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 (July) 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 and the original PHYSICS TODAY reference.

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
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
AVS—American Vacuum 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
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

APRIL 1972

7, 8 □ SOCIETY OF PHYSICS STUDENTS (ZONE 10) □ Fayetteville, Arkansas *1/72*

8–12 □ AAS □ Seattle, Wash. *9/71*

9–14 **Surface Coatings** □ NATO □ London, UK *2/72*

10–12 **Acoustical Holography** □ IEEE, QUANTUM INSTITUTE OF THE UNIV. OF CALIF. □ Santa Barbara, Calif. *9/71*

10–12 **Thin Films** □ IOP □ York, UK *10/71*

10–14 **Nuclear Activation Techniques in the Life Sciences** □ IAEA □ Ljubljana, Yugoslavia *12/71*

10–14 **Orbital and Physical Parameters of Double Stars** □ INTERNATIONAL ASTRONOMICAL UNION □ Swarthmore, Pa. *3/72*

11–13 **Industrial Measurement and Control by Radiation Techniques** □ INSTITUTE OF ELECTRICAL ENGINEERS, INSTITUTE OF ELECTRICAL AND RADIO ENGINEERS, IPPS, INSTITUTE OF MEASUREMENT AND CONTROL, IEEE UK AND REPUBLIC OF IRELAND SECTION □ Surrey, UK *10/71*

11–14 □ OSA □ New York, N. Y.

12–14 **Machine Perception of Patterns and Pictures** □ IOP □ Teddington, UK *8/71*

13 **Astronomical Techniques for Atmospheric Determination** □ AAS, UNIV. OF WASHINGTON □ Seattle, Wash. *12/71*

14, 15 □ CENTRAL PENNSYLVANIA SECTION OF AAPT □ Bethlehem, Pa. *3/72*

15 □ SOCIETY OF PHYSICS STUDENTS (zone 2) □ Buffalo, N. Y. *3/72*

15 • □ MICHIGAN SECTION OF AAPT □ Mt. Pleasant, Mich. *(H. E. Pettersen, Albion College, Albion, Mich. 49224) 4/72* .

17, 18 • **Scientific and Technological Gap in Latin America** □ UNIV. OF NEBRASKA, LINCOLN □ Lincoln, Nebraska *(R. Esquenazi-Mayo, University Extension Division, Univ. of Nebraska, Lincoln, Nebraska 68508) 4/72*

APRIL 1972

17–19 **Ultrahigh Vacuum** □ VACUUM GROUP OF IOP □ Swansea, UK *12/71*

17–19 **Nuclear Physics** □ UNIV. OF BIRMINGHAM □ Birmingham, UK *9/71*

17–20 **Atomic and Molecular Physics** □ IOP SUBCOMMITTEE ON ATOMIC AND MOLECULAR PHYSICS □ Sussex, UK *10/71*

17–21 **Dosimetry Techniques Applied to Agriculture, Industry, Biology and Medicine** □ IAEA □ Prague, Czechoslovakia *11/71*

17–21 □ ASA □ Buffalo, N. Y. *6/70*

17–21 **Inner-Shell Ionization Phenomena** □ ORGANIZING COMMITTEE INTERNATIONAL CONFERENCE ON INNER-SHELL IONIZATION PHENOMENA, AEC, IUPAP, GEORGIA STATE COLLEGE □ Atlanta, Georgia *9/71*

18–20 **Trends in On-Line Computer-Control Systems** □ INSTITUTION OF ELECTRICAL ENGINEERS □ Sheffield, UK *12/71*

18–20 **Nuclear Structure and Nuclear Reactions** □ IOP □ Birmingham, UK *2/72*

19–21 • **Microelectronics** □ REGION 6 AND SAN DIEGO SECTION OF IEEE □ San Diego, Calif. *(D. C. Kalbfell, Instruments Inc, P. O. Box 10764, San Diego, Calif. 92110) 4/72*

21, 22 • □ SPS (ZONE 11), UNIV. OF UTAH □ Salt Lake City, Utah *(E. M. Jaehne, 201 North Physics, Univ. of Utah, Salt Lake City, Utah 84112) 4/72*

21, 22 • □ SPS (NEW ENGLAND), MIT □ Cambridge, Mass. *(S. Price, Box 208, 3 Ames St, Cambridge, Mass. 02139) 4/72*

