *(Technical Program Committee, Institute of Environmental Sciences, 940 East Northwest Highway, Mt. Prospect, Ill. 60056* [10/15] *10/69*

Topics: air, water, and land pollution, noise and transportation, dynamics of environmental simulation, solar radiation, marine technology, weightlessness, measurements and instrumentation, specifications and criteria, quality assurance and reliability and facility design.

14–17 • **Geoscience Electronics** □ IEEE-GEOSCIENCE ELECTRONICS GROUP □ Washington, D. C. *(Ralph Bernstein, Chairman, Technical Program Committee, IBM Corp, 18100 Frederick Pike, Gaithersburg, Md. 20706) 10/69*

Topics: lunar geophysics and exploration, environmental pollution, earth resources survey, oceanographic instrumentation, earth seismology, international decade of ocean exploration and meteorology.

21–24 **Magnetics** □ MAGNETICS GROUP, IEEE □ Washington, D. C. *(D. S. Shull, Jr) 8/69*

21–24 □ ASA □ Atlantic City, N. J.

27–30 □ APS □ Washington, D. C.

28–30 **III Annual Scanning Electron Microscope Symposium** □ Chicago, Ill. *(Om Johari)* [12/1] *9/69*

MAY 1970

3–8 **Radiation and Man** □ II INTERNATIONAL CONGRESS ON RADIATION PROTECTION □ Brighton, England *(B. Godbold) 9/69*

8, 9 • □ APS OHIO SECTION □ Cincinnati, Ohio

11–14 • **Microwave Theory and Techniques** □ IEEE □ Newport Beach, Calif. *(Samuel Sensiper, IEEE, 345 E. 47th St, New York, N. Y. 10017) 10/69*

11–15 • **Mechanical Effects of High Pressure** □ INTERNATIONAL COMMITTEE ON HIGH PRESSURE □ Aviemore, Invernesshire, Scotland *(Jeremy Schoeffer) 9/69*

JUNE 1970

2–5 • **Precision Electromagnetic Measurements** □ NBS INSTITUTE FOR BASIC STANDARDS, IEEE GROUP ON INSTRUMENTATION AND MEASUREMENT, US COMMISSION 1 OF THE INTERNATIONAL SCIENTIFIC RADIO UNION □ Boulder, Colo. *(George Goulette, Bureau of Continuation Education, University of Colorado, Boulder, Colo. 80302)* [2/70] *10/69*

Topics: direct current and low frequency measurements, time and frequency, radio frequency and microwave measurements, time-domain measurements, automated measurements and cryogenic electromagnetic measurements.

7–11 □ HEALTH PHYSICS SOCIETY □ Chicago *(R. F. Cowing) 7/69*

14–18 **Annual Meeting** □ ANS □ Houston, Tex. *(O. J. Du Temple) 11/68*

15, 16 • **Solid-State in Industry—The New Generation of Industrial Control** □ IEEE GROUP ON INDUSTRIAL ELECTRONICS AND CONTROL INSTRUMENTATION □ Cleveland, Ohio *(A. J. Humphrey, Technical Program Chairman, The Reliance Electric and Engrg. Co, 24701 Euclid Ave., Cleveland, Ohio 44117)* [9/1] *10/69*

Topics: industrial semiconductor components; solid-state devices having industrial applications; process-control systems; computer systems for industrial control, data acquisition, etc.; and the application of solid-state devices and components to industrial heating.

15–19 **Congress of Applied Mechanics**

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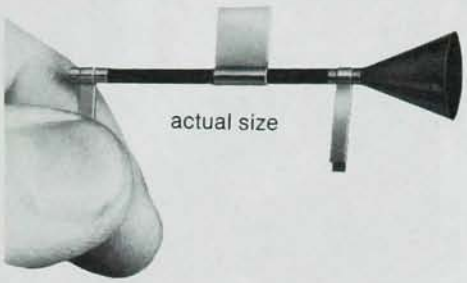

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JUNE 1970

□ US COMMITTEE FOR THEORETICAL AND APPLIED MECHANICS □ Harvard U. *(G. F. Carrier)* [1/70] *6/69*

18–20 □ AAPT □ Laramie, Wyo.

