

calendar

JANUARY 1974

- 14-18 **Magnetic Resonance** [International Society of Magnetic Resonance] Bombay, India 5/73
- 14-25 **IAMAP First Special Assembly** [Int Assoc of Meteorology and Atmospheric Physics] Melbourne, Australia 11/73
- 21-23 **Integrated Optics** [OSA; IEEE] New Orleans, La. [10/12/73] 7/73
- 27-1 **Power Engineering Society Meeting** [IEEE] New York, N. Y. [9/1/73] 9/73
- 28-30 • **Aeronautics and Astronautics** [AIAA] Washington, D. C. (J. J. Harford, AIAA, 1290 Ave of the Americas, N. Y. 10019)
- 28-30 • **Rheology** [S of R] Indian Wells, Calif. (N. W. Tschoegl, Chemical Engineering Dept, Calif. Inst of Technology, Pasadena, Calif. 91109)
- 28-30 **Structure-Property Relationships in Thick Film and Bulk Coatings** [AVS] San Francisco, Calif. [10/1/73] 9/73
- 30-1 **Aerospace Sciences** [AIAA] Washington, D. C. [7/30/73] 6/73
- 30-1 **Spectroscopy** [Western Spectroscopy Assn] Pacific Grove, Calif. 9/73

FEBRUARY 1974

- 4 • **SPS Regional Meeting** [SPS] Chicago, Ill. (D. L. Bushnell, Dept of Physics, Northern Ill. Univ, DeKalb, Ill. 45431)
- 4, 5 **Earthquake Mechanism and Displacement Fields Close to Fault Zones** [American Geophysical Union; Defense Mapping Agency;

- NASA; NOAA; Ohio State Univ; US Geological Survey] UC San Diego, La Jolla, Calif. 12/73
- 4-7 **Joint Meeting** [APS-AAPT] Chicago, Ill. 5/73
- 6-8 **Magnetospheric-Ionospheric Coupling** [American Geophysical Union] Yosemite, Calif. [11/20/73] 12/73
- 7, 8 **Symp on Applied Vacuum Science and Technology** [AVS SE Regional Adm Group] Tampa, Florida [11/16/73] 11/73
- 11-13 **Vacuum Conference** [Australian Inst of Physics] Canberra, A. C. T. Australia 4/73
- 13-15 **Solid-State Circuits** [IEEE] Philadelphia, Pa. 8/73
- 15, 16 • **SPS Zone 10 Meeting** [SPS] Huntsville, Tex. (K. L. J. Mittelstaedt, Dept of Physics, Sam Houston State Univ, Huntsville, Tex. 77340)
- 18 • **SPS Zone 2 Symp** [SPS] New York, N. Y. (A. A. Yalow, Dept of Physics, Cooper Union School of Engineering and Science, New York, N. Y. 10003)
- 18, 19 **Atomic Energy—1974 National Symposium** [Atomic Energy Society of Japan] Tokyo, Japan 10/73
- 22, 23 • **SPS Zone 6 Meeting** [SPS] Baton Rouge, La. (R. G. Hussey, Dept of Physics and Astronomy, Louisiana State Univ, Baton Rouge, La. 70803)
- 25-27 **Physical Electronics** [APS] Murray Hill, N. J. [1/11/74] 8/73
- 26-28 • **Flow Measurements as Related to National Needs** [NBS] Gaithersburg, Md. (L. K. Irwin, Mechanics Div, Physics Building B214, NBS, Washington, D. C. 20234)

This is a complete listing of physics-related meetings known to us. A complete calendar will appear in alternate months (no calendar in other months). Those wishing to submit items for the calendar should send complete information at least *three months* before the notice should appear.

Abbreviations:

- AAPM** American Association of Physicists in Medicine
- 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
- SPS** Society of Physics Students
- S of R** Society of Rheology
- AEC** US Atomic Energy Commission
- AIAA** American Institute of Aeronautics and Astronautics

- ANS** American Nuclear Society
- ASTM** American Society for Testing and Materials
- AVS** American Vacuum Society
- EPS** European Physical Society
- IAEA** International Atomic Energy Agency
- IEEE** Institute of Electrical and Electronics Engineers
- IOP** The Institute of Physics
- IUPAP** International Union of Pure and Applied Physics
- NAS** National Academy of Sciences
- NBS** National Bureau of Standards
- NSF** National Science Foundation
- ONR** Office of Naval Research
- ORNL** Oak Ridge National Laboratory

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date subject [Sponsor] Location (Contact) [abstract deadline] *Physics Today* reference
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surveying and modelling waste control problems; heat transfer; two phase flow studies; investigation of separation processes.

Computing Science

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Electronics

instrumentation and measurement including data processing and systems applications.

Materials

fracture; radiation damage; corrosion; fabrication and testing techniques.

Metallurgy

development of new alloys, ceramics and composites for high temperature and other high demand applications.

Physics

nuclear structure studies, NDT and materials physics, neutron beam studies, application of nuclear physics techniques, radiation physics and spectroscopy, liquid physics, Mössbauer, applied optics.

Theoretical Physics and Mathematics

atomic and molecular theory; theory of fluids and heat transfer; electronic theory of solid materials; theory of radiation damage, defects and dislocations; computer modelling; numerical analysis, applied mathematics, operations research.

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the moderation of containment of high temperature plasma for various magnetic field geometries and in the rapid magnetic compression of plasmas.

Fusion Reactor Science

theoretical and experimental studies of technological problems arising in the design of plasma physics experiments and conceptual design studies of fusion reactors, surface physics, super conducting technology.

Theoretical studies of High Temperature Plasma

research in magneto-hydrodynamics, plasma kinetic theory and a wide range of related topics in theoretical physics.

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the facilities include an ICL system 4/70 computer, with on-line access and graphical display and use of an IBM 370/165 at Harwell. Research and development on fluid dynamics and energy applications.

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OR

The Senior Personnel Officer,
The Culham Laboratory,
Abingdon, Berks, OX14 3DB.