22 • □ SPS (ZONE 1) □ Cambridge, Mass. *(S. J. Price, Box 208, 3 Ames St, Cambridge, Mass. 02139) 4/72*

24 □ SOCIETY OF PHYSICS STUDENTS (zone 4) □ Washington, D. C. *3/72*

24, 25 • **Mass Spectrometry** □ INSTRUMENT PRODUCTS DIVISION OF DU PONT CO □ Wilmington, Delaware *(T. R. Garrett, Du Pont Instruments, 1500 S. Shamrock Ave, Monrovia, Calif. 91016) 4/72*

24–26 **Speech Communication and Processing** □ IEEE GROUP ON AUDIO AND ELECTROACOUSTICS, AIR FORCE CAMBRIDGE RESEARCH LABS □ Boston, Mass. *7/71*

24–27 □ APS □ Washington, D. C.

25, 26 • **Scanning Electron Microscope** □ ILLINOIS INSTITUTE OF TECHNOLOGY □ Chicago, Ill. *(O. Johari, Metals Division, Illinois Institute of Technology, 10 W. 35th St, Chicago, Ill. 60616) 4/72*

27, 28 **Low-Energy Electron Diffraction** □ ELECTRON AND ATOMIC PHYSICS DIVISION OF APS □ Washington, D. C. *9/71*

28 □ SOCIETY OF PHYSICS STUDENTS (ZONE 8) □ Platteville, Wisconsin *1/72*

28, 29 **Experimental Meson Spectroscopy** □ UNIV. OF PENNSYLVANIA □ Philadelphia, Pa. *9/71*

28, 29 • **Novel Demonstration Experiments** □ AAPT WISCONSIN SECTION □ Platteville, Wisc. *(R. Uber, Cowley Hall, Wisconsin State Univ., 1707 Pine St, La Crosse, Wisc. 54601) 4/72*

29 □ AAPT IOWA SECTION □ Iowa City, Iowa *2/72*

30–3 • **Nuclear Controversy in the US** □ ATOMIC INDUSTRIAL FORUM, SWISS ASSOCIATION FOR ATOMIC ENERGY □ Lucerne, Switzerland *(Atomic Industrial Forum Inc, 475 Park Ave South, New York, N. Y. 10016) 4/72*

30–4 **Environmental Progress in Science and Education** □ INSTITUTE OF ENVIRONMENTAL SCIENCES □ New York, N. Y. *11/71*

MAY 1972

1 • **Memory Materials and Devices** □ GREATER NEW YORK CHAPTER, THIN FILM DIVISION, AMERICAN VACUUM SOCIETY □ Princeton, N. J. *(W. E. Loeb, Union Carbide Corp, Chemicals and Plastics Division, 1 River Rd, Bound Brook, N. J. 08805) 4/72*

1–3 **Chemical and Molecular Lasers** □ ORGANIZING COMMITTEE OF 3RD CONFERENCE ON CHEMICAL AND MOLECULAR LASERS □ St. Louis, Mo. *2/72*

1–3 **Applied Superconductivity** □ IEEE, APS, DEPARTMENT OF NAVY NSF, NASA □ Annapolis, Md. *9/71*

2–4 • **Photovoltaics** □ IEEE □ Silver Spring, Md. *(R. E. Fischell, Applied Physics Laboratory, Johns Hopkins Univ., Silver Spring, Md.) 4/72*

2–4 **Advances in Chemistry and Physics of Coal and Coke** □ CZECHOSLOVAK ACADEMY OF SCIENCES □ Liblice, Czechoslovakia *3/72*

2–5 **Titanium** □ ORGANIZING COMMITTEE OF THE SECOND CONFERENCE ON TITANIUM □ Cambridge, Mass. *5/71*

3–5 • **Radiation Protection** □ INTERNATIONAL RADIATION PROTECTION ASSOCIATION, HUNGARIAN ACADEMY OF SCIENCES, HUNGARIAN ATOMIC ENERGY COMMISSION, HEALTH PHYSICS SECTION OF EÖTVÖS LÓRÁND PHYSICAL SOCIETY, IAEA □ Budapest, Hungary *(D. L. Bozóky, National Oncological Institute, Ráth Gy. u. 7, Budapest XII, Hungary) 4/72*