22–24 □ APS □ Manitoba, Canada

28–4 • **IV International Congress of Radiation Research** □ Evian, France *(R. Laterjet, Laboratoire Pasteur, Institut du Radium, 26 Rue D'Ulm, 75-Paris 5e France) 10/69*

JULY 1970

6–12 □ SOCIETY OF NUCLEAR MEDICINE □ Washington, D. C. *(M. Glos) 7/69*

13–15 □ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE □ Washington, D. C. *(J. A. Hancock Jr.) 7/69*

21–24 • **II International Conference on Atomic Physics** □ Oxford *(G. K. Woodgate, Clarendon Laboratory, St. Catherine's College, Oxford, England) 10/69*

AUGUST 1970

2 • **High-Speed Photography** □ SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS □ Denver, Colo. *(Carlos H. Elmer, Society of Motion Picture and Television Engineers, 9 E. 41st St., New York, N. Y. 10017) 10/69*

16–21 □ ACA □ Ottawa, Canada

17–21 **10th International Semiconductor Conference** □ MIT, IUPAP □ MIT, *(M. I. Nathan) 7/69*

24–26 • **Radiation Effects in Semiconductors** □ IUPAP, AFCRL, STATE UNIVERSITY OF NEW YORK AT ALBANY □ Albany *(J. W. Corbett, Physics Dept., SUNY, Albany, N. Y. 12203) 10/69*

Topics: basic science (theory and experiment) of phenomena associated with defects in the elemental semiconductors (silicon, germanium, diamond, etc.) and in the compound semiconductors, and of related phenomena such as ion implantation, channeling.

24–27 • **II Inter-American Conference on Materials Technology** □ SOUTHWEST RESEARCH INSTITUTE □ Mexico City, Mexico *(David L. Black, Symposium Coördinator, Southwest Research Inst., P.O. Drawer 28510, San Antonio, Texas 78228)* [10/15] *10/69*

27–29 • **Transport Properties of Solids** □ AUSTRALIAN INSTITUTE OF PHYSICS □ Sydney, Australia *(G. K. White, CSIRO Division of Physics, Sydney University Grounds, Chippendale, NSW 2008, Australia) 10/69*

30–6 **Electron Microscopy** □ Grenoble,

NEW LISTING OF SHORT COURSES AND LECTURE SERIES

1–3 OCTOBER

Some Continuing Problems in the Philosophy of Science □ COLUMBIA UNIVERSITY'S INSTITUTE FOR THE STUDY OF SCIENCE IN HUMAN AFFAIRS □ New York, N. Y. *(D. W. Richards, Institute for the Study of Science in Human Affairs, Columbia University, 622 W. 113th St., New York, N. Y. 10025)* The lecturer will be Shmuel Sambursky, Eleanor Roosevelt Professor of the History and Philosophy of Science at the Hebrew University of Jerusalem.

Topics: 1 Oct; structure and periodicity—centenary of the discovery of the periodic table; 2 Oct; causality in Greek medicine and physics; 3 Oct; freedom of the will in the light of physical theories.

THIRD FRIDAY, OCTOBER–MAY

Topics of General Current Interest in Physics □ PHYSICAL SCIENCE SECTION OF THE NEW YORK ACADEMY OF SCIENCES □ New York, N. Y. *(Joel L. Lebowitz, Chairman, Dept. of Physics, Belfer Graduate School of Science, Amsterdam Avenue and 186th St., New York, N. Y. 10033)*

Lectures, preceded by cocktails and dinner for invited guests of the Academy, will be given the third Friday of each month in the hope that they will become a meeting place for the New York physics community. The first lecture, 17 Oct., will be given by Joseph Weber, U. of Maryland, on "Gravitational Radiation Experiments." The second, 21 Nov., will be given by Freeman Dyson, Institute for Advanced Study at Princeton.

26–30 JANUARY 1970

1. Direct Energy Conversion; 2. Measurement Engineering □ ARIZONA STATE UNIVERSITY □ Tempe, Ariz. *(1. C. E. Backus, Assistant Professor of Engineering, Engineering Center, Arizona State University, Tempe, Arizona 85281; 2. Peter Stein, same address)*

Topics: 1. thermoelectrics, thermionics, photovoltaics, MHD and fuel cells. The short course will cover the physical principles underlying all of the conversion devices and present a unified theory of energy converters which enables them to be classified and compared. 2. measurement engineering theory: transducer classification schemes, interference and noise, measuring system selection, others; transducer physical principles: resistive elements, magnetic and inductive elements, others; special lectures: acoustics as an aid to measurements, measurements in biology, strain measurement for stress analysis.

5 JULY–29 AUGUST 1970

Mathematical Physics □ UNIV. OF GRENOBLE, NATO ADVANCED STUDY INST. PROGRAM □ Les Houches (Haute Savoie), France *(Ecole d'Eté de Physique Théorique, 74-Les Houches (Haute Savoie), France; or Cécile DeWitt, Dept. of Physics, U. of North Carolina, Chapel Hill, North Carolina 27514)* [3/15]

Topics: functional analysis, rigorous results in statistical mechanics, present status of axioms of quantum field theory, models in statistical mechanics, phase transitions, general theory of renormalization and integral functions in statistical mechanics.