FEBRUARY 1974

- 26-1 **Climatic Impact Assessment Program** [US Dept of Transportation] Cambridge, Mass. 11/73
- 27-1 **Scintillation and Semiconductor Counting** [IEEE Group on Nuclear Science; AEC; NBS] Washington, D. C. 5/73
- 28, 1 • **Structural Phase Transitions: Analogies with other Critical Phenomena** [Middle European Cooperation] Vienna, Austria (M. W. Valenta, *Physikal Inst, Univ of Wien, Strudlhofg. 4, A-1090, Vienna, Austria*)

MARCH 1974

- 1, 2 • **SPS Zone 9 Meeting** [SPS] Kansas City, Mo. (R. C. Waring, *Dept of Physics, Univ of Missouri, Kansas City, Mo. 64110*)
- 4-6 • **Electrostatic and Electromagnetic Confinement of Plasmas and the Phenomenology of Relativistic Electron Beams** [N. Y. Academy of Sciences; AEC] New York, N. Y. (*Public Relations, The N. Y. Academy of Sciences, 2 E. 63rd St, New York, N. Y. 10021*)
- 4-6 • **Gas Phase Molecular Structure** [Center for Structural Studies of the Univ of Texas] Austin Tex. (J. E. Boggs, *Dept of Chemistry, Univ of Texas, Austin, Tex. 78712*)
- 4-6 **Instrumentation in Astronomy** [Soc of Photo-Optical Instrumentation Engineers] Tucson, Ariz. 12/73
- 5-7 **Solar Radio Astronomy** [Committee of European Solar Radio Astronomers] Berne, Switzerland 8/73
- 5-9 **Condensed Phases of Helium** [French Physical Society] Aussois, Savoie, France 12/73
- 7-9 • **SPS Regional Meeting** [SPS] El Paso Tex. (D. E. Bowen, *Dept of Physics, Univ of Texas, El Paso, Tex. 79968*)
- 11-14 **Fast Reactors** [British Nuclear Energy Society] London, UK 7/73
- 11-15 **Isotope Techniques in Groundwater Hydrology** [IAEA] Vienna, Austria 11/73
- 12-14 **Particle Accelerators** [IEEE; NBS; APS; AEC; NSF] Washington, D. C. 10/73
- 12-16 **Applications of Nuclear Data in Science and Technology** [IAEA] Paris, France 7/73
- 19-21 **Electro-Optics** [Kiver Communications] Brighton, UK 9/73
- 19-21 **Mechanical Properties of Materials at High Rates of Strain** [IOP Materials Testing Group] Univ of Oxford, UK [10/1/73] 11/73
- 20-22 **Tetrahedrally Bonded Amorphous Semiconductors** [APS; IBM] Yorktown Heights, N. Y. [12/3/73] 12/73
- 20-23 **Archaeometry and Archaeological Prospection** [Research Laboratory for Archaeology] Oxford, UK 10/73
- 22, 23 • **SPS Zone 6 Meeting** [SPS] Orlando, Fla. (J. C. Katzin, *Dept of*

Physics, Florida Tech Univ, Orlando, Fla. 32816)

- 22-24 **Spring Meeting** [OSA] Washington, D. C. 10/73
- 24-28 **Liquids and Amorphous Materials** [ACA] Univ of California, Berkeley 6/73
- 24-29 **Crystal Growth—4th International Conference on Crystal Growth** [Organizing Committee] Tokyo, Japan 10/73
- 25-28 **General Meeting** [APS] Philadelphia, Pa. 5/73
- 25-29 **International Convention and Exposition** [IEEE] New York, N. Y. 9/73
- 25-29 **Solid Surfaces** [International Union for Vacuum Science, Technique and Applications] Kyoto, Japan 8/73
- 25-29 **Vacuum** [International Union for Vacuum Science, Technique and Applications] Kyoto, Japan 8/73
- 26-28 **Coherent Structures in Turbulence** [Fluid Dynamics Group, the Inst of Sound and Vibration Research] Southampton, UK 11/73
- 26-29 **Atomic and Molecular Physics** [IOP] Univ College, Swansea, UK 7/73
- 26-29 **The 142nd Meeting** [AAS] Univ of Nebraska, Lincoln 11/73
- 27, 28 • **Speckle Phenomena and Their Applications** [IOP] Loughborough, UK (*Meetings Officer, IOP, 47 Belgrave Sq, London SW1X 8QX, UK*)
- 27-29 **Nuclear Structure and High-Energy Physics** [IOP] Univ of Glasgow, UK 7/73
- 28, 29 • **Nuclear Medicine** [British Nuclear Medicine Soc] London (E. R. Davies, *British Nuclear Medicine Soc, Radiodiagnostic Dept, Bristol Royal Infirmary, Bristol BS2 8HW, UK*)
- 29, 30 • **New England Bioengineering Conf** [IEEE; American Society for Engineering Education] Worcester, Mass. (R. A. Peura, *Biomedical Engineering Program, Worcester Polytechnic Inst, Worcester, Mass. 01609*) [12/15/73]
- ~31-4 **Advances in Polymer Friction and Wear** [American Chemical Society] Los Angeles, Calif. [11/1/73] 12/73

APRIL 1974

- 1-3 **Annual Meeting** [Atomic Energy Society of Japan] Sendai, Japan 10/73
- 1-3 **High-Field Phenomena Including Electrets** [Dielectrics Discussion Group] Univ of Swansea, UK 9/73
- 1-3 **Vacuum Group Meeting** [IOP] Liverpool, UK 8/73
- 2-4 **Fast Reactor Safety** [Los Angeles Section and Technical Group for Reactor Safety, American Nuclear Society] Beverley Hills, Calif. 10/73
- 2-4 □ **Mechanical Properties of Materials at High Rates of Strain** [IOP Materials Testing Group] Univ of

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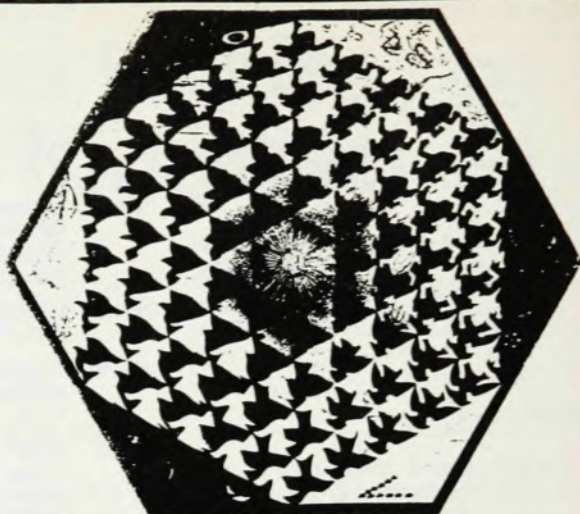


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New 1974

INTRODUCTORY ELECTRONICS FOR SCIENTISTS AND ENGINEERS

Robert Simpson, University of New Hampshire. 1974, est. 500 pp.