7–11 **Quantum Electronics** □ IEEE, AIP, OSA, APS □ Montreal, Canada *10/70*

7–12 □ ELECTRONICS DIVISION OF THE ELECTROCHEMICAL SOCIETY □ Houston, Tex. *12/71*

7–12 • **Electron and Ion Beams** □ ELECTROCHEMICAL SOCIETY □ Houston, Tex. *(R. Bakish, 171 Sherwood Place, Englewood, N. J. 07631) 4/72*

11–13 **X- and Gamma-Ray Astronomy** □ INTERNATIONAL ASTRONOMICAL UNION □ Madrid, Spain *3/72*

14–18 • **Radiation Research** □ RADIATION RESEARCH SOCIETY □ Portland, Ore. *(R. J. Burk Jr, Radiation Research Society, 4211 39th St N. W., Washington, D. C. 20016) 4/72*

15–18 **Neutron Dosimetry in Biology and Medicine** □ SOCIETY FOR RADIATION AND ENVIRONMENTAL RESEARCH □ Neuherberg, Germany *12/71*

15–19 **Thin Films** □ INTERNATIONAL THIN FILM COMMITTEE, ITALIAN PYHSICAL SOCIETY, ITALIAN ELECTRICAL AND ELECTRONIC ASSOCIATION □ Venice, Italy *7/71*

16–20 **Applied Quantum Chemistry** □ CZECHOSLOVAK ACADEMY OF SCIENCES □ Liblice, Czechoslovakia *3/72*

21–24 **Underground Transmission** □ IEEE POWER ENGINEERING SOCIETY □ Pittsburgh, Pa. *10/71*

22–25 **Microwaves** □ IEEE □ Chicago, Ill. *9/71*

23–26 **Vapor Growth and Epitaxy** □ INTERNATIONAL COMMITTEE OF CRYSTALLINE GROWTH, ISRAEL SOCIETY FOR GROWTH OF CRYSTALS AND THIN FILMS □ Jerusalem, Israel *2/72*

23–28 **Pion–Nucleon Scattering** □ Schwarzwald, Germany *(G. Hohler, Lehrstuhl Theor. Kernphysik, Kaiserstr. 12, 75 Karlsruhe, Germany) 4/72*

24, 25 • **Design and Visual Interface of Biocular Systems** □ OSA □ Annapolis, Md. *(J. W. Quinn, OSA, 2100 Pennsylvania Ave N. W., Washington, D. C. 20037) 4/72*

24–26 **Cryogenic Engineering** □ INTERNATIONAL CRYOGENIC ENGINEERING COMMITTEE, EINDHOVEN UNIV. OF TECHNOLOGY □ Eindhoven, The Netherlands *(H. M. Gijsman, Eindhoven Univ. of Technology, P. O. Box 513, Eindhoven, The Netherlands) 4/72*

28–31 **Plasma Engineering and Physics** □ CZECHOSLOVAK ACADEMY OF SCIENCES □ Prague, Czechoslovakia *3/72*

29–2 **Interstellar Dust and Related Topics** □ INTERNATIONAL ASTRONOMICAL UNION □ Albany, N. Y. *3/72*

29–2 **Power from Radioisotopes** □ SPANISH NUCLEAR-ENERGY GROUP, ORGANIZATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT'S EUROPEAN NUCLEAR ENERGY AGENCY □ Madrid, Spain *2/72*

JUNE 1972

4–6 **Mass Spectrometry** □ AMERICAN SOCIETY OF MASS SPECTROMETRY, COMMITTEE E-14 OF AMERICAN SOCIETY FOR TESTING AND MATERIALS □ Dallas, Tex. *1/72*

5–7 □ APS □ Albuquerque, New Mexico *12/71*

5–7 **Sintering and Related Phenomena** □ ALFRED UNIV., UNIV. OF CALIF. AT BERKELEY, NORTH CAROLINA STATE UNIV., UNIV. OF NOTRE DAME □ Notre Dame, Indiana *2/72*

5–8 • **Electric Contact Phenomena** □ Chicago, Ill. *(R. E. Armington, Illinois Institute of Technology, Dept. of Electrical Engineering, Chicago, Ill. 60616) 4/72*

5–16 **Human Environment** □ UNITED NATIONS □ Stockholm, Sweden *3/72*

11–14 **Nuclear Reactors and Radioisotopes** □ CANADIAN NUCLEAR ASSOCIATION □ Ottawa *11/69*