AUGUST 1970

France *(Secretary, Ecole normale sup. Lab. de Botanique) 8/69*

31–4 **Strength of Metals and Alloys** □ AMERICAN SOCIETY FOR METALS □ Pacific Grove, Calif. *(J. A. Fellows) 6/69*

SEPTEMBER 1970

4–10 **Low-Temperature Physics** □ IUPAP □ Kyoto, Japan *(T. Sugawara) 6/69*

7–10 ♦ **Quantum Electronics** □ INSTITUTE OF ELECTRONICS COMMUNICATION ENGINEERS OF JAPAN □ Kyoto *(Hugh C. Wolfe, Publications Division, American Institute of Physics, 335 E. 45th St., N. Y., N. Y. 10017)* [3/70] *7/69*

7–12 **Magnetism** □ Grenoble, France *(W. C. Marshall) 8/69*

14–19 • **International Conference on Magnetism** □ IUPAP □ Grenoble, France *(Le Président du Comité d'Organisation, Conférence Internationale de Magnétisme, CEDEX n° 166, 38-Grenoble-Gare, France)* [4/70] *10/69*

22–25 **Reaction Transition States** □ SOCIÉTÉ DE CHIMIE PHYSIQUE □ Paris *(Secrétariat Général) 8/69*

29–2 • □ OSA □ Hollywood, Fla.

OCTOBER 1970

21–23 **Gaseous Electronics** □ APS DIVISION OF ELECTRON AND ATOMIC PHYSICS □ Hartford, Conn. *(R. H. Bullis) 8/69*

NOVEMBER 1970

3–6 □ ASA □ Houston, Tex.

4–6 **Nuclear Science Symposium** □ IEEE □ New York *(IEEE) 6/69*

4–7 • □ APS PLASMA PHYSICS DIVISION □ Washington, D. C.

15–19 □ ANS, ATOMIC INDUSTRIAL FORUM, ATOMIC FAIR □ Washington, D. C. *(O. J. Du Temple) 6/69*

DECEMBER 1970

28–31 • □ APS □ Stanford, Calif.

FEBRUARY 1971

1–4 □ APS–AAPT □ New York

MARCH 1971

29–1 □ APS □ Cleveland, Ohio

APRIL 1971

5–8 • □ OSA □ Tucson, Ariz.

13–15 • **IX International Conference on**

Magnetics □ IEEE MAGNETICS GROUP □ Denver, Colo. *(Magnetics Group, IEEE, 345 E. 47th St., New York, N. Y. 10017) 10/69*

20–23 □ ASA □ Washington, D. C. *(R. K. Eby) 7/69*

26–29 □ APS □ Washington, D. C.

JUNE 1971

13–17 □ ANS □ Boston *(O. J. Du Temple) 8/69*

17–19 □ AAPT □ Beloit, Wisc.

13–19 • **VIII World Petroleum Congress** □ Moscow *(Secretary, U. S. National Committee, VIII World Petroleum Congress, 1271 Avenue of the Americas, New York, N. Y. 10020) 10/69*

21–25 □ HEALTH PHYSICS SOCIETY □ New York *(R. F. Cowing) 6/69*

AUGUST 1971

17–26 • **VII International Congress on Acoustics** □ INTERNATIONAL COMMISSION ON ACOUSTICS □ Budapest *(T. Tarnoczy, Chairman, c/o Eotovos Lorand Society of Physics, Szabadsag Ter. 17, Budapest V, Hungary) 10/69*

SEPTEMBER 1971

1–3 • **1971 International Symposium on Antennas and Propagation** □ INSTITUTE OF ELECTRONICS AND COMMUNICATION ENGINEERS OF JAPAN □ Sendai, Japan *(K. Nagai, Secretary, Executive Committee of 1971 ISAP, Japan, c/o The Inst. of Electronics and Communication Engineers of Japan, Kikai-Shinko-Kaikan Bldg. Shiba Park 21-1-5, Minato-ku, Tokyo 105, Japan) 10/69*

OCTOBER 1971

5–8 • □ OSA □ Ottawa, Canada

19–22 □ ASA □ Denver *(J. E. White) 8/69*

JANUARY 1972

31–3 □ APS-AAPT □ San Francisco

APRIL 1972

24–27 • □ APS □ Washington, D. C.

OCTOBER 1972

17–20 • □ OSA □ San Francisco

JANUARY 1973

29–1 □ APS-AAPT □ New York

APRIL 1973

23–27 • □ APS □ Washington, D. C. □