New 1974

MODERN ASTRONOMY, 2ND EDITION

D. Scott Birney, Wellesley College. Designed for a 1 semester introductory course for the liberal arts major, this new second edition has been extensively revised. Through expanded coverage of new observational techniques, the author describes astronomical classification and analysis. (New color photographs are included). 1974, paperbound, est. 448 pp.

New 1974

PRINCIPLES OF ASTRONOMY, A Short Version

Stanley P. Wyatt and James B. Kaler, both of the University of Illinois. This brief and updated version of Dr. Wyatt's new text *Principles of Astronomy*, 2nd Ed, concisely covers contemporary astronomy within the context of broad principles of astronomy rather than in a chronological or historical framework. This new text can be used in either a 1 or 2 semester course in introductory astronomy. 1974, paperbound, est. 592 pp.

New 1974

ASTRONOMY: Observational Activities and Experiments

Michael Gainer, Saint Vincent College. This manual is designed to encourage the non-science student to learn more about astronomy through participation — either with or without a telescope. 1974, paperbound, est. 144 pp.

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John A. McAlexander, Central Piedmont Community College. 1973, 286 pp.

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- Oxford, UK 11/73
- 2-4 **Reliability Physics Symp** [IEEE] Las Vegas, Nev. [11/13/73] 12/73
- 2-5 • **Reactor Congress** [Deutsches Atomforum e.V.; Kerntechnischen Gesellschaft] Berlin, West Germany (G. Bruck, Haus X, Allianzplatz, 53 Bonn 1, West Germany)
- 3, 4 **Contacts to Semiconductors** [IOP] Univ of Manchester Inst of Science and Tech, UK 9/73
- 3-5 • **Experimental Thermodynamics** [Experimental Thermodynamics Conf Committee] Leeds, UK (G. Pilcher, Secretary, c/o Dept of Chemistry, Univ of Manchester, Manchester, M13 9PL, UK)
- 4, 5 **Magnetic Resonance in Condensed Phases including Heterogeneous Systems** [British Radio Spectroscopy Group] Nottingham, UK 8/73
- 5, 6 • **Joint Meeting** [AAPT-SPS] Scranton, Pa. (J. R. Kalafut, Dept of Physics, Univ of Scranton, Scranton, Pa. 18510) [3/4/74]
- 5, 6 • **New England Section Meeting** [APS] Providence, R. I. (W. Massey, Physics Dept, Brown Univ, Providence, R. I. 02912)
- 5, 6 • **Teaching Acoustics and the Physics of Music** [Univ of Iowa; Michigan State Univ] Iowa City, Iowa (W. M. Hartmann, Michigan State Univ, Dept of Physics, East Lansing, Mich. 48824) [3/15/74]
- 5-9 **French Physical Society—IOP Centenary Conference** [French Physical Society; IOP] St Helier, Jersey, Channel Islands 6/73
- 7-12 **Geoscience Electronics** [IEEE] Washington, D. C. 9/73
- 8-10 **Engineering Aspects of Magneto-hydrodynamics** [Univ of Tenn. Space Inst] Tullahoma, Tenn. [12/14/73] 10/73
- 8-10 **Crystallography Group Meeting** [IOP] Oxford, UK 8/73
- 9, 10 **Microstructure and Physical Properties of Nonmetallic Materials** [Materials Science Club] Univ of Lancaster, UK 9/73
- 9-11 **Optical Computing Conference** [IEEE] Zurich, Switzerland [11/15/73] 12/73
- 9-11 □ **Thin Films** [IOP] Falmer, UK 8/73
- 16-18 **Optical and Acoustical Micro-Electronics** [Polytechnic Inst of New York; Air Force Office of Scientific Research; ONR; Army Research Office; IEEE; OSA] Brooklyn, N. Y. [12/1/73] 7/73
- 16-18 **Technology of Controlled Nuclear Fusion** [ANS] San Diego, Calif. 7/73
- 16-19 **Electron Spectroscopy—Progress in Research and Applications** [Facultés Universitaires de Namur; Belgian Chemical and Physical Societies] Namur, Belgium [2/1/74] 12/73

- 17-19 • **Negative Ions** [IOP] Liverpool, UK (Meetings Officer, IOP, 47 Belgrave Sq, London, SW1X 8QX, UK)
- 18-24 **Excited States of Biological Molecules—International Conference** [Calouste Gulbenkian Foundation; European Protochemical Assn] Lisbon, Portugal 10/73
- 19, 20 • **SPS Regional Meeting** [SPS] Fayetteville, Ark. (D. O. Pederson, Dept of Physics, Univ of Arkansas, Fayetteville, Ark. 72701)
- 20 • **Physics Teachers** [AAPT Iowa Section] Fayette, Iowa (P. Smith, Coe College, Cedar Rapids, Iowa 52402)
- 22-24 **Polymer Spectroscopy** [IOP] Brunel Univ, UK 8/73
- 22-25 □ **Joint Meeting** [APS-OSA]

Washington, D. C. [1/25/74] 5/73

- 22-26 **Anomalous Scattering by X-rays, Neutrons and Electrons** [International Union of Crystallography] Madrid, Spain 6/73
- 23-26 **Acoustics** [ASA] New York, N. Y. 5/73
- 24, 25 **Aerospace Nuclear Systems for Power and Propulsion** [ANS; AIAA] Los Angeles, Calif. 8/73
- 26, 27 • **AAPT Colorado-Wyoming Section** [AAPT] Laramie, Wyo. (M. Iona, Secretary, Col.-Wyo. Section, Dept of Physics, Univ of Denver, Denver, Col. 80210)
- 26, 27 • **Experimental Meson Spectroscopy** [NSF; AEC] Boston, Mass. (B. Cairns, Physics Dept, Northeastern Univ, Boston, Mass. 02115)