12–16 • **Molecular Structure and Spectroscopy** □ OHIO STATE UNIV. □ Columbus, Ohio *(K. N. Rao, Dept. of Physics, Ohio State Univ., 174 West 18th Ave, Columbus, Ohio 43210) 4/72*

12–17 □ HEALTH PHYSICS SOCIETY □ Las Vegas, Nev. *10/71*

12–17 **Pollution: Engineering and Scientific Solutions** □ SOCIETY OF ENGINEERING SCIENCE, ENVIRONMENTAL PROTECTION AGENCY, NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION, WASHINGTON UNIV. □ Tel Aviv, Israel *1/72*

14–16 □ HEAT TRANSFER AND FLUID MECHANICS INSTITUTE □ Northridge, Calif. *11/71*

18–22 □ AMERICAN NUCLEAR SOCIETY □ Las Vegas, Nev. *10/71*

19–22 **Vacuum Metallurgy** □ VACUUM METALLURGY DIVISION OF AVS, PITTSBURGH CHAPTER OF AMERICAN SOCIETY FOR METALS □ Pittsburgh, Pa. *1/72*

20–23 **Thermophysical Properties of Solids at High Temperature** □ G. COLONNETTI METROLOGICAL INSTITUTE OF THE NATIONAL RESEARCH COUNCIL OF ITALY, INDUSTRIAL UNION OF TURIN □ Turin, Italy *12/71*

20–24 **Many-Body Reactions** □ INSTITUTE OF NUCLEAR PHYSICS, INSTITUTE FOR NUCLEAR RESEARCH □ Tatra Mountains, Poland *1/72*

21–23 **Coherence and Quantum Optics** □ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH, UNIV. OF ROCHESTER □ Rochester, N. Y. *1/72*

21–23 **Role and Value of Measurement** □ ELECTRONICS DIVISION OF THE AMERICAN SOCIETY FOR QUALITY CONTROL, GROUP ON INSTRUMEN-

JUNE 1972

TATION AND MEASUREMENT OF IEEE, METROLOGY DIVISION OF INSTRUMENT SOCIETY OF AMERICA, NBS, NATIONAL CONFERENCE OF STANDARDS LABS, PRECISION MEASUREMENT ASSOCIATION ☐ Boulder, Colo. *1/72*

22, 23 **Surface Physics** ☐ IUPAP ☐ Enschede, The Netherlands *2/72*

22–24 ☐ AAPT ☐ Albany, N. Y. *6/70*

26–28 **Effects of Radiation on Structural Metals** ☐ AMERICAN SOCIETY FOR TESTING AND MATERIALS ☐ Los Angeles, Calif. *10/71*

26–29 **Precision Electromagnetic Measurements** ☐ IEEE ☐ Boulder, Colo. *10/71*

26–29 ☐ AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE ☐ Philadelphia, Pa. *11/71*

26–30 **Microscopy** ☐ INTER/MICRO-72 ☐ Chicago, Ill. *1/72*

26–4 **Magnetohydrodynamic Phenomena in Rotating Fluids** ☐ NATO ADVANCED STUDY INSTITUTE ☐ Cambridge, UK *3/72*

JULY 1972

3–5 **Band Structure in Solids** ☐ SOLID STATE PHYSICS SUB-COMMITTEE OF IPPS ☐ Exeter *10/70*

3–6 **Phonon Scattering in Solids** ☐ FRENCH ATOMIC ENERGY COMMISSION RESEARCH AND TESTING DIRECTORATE ☐ Paris, France *2/72*

3–6 • **Pulsed High-Beta Plasmas** ☐ MAX PLANCK INSTITUTE FOR PLASMA PHYSICS ☐ Garching, Germany *(W. Lotz, Max Planck Institute for Plasma Physics, D-8046 Garching, Germany) 4/72*

3–7 • **Nuclear Magnetic Resonance Spectroscopy** ☐ NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY DISCUSSION GROUP OF THE CHEMICAL SOCIETY ☐ Guildford, UK *(J. F. Gibson, Chemical Society, Burlington House, London W1V OBN, UK) 4/72*