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Translation Journals

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- 11-13 • **Effects of Radiation on Structural Materials** [American Soc for Testing and Materials] Gatlinburg, Tenn. (J. Wheeler, American Soc for Testing and Materials, 1916 Race St, Philadelphia, Pa. 19103) [10/15/73]
- 11-14 **Nuclear Medicine** [Society for Nuclear Medicine] San Diego, Calif. 9/73
- 11-14 • **Solar X and Gamma Radiation** [Int Astronomical Union; Committee on Space Research] Buenos Aires, Argentina (K. A. Anderson, Space Sciences Lab, Univ of Calif., Berkeley, Calif. 94720)
- 12-14 **International Microwave Symp.** [IEEE] Atlanta, Ga. 10/73
- 12-14 **Electromagnetic Windows** [ONR] Atlanta, Ga. 9/73
- 13, 14 **General Meeting** [APS] Salt Lake City, Utah [4/5/74] 9/73
- 17-19 **Fluid and Plasmadynamics** [AIAA] Palo Alto, Calif. 8/73
- 17-20 **Thermography** [European Thermographic Assn; American Thermographic Society] Amsterdam, Netherlands 6/73
- 17-21 • **Fusion Technology** [FOM-Inst voor Plasmafysica] Noordwijkerhout, Netherlands (Conf Secretariat 8th, SOFT, FOM-Inst voor Plasmafysica, Rijnhuizen, PO Box 7, Jutphaas, Netherlands)
- 18-21 • **Planetary Satellites** [Int Astronomical Union, COSPAR] Ithaca, N. Y. (J. A. Burns, 111 Thurston Hall, Cornell Univ, Ithaca, N. Y. 14850) [3/15/74]
- 19-21 **Satellite Dynamics: Orbit and Attitude** [Committee on Space Research; Int Astronomical Union] São Paulo, Brasil [3/1/74] 12/73
- 20-22 **General Meeting** [AAPT] Boone, N. C. 7/73
- 20-22 **RF Plasma Heating** [APS; IEEE] Texas Tech Univ, Lubbock, Texas 12/73
- 23-28 **20th Annual Meeting** [ANS] Philadelphia, Pa. 6/73
- 24-27 • **Surface Properties of Materials** [Graduate Center for Materials Research] Rolla, Mo. (L. L. Leverson, Graduate Center for Materials Research, Univ of Missouri, Rolla, Mo. 65401) [4/30/74]
- 24-28 **Gas Cooled Reactors** [IAEA] Jülich, West Germany 11/73
- 24-29 **Numerical Methods for Fluid Mechanics** [International Committee for Fourth International Conf on Numerical Methods in Fluid Mechanics] Univ of Colorado, Boulder [12/31/73] 11/73
- 26-28 **Surface Physics—3rd International Symposium** [IUPAP] Utrecht, The Netherlands [2/1/74] 10/73

JULY 1974

- 1-4 **Liquid and Solid Helium** [EPS Low Temperature Physics Section] Haifa, Israel [5/15/74] 11/73
- 1-5 • **Cosmic Plasma Physics—2nd**

European Conf [EPS] Abingdon, UK (The Conf Office, 2nd European Conf on Cosmic Plasma Physics, UKAEA Research Group, Culham Lab, Abingdon, Berkshire OX14 3DB, UK)

- 1-5 **Precision Electromagnetic Measurements** [Royal Society; Inst of Electrical Engineers; Union Radio-Scientifique International; Inst of Electronic and Radio Engineers; National Physical Laboratory; Scientific Instrument Manufacturers' Assn.] London, UK 8/73
- 2-4 **Neutron Activation Analysis—3rd Symposium on Recent Developments** [Symposium Organizing Committee] Cambridge, UK 10/73
- 7-11 **Health Physics** [Health Physics Society] Houston, Tex. 9/73
- 9-12 **Electromagnetic Wave Theory** [Inst of Electrical Engineers] London, UK 8/73
- 9-12 **Inter-relation of Structure, Properties and Applications of Polymers** [IOP] Univ of Nottingham, UK 12/73
- 9-12 **Kinetics of Chemical Reactions in Heterogeneous Systems** [Société de Chimie physique] Dijon, France 11/73
- 14-20 **Radiation Research—Fifth International Congress** [International Assn for Radiation Research; Radiation Research Society] Seattle, Wash. [2/1/74] 12/73
- 15-17 **Thermophysics and Heat Transfer** [AIAA; American Society of Mechanical Engineers] Boston, Mass. 6/73
- 15-19 **Discharges and Electrical Insulation in Vacuum—6th International Symposium** [Organizing Committee] Swansea, UK [3/31/74] 10/73
- 15-19 **Dynamic Studies with Radioisotopes in Clinical Medicine and Research** [AEA] Knoxville, Tennessee 11/73
- 15-19 **Physics of Semiconductors** [IUPAP] Stuttgart, West Germany 5/73
- 15-20 **Rarefied Gas Dynamics** [9th International Symposium on Rarefied Gas Dynamics] Gottingen, West Germany [12/1/73] 10/73
- 16-19 **Atomic Spectroscopy—6th Conference** [European Group for Atomic Spectroscopy] Berlin 11/73
- 18, 19 **Materials for Medical Use** [IOP; Biological Engineering Society] Cambridge, UK 8/73
- 21-24 • **Photoconductor Image Technology—Theory and Practice** [Soc of Photographic Scientists and Engineers] North Randall, Ohio (E. S. Baltazzi, R&D Center, Addressograph-Multigraph Corp., 19701 South Miles Rd, Waresville Heights, Ohio 44128)
- 22-26 **Atomic Physics—4th International Conf** [Organizing Committee] Heidelberg, West Germany 6/73
- 22-26 • **Vacuum Ultraviolet Radiation Physics—4th Int Conf** [IUPAP; Deutsche Physikalische Gesellschaft; Deutsches Elektronen-Syn-



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- chrotron] Hamburg, West Germany (C. Kunz, DESY- F41, D-2000, Hamburg 52, Notkestieg 1, West Germany) [3/20/74]
- 23-31 **Acoustics** [British Acoustical Society; IOP; International Commission on Acoustics] London, UK 1/73
- 28-1 **Medical Physics** [AAPM] Kansas City, Mo. 6/73
- 29-1 **X-ray Processes in Matter** [Ministry of Education of Finland] Helsinki Univ of Tech. Otaniemi, Finland [5/1/74] 12/73
- 29-4 **Variable Stars in Stellar Systems** [USSR Academy of Sciences] Moscow [5/31/74] 11/73

AUGUST 1974

- 1, 2 **Microwave Acoustics** [IOP] Univ of Lancaster, UK 9/73
- 7-9 • **Applications of X-ray Analysis** [Denver Research Inst] Denver, Col. (C. O. Ruud, Metallurgy and Materials Science Div. Univ of Denver, Denver, Col. 80210)
- 12-16 **Radiological Impacts of Releases from Nuclear Facilities into Aquatic Environments** [IAEA] Otaniemi, Finland 11/73
- 14-16 **Inter- and Intra-Molecular Forces** [US National Committee for Crystallography; International Union of Crystallographers] Pennsylvania State Univ, University Park 6/73
- 18-23 □ **Use of Computers in Radiation Therapy—5th International Conf.** [Organizing Committee] Hanover, N. H. 7/73
- 19-21 **Optical Information Processing** [Australian Academy of Science; International Commission for Optics] Sydney, Australia [2/74] 6/73
- 19-21 **Fluid Dynamics Div Meeting** [APS] New Haven, Conn. [1/22/74] 5/73
- 19-22 **The 143rd Meeting [AAS]** Univ of Rochester, Rochester, N. Y. 11/73
- 19-23 **Crystallography [ACA]** Pennsylvania State Univ. 12/73
- 19-23 **Diffraction Studies of Real Atoms and Real Crystals** [International Union of Crystallography; Australian Academy of Science] Melbourne, Australia 7/73
- 19-23 • **Internal Structure of Hadrons** [APS Div. of Particles and Fields] Andover, N. H. (A. R. Erwin, Physics Dept, Univ of Wisconsin, Madison, Wis. 53706)
- 19-23 • **Tradition and Change in Physics Graduate Education [APS]** State College, Pa. (W. W. Havens Jr, APS, 335 E. 45 St, New York, N. Y. 10017)
- 21-23 **Engineering in the Ocean Environment [IEEE]** Halifax, N. S. 12/73
- 25-31 **Combustion—15th International Symposium** [Organizing Committee] Tokyo, Japan [1/1/74] 8/73

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PRINCETON APPLIED RESEARCH

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- 25-31 **Electron Microscopy—8th International Congress** [Australian Academy of Science] Canberra, Australia 8/73
- 26-28 **Nuclear Power Plant Siting** [American Nuclear Society] Portland, Ore. 10/73
- 26-30 **Environmental Impact of Cooling Systems and Thermal Discharges at Nuclear Power Stations** [IAEA] Oslo, Norway 11/73
- 26-30 **Fourth International Conf on Raman Spectroscopy** [OSA] Bowdoin College, Brunswick, Me. 11/73
- 26-30 **Optical Methods in Scientific and Industrial Measurements** [International Commission for Optics] Tokyo, Japan 8/73
- 26-30 **Spectral Lines—2nd International Conf.** [Div of Electron and Atomic Physics] Univ of Oregon 12/73
- 27-30 **Few Body Problems in Nuclear and Particle Physics** [IUPAP] Université Laval, Québec, Canada 11/73

SEPTEMBER 1974

- 2-5 • **Laser Atmospheric Studies** [American Meteorological Soc; OSA] Sendai, Japan (B. G. Schuster, 109 Norwood Hall, Univ of Missouri-Rolla, Rolla, Mo. 65401) [4/1/74]
- 2-6 **Neutron Capture, Gamma Ray Spectroscopy—2nd Int Symp** [Reactor Centrum Nederland] Petten (N. H.), The Netherlands [6/20/74] 12/73
- 2-6 **Siting of Nuclear Power Plants** [IAEA] Bordeaux, France 11/73
- 2-7 **5th Int Conf on Atmospheric Electricity** [Int Commission on Atmospheric Electricity] Garmisch-Partenkirchen, West Germany [9/15/73] 12/73
- 3-7 **Heat Transfer—5th International Conference** [Organizing Committee] Tokyo, Japan 7/73
- 4-6 **Elementary Particle Physics at Ultra-High Energies** [IOP] London, UK 9/73
- 4-6 **Thermophysical Properties of Solids at High Temperatures—4th European Conf** [Société Nationale Française des Hautes Températures et des Réfractaires] Orléans, France 12/73
- 5-7 • **Particles and Fields** [APS Div of Particles and Fields] Williamsburg, Va. (H. C. von Baeyer, Dept of Physics, College of William and Mary, Williamsburg, Va. 23185)
- 8-11 **Advanced Reactors: Physics, Economics and Design** [ANS] Atlanta, Ga. 11/73
- 9-12 • **Gas Discharges—3rd Int Conf** [Inst of Electrical Engineers] London (A. Cook, Manager, Conf Dept, the Inst of Electrical Engineers, Savoy Place, London WC2R 0BL, UK)
- 9-13 • **Nuclear Structure and Spectroscopy** [Dutch Ministerie voor Onderwijs en Wetenschappen; Dutch Physical Soc; IUPAP; EPS] Amsterdam, The Netherlands (H. P.

Blok, Natuurkundig Laboratorium der Vrije Univ, De Boelelaan 1081, Amsterdam, The Netherlands) [6/1/74]

- 9-13 **Photoelectronic Image Devices** [Imperial College, UK] London, UK 9/73
- 9-14 **Magnetic Resonance and Related Phenomena** [IOP] Univ of Nottingham, UK 6/73
- 15-19 **Thin Film Conf** [IOP] York, UK 12/73
- 16-18 **Solid-State Devices** [IOP] Nottingham, UK 8/73
- 18, 19 **Electrical Properties of Polymers** [Polymer Physics Group of IOP] Cardiff, UK 12/72
- 19, 20 **Aspects of High Speed Rotation** [IOP] Birmingham, UK 12/73
- 22-27 **9th World Energy, Conference** [Organizing Committee] Detroit, Mich. 10/73
- 23-25 **Computational Methods in Nonlinear Mechanics** [Organizing Committee] Univ. of Texas, Austin [2/1/74] 8/73
- 30-2 **Applied Superconductivity Conference** [APS; IEEE] Argonne National Lab, Argonne, Ill.; National Accelerator Lab, Batavia, Ill. [5/1/74] 12/73
- 30-4 **Nuclear Medicine—1st World Congress** [World Federation of Nuclear Medicine and Biology] Tokyo, Japan [12/31/73] 10/73
- 30-4 **Reactor Symposium** [IAEA] Vienna, Austria 11/73
- 30-4 **The Upper Atmosphere** [American Meteorological Society] Atlanta, Ga. [3/15/74] 11/73