10–13 • **Vacuum Instruments and Methods in Surface Studies** ☐ BRITISH VACUUM COUNCIL, INTERNATIONAL UNION FOR VACUUM SCIENCE TECHNIQUE AND APPLICATIONS ☐ Guildford, UK *(Secretary, British Vacuum Society, 47 Belgrave Square, London SW1X 8QX, UK) 4/72*

10–14 **Rarefied Gas Dynamics** ☐ STANFORD UNIV. ☐ Stanford, Calif. *10/71*

17, 18 **Failure of Fiber-Reinforced Composite Materials** ☐ MATERIALS AND TESTING GROUP OF IOP ☐ Guildford, UK *12/71*

17–21 **Reactivity of Solids** ☐ CHEMICAL SOCIETY, INSTITUTE OF METALS, BRITISH CERAMIC SOCIETY ☐ Bristol, UK *2/72*

17–21 **Electron Probe Analysis** ☐ ELECTRON PROBE ANALYSIS SOCIETY OF AMERICA ☐ San Franciso, Calif. *2/72*

18–21 **Cyclotrons** ☐ Vancouver, B. C., Canada *10/70*

19–21 **Defects in Semiconductors** ☐ IOP ☐ Reading, UK *8/71*

19–22 **Calorimetry** ☐ ORGANIZING COMMITTEE OF 27TH CALORIMETRY CONFERENCE ☐ Park City, Utah *1/72*

20–26 **Teaching Physics to Students in Physics-Related Sciences and Professions** ☐ IUPAP COMMISSION ON PHYSICS EDUCATION, GERMAN NATIONAL COMMITTEE OF PHYSICS ☐ Kiel, Germany *2/72*

24–27 • **Nuclear and Space Radiation Effects** ☐ IEEE, UNIV. OF WASHINGTON ☐ Seattle, Wash. *(B. L. Gregory, Division 1933, Sandia Labs, Albuquerque, N. M. 87115) 4/72*

24–28 **Conduction and Breakdown in Dielectric Liquids** ☐ ENGINEERING SCHOOLS OF UNIVERSITY COLLEGE AND TRINITY COLLEGE ☐ Dublin, Ireland *3/72*

25–28 **Magnetism** ☐ MAGNETISM SECTION OF CONDENSED MATTER DIVISION OF EUROPEAN PHYSICAL SOCIETY ☐ Bochum, West Germany *1/72*

25–29 **Physics of Semiconductors** ☐ IUPAP, POLISH ACADEMY OF SCIENCES, UNIV. OF WARSAW ☐ Warsaw, Poland *10/71*

30–3 **Crystal Growth** ☐ AMERICAN ASSOCIATION FOR CRYSTAL GROWTH ☐ Princeton, N. J. *2/72*

31–5 • **Nuclear-Structure Study with Neutrons** ☐ DEPT. OF MATHEMATICAL AND PHYSICAL SCIENCES OF HUNGARIAN ACADEMY OF SCIENCES, NATIONAL ATOMIC ENERGY COMMISSION OF HUNGARY, EÖTVÖS LORÁND PHYSICAL SOCIETY, IUPAP, IAEA ☐ Keszthely, Hungary *(D. Kiss, Dept. of High-Energy Physics, Central Research Institute of Physics, P. O. Box 49, Budapest, Hungary) 4/72*

AUGUST 1972

2–4 • **Applications of X-Ray Analysis** ☐ ORGANIZING COMMITTEE OF 21ST ANNUAL DENVER CONFERENCE ON APPLICATIONS OF X-RAY ANALYSIS ☐ Denver, Colo. *(C. O. Ruud, Metallurgy and Materials Science Division, Denver Research Institute, Univ. of Denver, Denver, Colo. 80210) 4/72*

7–11 **Atomic Physics** ☐ IUPAP ☐ Boulder, Colo. *2/72*

9–11 • **Cryogenic Engineering** ☐ CRYOGENIC SOCIETY OF AMERICA ☐ Boulder, Colo. *(D. B. Carse, Cryogenic Society of America, P. O. Box 1147, Huntington Beach, Calif. 92647) 4/72*