OCTOBER 1974

- 6-11 • **Planetarium Conf** [Int Soc of Planetarium Educators] Atlanta, Ga. (J. Burgess, ISPE Program Chairman, Fernbank Science Center, Div C, 156 Heaton Park Dr, NE, Atlanta, Ga. 30307)
- 7-10 **11th Rare Earth Research Conf** [Inst for Atomic Research] Traverse City, Mich. 12/73
- 13-17 • **Electrochemical Soc Meeting** [Electronics Div] New York, N. Y. (W. A. McAllister, Westinghouse Electric Corp, Lamp Div, 1 Westinghouse Plaza, Bloomfield, N. J. 07003) [5/1/74]
- 15-18 **Annual Meeting** [OSA] Houston, Texas 7/73
- 15-19 • **Radiology and Nuclear Medicine** [Latin Country Radiologists; Italian Soc of Radiology and Nuclear Medicine] Venice, Italy (G. F. Pistolesi, Radio-Congress, Policlinico, 37100 Verona, Italy)
- 20-23 **Electron Devices** [IEEE] Washington, D. C. 9/73
- 21-24 **Population Exposures** [Health Physics Society] Knoxville, Tenn. [7/1/74]
- 21-25 **Condensed Matter—2nd Conf** [EPS] Budapest, Hungary [6/1/74] 11/73
- 21-25 **Thermodynamics of Nuclear Ma-**

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- terials [IAEA] Vienna, Austria 11/73
- 21-26 • **Physics of Condensed Matter [EPS]** Budapest, Hungary (A. Guinier, *Laboratoire de Physique des Solides, Faculté des Sciences d'Orsay, F-91 Orsay, France*)
- 31-2 **Nuclear Physics Div Meeting [APS]** Pittsburgh, Pa. [8/23/74] 9/73

NOVEMBER 1974

- 3-8 **Latin American Societies of Nuclear Biology and Medicine—5th Congress** [Latin-American Assn of Biological and Nuclear Medicine Societies] La Paz, Bolivia 11/73
- 4-7 **Plasma Physics Div Meeting [APS]** Albuquerque, N. M. 9/73
- 5-8 **Acoustics [ASA]** St Louis, Mo. 7/73
- 11-13 • **Ultrasonics Symp [IEEE]** Milwaukee, Wis. (M. Levy, *Univ of Wis., Milwaukee, Wis. 53201*)
- 10-14 **Engineering in Medicine and Biology [IEEE]** Philadelphia, Pa. 7/73

- 10-14 **Society of Exploration Geophysicists 44th Meeting** [Society of Exploration Geophysicists] Dallas, Tex. 12/73
- 11-15 **Plasma Physics and Controlled Nuclear Fusion Research [IAEA]** Tokyo, Japan 11/73
- 18-22 • **Analytical Chemistry and Spectroscopy** [Fed of Analytical Chemistry and Spectroscopy Societies] Atlantic City, N. J. (J. G. Grasselli, *Standard Oil Co. 4440 Warrensville Ctr Rd, Cleveland, Ohio 44128*)

- 25-27 **Fluid Dynamics Div Meeting** [APS Div. of Fluid Dynamics] Pasadena, Calif. [9/20/74] 10/73

DECEMBER 1974

- 1-5 **Joint Winter Meeting** [AAPM-Radiological Society of North America] Chicago, Ill. 7/73
- 2-4 **Electron and Atomic Physics Div. Meeting** [APS Electron and Atomic Physics Div] Chicago, Ill. [9/20/74] 10/73
- 3-5 **Power Semiconductors and their Applications** [Institution of Electrical Engineers] London, UK 10/73

Chautauqua-Type Short Courses

NSF Chautauqua-Type Short Courses for college teachers will be conducted during February and March 1974. Physics related courses are listed below.

Eastern Circuit

Mathematical Modeling and Computing in the Mathematical, Physical and Engineering Sciences: 18-19 Feb. at Hampshire College (R. C. Birney, *Vice President, Hampshire College, Amherst, Mass. 01002*); 21-22 Feb. at Syracuse Univ (A. T. Collette, *Dept of Science Teaching, 101 Heroy Hall, Syracuse Univ, Syracuse, N. Y. 13210*); 25-26 Feb. at the Univ of Maryland (P. I. Connors, *Dept of Physics, University of Maryland, College Park, Md. 20742*); 28 Feb.-1 March at Clark College (A. S. Spriggs, *Dept of Chemistry, Clark College, 240 Chestnut St, Atlanta, Ga. 30314*)

Computer-Augmented Education in Physical Science: 28 Feb.-1 March at Hampshire College; 18-19 Feb. at Syracuse Univ; 21-22 at the Univ of Maryland; 25-26 Feb. at Clark College (*all contacts same as above*).

Energy Problems: Demand, Supply, Environmental Costs and Political Decisions: 11-12 March at Hampshire College; 14-15 March at Syracuse Univ; 4-5 March at the Univ of Maryland; 7-8 March at Clark College (*all contacts same as above*).

Central Circuit

Biophysical Transport Phenomena: 28 Feb.-1 March at Miami Univ (C. M. Vaughn, *Dept of Zoology, Miami Univ, Oxford, Ohio 45056*); 18-19 Feb. at the Univ of Wisconsin (R. S. Hosman, *College of Engineering, Univ of Wisconsin, 1513 Univ Ave, Madison, Wis. 53706*); 21-22 Feb. at the Univ of Missouri (H. A. Mitchell, *Associate Dean, College of Arts and Sciences, Univ of Missouri, Kansas City, Mo. 64110*); 25-26 Feb. at Louisiana State Univ (H. T. Karnes, *Dept of Mathematics, Louisiana State Univ, Baton Rouge, La. 70803*)

Atmospheric Sciences: 25-26 Feb. at Miami Univ; 28 Feb.-1 March at the Univ of Wisconsin; 18-19 Feb. at the Univ of Missouri; 21-22 Feb. at Louisiana State Univ (*all contacts same as above*)

Western Circuit

Cosmology: 4-5 March at Oregon Graduate Center for Study and Research (R. Eiss, *Director of Education, Oregon Graduate Center, 19600 NW Walker Rd, Beaverton, Ore. 97005*); 7-8 March at Stanford Univ (R. G. Bridgman, *School of Education, Stanford Univ, Stanford, Calif. 94305*); 11-12 March at Harvey Mudd College (E. F. Tubbs, *Dept of Physics, Harvey Mudd College, Claremont, Calif. 91711*); 14-15 March at the Univ of Texas (A. E. Lee, *Science Education Center, Univ of Texas, Austin, Tex. 78712*)

Physics for Technical Education Programs: 18-19 March at Oregon Graduate Center for Study and Research; 21-22 March at Stanford Univ; 25-26 March at Harvey Mudd College; 28-29 March at the Univ of Texas (*all contacts same as above*)

- 3-6 **Magnetism and Magnetic Materials** [IEEE; AIP] San Francisco, Calif. 10/73
- 5-7 ☐ **General Meeting** [APS] Atlanta, Georgia 7/73
- 9-13 **Ionizing Radiation for Sterilization of Biomedical Products and Biological Tissues** [IAEA] Bombay, India 11/73
- 10-13 **The 144th Meeting** [AAS] Gainesville, Fla. 7/73
- 11-13 **Scintillation and Semiconductor Counter Symposium-Nuclear Science Symposium** [IEEE; AEC; NASA; NBS] Washington, D. C. 7/73

JANUARY 1975

- 27-2 **January Meeting** [APS-AAPT] Anaheim, Calif. 7/73

FEBRUARY 1975

- 6, 7 **Molecular Transitions and Relaxations** [Michigan Foundation for Advanced Research] Midland, Mich. 12/73
- 16-21 **Radiology-11th Inter-American Congress** [Inter-American College of Radiology] Bogota, Columbia 12/73

MARCH 1975

- 12-14 ☐ **Particle Accelerator Conf** [IEEE; NBS; APS; AEC; NSF] Washington D. C. 12/73
- 24-27 **International Convention and Exposition** [IEEE] New York, N. Y. 10/73
- 31-3 **General Meeting** [APS] Denver, Colo. 7/73

APRIL 1975

- 2-4 **Crystallography Group Meeting** [IOP Crystallography Group] Lancaster, UK 10/73
- 8-11 **Acoustics** [ASA] Austin, Tex. 7/73
- 8-11 • **Engineering Uses of Coherent Optics** [IOP] Glasgow, UK (E. R. Robertson, Dept of Mechanics of Materials, Univ of Strathclyde, Glasgow, UK)
- 9-11 **Temperature Measurement** [Materials Testing Group of IOP; Inst. of Measurement and Control; Inst of Electrical Engineers] Teddington, UK 1/73
- 14-17 **Magnetism** [IOP; IEEE; Inst of Electrical Engineers] London, UK 8/73
- 28-1 **General Meeting** [APS] Washington, D. C. 10/73

MAY 1975

- 12-14 **International Microwave Symposium** [IEEE] Palo Alto, Calif. 10/73
- 19-21 **Aerospace Electronics** [IEEE] Dayton, Ohio 10/73
- 28-30 **Laser Engineering and Applications** [IEEE] Washington, D. C. 8/73

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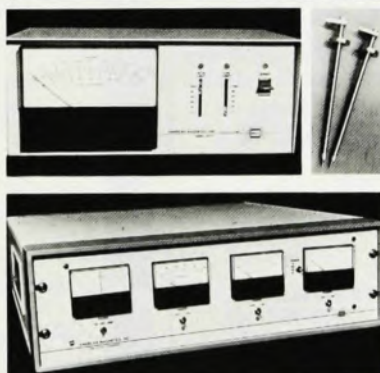
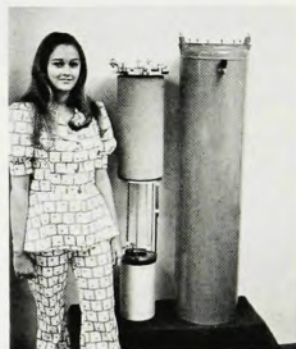
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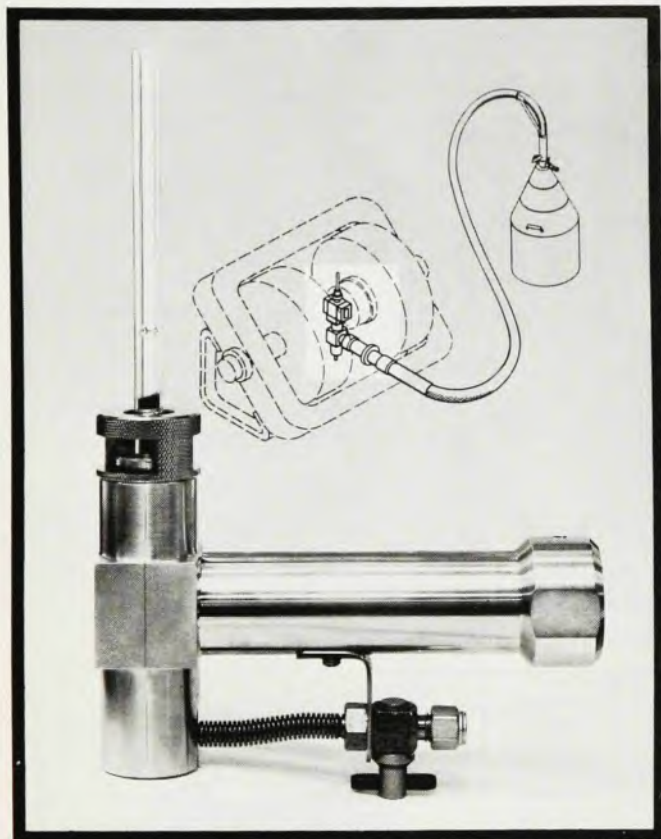
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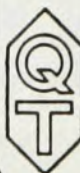
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JUNE 1975