14–17 **Materials Technology** ☐ BRA-

NEW LISTING OF SHORT COURSES AND SCHOOLS

5–9 JUNE

Laser Raman Spectroscopy □ UNIV. OF MARYLAND'S CENTER OF MATERIALS RESEARCH, CONFERENCES AND INSTITUTES DIVISION OF THE ADULT EDUCATION CENTER OF THE UNIV. OF MARYLAND □ College Park, Md. *(E. R. Lippincott, Laser Raman Institute, Center for Materials Research, Univ. of Maryland, College Park, Md. 20742)*

5–16 JUNE

Fundamentals of X-Ray Diffraction □ POLYTECHNIC INSTITUTE OF BROOKLYN □ Brooklyn, N. Y. *(B. Post, Polytechnic Institute of Brooklyn, 333 Jay St, Brooklyn, N. Y. 11201)*

Topics: Interpretation of powder and single-crystal patterns, reflection and transmission topography, crystal structure, crystal texture, line broadening, stress–strain analysis.

12–16 JUNE

Cooperative Phenomena and Phase Transitions □ MASSACHUSETTS INSTITUTE OF TECHNOLOGY □ Cambridge, Mass. *(Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)*

12 JUNE–4 AUGUST

Fluid Mechanics of the Environment □ NATIONAL SCIENCE FOUNDATION, COLORADO STATE UNIV. □ Fort Collins, Colo. *(J. E. Cermak, Fluid Mechanics Program, Colo. State Univ., Fort Collins, Colo. 80521)*

Topics: Geophysical fluid mechanics, turbulent diffusion, data processing, numerical analysis, instrumentation and measurements.

16 JUNE–6 JULY

High-Energy Astrophysics and its Relation to Elementary-Particle Physics □ NATO □ Sicily, Italy *(G. Burbidge, Dept of Physics, Univ. of Calif. at San Diego, La Jolla, Calif. 92037)*

19–23 JUNE

Biomedical Physics and Biomaterials Science □ MASSACHUSETTS INSTITUTE OF TECHNOLOGY □ Cambridge, Mass. *(Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)*

19–30 JUNE

Design and Analysis of Experiments in the Physical, Medical and Industrial Sciences □ MASSACHUSETTS INSTITUTE OF TECHNOLOGY □ Cambridge, Mass. *(Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)*

2–14 JULY

Padé Approximants and their Applications □ NATO ADVANCED STUDY INSTITUTE □ Kent, UK *(A. K. Common, School of Mathematics, Univ. of Kent, Canterbury, Kent, UK)*

7–29 JULY

Subnuclear Physics: Highlights in Particle Physics □ Sicily, Italy *(A. Zichichi, University of Bologna, Via Irnerio 46, I-40126 Bologna, Italy) 4/72*

7–11 AUGUST

Detection of Infrared Radiation □ UNIV. OF CALIF. AT SANTA BARBARA □ Santa Barbara, Calif. *(Director, Basic and Applied Sciences, Univ. of Calif. Extension, Santa Barbara, Calif. 93106)*

Topics: Detector physics, fabrication, performance and applications.

7–11 AUGUST

Laser Safety □ MEDICAL LASER LABORATORY AND CONTINUING MEDICAL EDUCATION OFFICE OF THE UNIV. OF CINCINNATI □ Cincinnati, Ohio *(R. J. Rockwell, Laser Laboratory, Children's Hospital Research Foundation, Cincinnati, Ohio 45229)*

14–18 AUGUST

Micrometeorology □ AMERICAN METEOROLOGICAL SOCIETY □ Boston, Mass. *(K. C. Spengler, American Meteorological Society, 45 Beacon St, Boston, Mass. 02108)*

4–15 SEPTEMBER

Electronic Materials □ GUIDO DONEGANI FOUNDATION OF THE ACCADEMIA NAZIONALE DEI LINCEI □ Lake Como. Italy *(U. Colombo, Strategic Planning, Montecatini Edison S.p.A., Largo Donegani, 2, 20121 Milan, Italy)*

ZILIAN NATIONAL RESEARCH COUNCIL, ORGANIZATION OF AMERICAN STATES, FORD FOUNDATION □ Rio de Janeiro, Brazil *10/71*

14–18 **Physics and Chemistry of Ice** □ ROYAL SOCIETY OF CANADA □ Ottawa, Canada *1/71*

14–18 • **Cosmochemistry** □ INTERNATIONAL ASSOCIATION OF GEOCHEMISTRY AND COSMOCHEMISTRY □ Cambridge, Mass. *(A. G. W. Cameron, Belfer Graduate School of Science, Yeshiva Univ., 2495 Amsterdam Ave, New York, N. Y. 10033)* [6/1/72] *4/72*