- 15-20 **21st Annual Meeting** [American Nuclear Society] Dallas, Tex. 10/73
- 16-18 **General Meeting** [APS] Knoxville, Tenn. 10/73
- 19-21 **General Meeting** [AAPT] Boulder, Colo. 7/73

JULY 1975

- 8-12 **Phonon Scattering in Solids—2nd International Conference** [Organizing Committee] Univ of Nottingham, UK 7/73
- 13-17 **Health Physics** [Health Physics Society] Buffalo, N. Y. 10/73
- 24-30 **International Conf. on the Physics of Electronic and Atomic Collisions** [Univ of Washington] Seattle, Washington. 11/73
- 27-31 **Medical Physics** [AAPM] San Antonio, Tex. 7/73

AUGUST 1975

- 3-7 • **Medical Physics** [AAPM] San Antonio, Texas (E. Snider, AAPM, 335 E. 45th St. New York, N. Y. 10017)
- 7-15 **Crystallography** [International Union of Crystallography] Amsterdam, The Netherlands 10/73
- 17-20 **Astronomy** [AAS] San Diego, Calif. 7/73

SEPTEMBER 1975

- 1-5 • **Electronic Properties of Solids under High Pressure** [EPS; European High Pressure Research Group] Leuven, Belgium (L. van Gerven, Univ. of Leuven, Dept. of Physics, Celestijnenlaan 200 D, B-3030 Leuven, Belgium) [5/15/75]
- 15-19 **Thin Films** [IOP] York, UK 10/73

OCTOBER 1975

- 6-10 • **Analytical Chemistry and Spectroscopy** [Fed of Analytical Chemistry and Spectroscopy Societies] Indianapolis, Ind. (J. G. Grasselli, Standard Oil Co, 4440 Warrensville Ctr Rd, Cleveland, Ohio 44128)
- 12-15 **Electron Devices** [IEEE] Washington, D. C. 10/73
- 21-24 **Annual Meeting** [OSA] Boston, Mass 7/73

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New Concepts in the Theory of Magnetism in Metals and Metallic Compounds [Univ of Wroclaw] Karpacz, Poland (J. M. Kowalski, Secretary of

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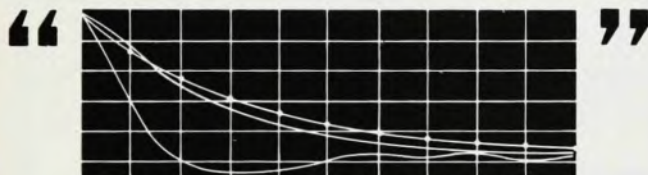
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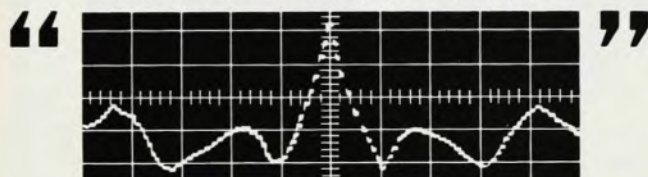
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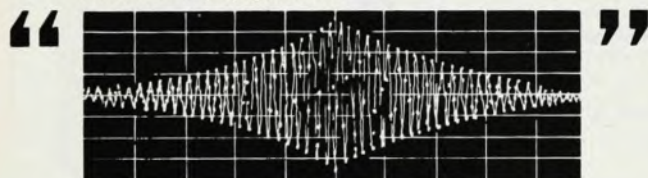
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4-15 MARCH

Inorganic Materials Preparation and Characterization [Penn State Univ]
Univ Park, Pa. (Penn State Univ, Conf
Center, J. Orvis Keller Building, Univ
Park, Pa. 16802)

18-22 MARCH

Laser Safety [Medical Laser Lab of
the Univ of Cincinnati] Cincinnati,
Ohio (Laser Safety Course, CONMED,
114 Medical College, Cincinnati, Ohio
45229)

25-27 MARCH

Laser Velocimetry [Purdue: ONR;
Army Missile Command] West Lafayette,
Ind. (H. D. Thompson, School of
Mechanical Engineering, Purdue Univ,
West Lafayette, Ind. 47907)

10-14 JUNE

Cooperative Phenomena and Phase Transitions—Principles and Applications [MIT] Cambridge, Mass. (H. E. Stanley, Rm 13-2114, MIT, Cambridge, Mass. 02139)

16-29 JUNE

School of Physics [CERN] Cartmel
Fell, Windermere, UK (D. A. Cato, Scientific
Conf Secretariat, CERN,
CH-1211 Geneve 23, Switzerland)

17-21 JUNE

Biomedical Physics and Biomaterials Science [MIT] Cambridge, Mass. (H. E. Stanley, Rm 13-2114, MIT, Cambridge, Mass. 02139)

17-21 JUNE

Surface instrumentation [Graduate
Center for Materials Research] Rolla,
Mo. (L. L. Levenson, Graduate Center
for Materials Research, Univ of Missouri,
Rolla, Mo. 65401)

21-27 JULY

Physics of Nonionizing Radiation
[AAPM] Boulder, Col. (E. L. Chaney,
1974 AAPM Summer School, Container
No. 2364, Univ of Colorado Medical
Center, Denver, Col. 80220)

29 JULY-9 AUGUST

Physics and Chemistry of Atmospheres [NATO] Liege, Belgium (B. M. McCormac, Lockheed Palo Alto
Research Lab, 3251 Hanover St, Palo
Alto, Calif. 94304)

26 AUGUST-6 SEPTEMBER

Advanced Study Inst on Nuclear Magnetic Resonance in Solids [NATO]
Leuven, Belgium (L. van Gerven, Laboratorium voor Vaste Stof-Fysika en
Magnetisme, Universiteit Leuven, Celestijnenlaan 200 D, B-3030 Leuven,
Belgium)

4-21 SEPTEMBER

Computational Techniques in Quantum Chemistry and Molecular Physics
[NATO] Berchtesgaden, West Germany (G. H. F. Dierksen, Max Planck
Inst für Physik und Astrophysik, Fohringer Ring 6, D-8000 München
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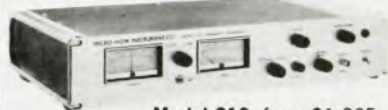
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