14–18 • □ AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE □ Sydney, Australia *(E. L. Freedman, Australian and New Zealand Association for the Advancement of Science, Science House, 157 Gloucester St, Sydney, NSW 2000, Australia) 4/72*

20–25 **Combustion** □ PENNSYLVANIA STATE UNIV., COMBUSTION INSTITUTE □ University Park, Pa. *8/71*

20–26 **Low-Temperature Physics** □ IUPAP, NBS, UNIV. OF COLO. □ Boulder, Colo. *10/71*

21–25 **Extended Atmospheres and Circumstellar Matter in Spectroscopic Binary Systems** □ INTERNATIONAL ASTRONOMICAL UNION □ Victoria, B. C., Canada *2/71*

21–25 **Liquid Crystals** □ LIQUID CRYSTAL INSTITUTE □ Kent, Ohio *12/71*

21ST ANNUAL PHYSICS SHOW

IN CONJUNCTION WITH THE COMBINED ANNUAL MEETING OF THE AMERICAN PHYSICAL SOCIETY AND THE AMERICAN ASSOCIATION OF PHYSICS TEACHERS

NEW YORK HILTON HOTEL, N.Y.C.

JANUARY 29–31, 1973

Circle No. 70 on Reader Service Card

AUGUST 1972

21–25 • **Corrosion** □ EUROPEAN FEDERATION OF CORROSION, BELGIUM CENTER FOR THE STUDY OF CORROSION □ Brussels, Belgium *(Belgium Center for the Study of Corrosion, Ave Paul Héger, Grille 2, B-1050 Brussels, Belgium) 4/72*

21–25 **Hydrogen Bonding** □ NATIONAL RESEARCH COUNCIL OF CANADA □ Ottawa, Canada *2/72*

21–25 • **Controlled Fusion and Plasma Physics** □ PLASMA PHYSICS DIVISION OF THE EUROPEAN PHYSICAL SOCIETY, DEPT. OF PLASMA PHYSICS AND CONTROLLED FUSION OF THE NUCLEAR CENTER OF GRENOBLE □ Grenoble, France *(T. Consoli, Nuclear Center of Grenoble, 38-Grenoble-Gare, France) 4/72*

21–26 **Magnetic Resonance and Related Phenomena** □ EUROPEAN PHYSICAL SOCIETY □ Turku, Finland *10/71*

21–26 **Theoretical and Applied Mechanics** □ NATIONAL RESEARCH COUNCIL □ Moscow, USSR *9/71*

21–26 **Physics of Dense Matter** □ INTERNATIONAL ASTRONOMICAL UNION □ Boulder, Colo. *3/72*

26–7 □ INTERNATIONAL UNION OF CRYSTALLOGRAPHY □ Kyoto, Japan *1/71*

28–30 **Electronic, Optical and Magnetic Materials** □ ELECTRONIC MATERIALS COMMITTEE OF THE METALLURGICAL SOCIETY OF AIME □ Boston, Mass. *3/72*

28–31 • **Applications of the Mössbauer Effect** □ SOREQ NUCLEAR RESEARCH CENTER, HEBREW UNIV., TECHNION, NEGEV NUCLEAR RESEARCH CENTER □ Israel *(M. Pasternak, Soreq Nuclear Research Center, Yavne, Israel)* [6/72] *4/72*

28–1 • **Electron Microscopy** □ ELECTRON MICROSCOPY SOCIETY OF AMERICA □ Los Angeles, Calif. *(R. F. Bils, Electron Microscopy Lab, Univ. of Southern Calif., Los Angeles, Calif. 90007) 4/72*

28–1 **Few-Particle Problems in Nuclear Interaction** □ IUPAP, US NATIONAL SCIENCE FOUNDATION, AEC, UNIV. OF CALIF. AT LOS ANGELES □ Los Angeles, Calif. *12/71*

28–1 • **Spectral Lines** □ APS □ Knoxville, Tenn. *(M. Lapp, General Electric Co, Corporate Research and Development, Schenectady, N. Y.) 4/72*

29–31 **Variable Stars in Globular Clusters and in Related Systems** □ INTERNATIONAL ASTRONOMICAL UNION □ Richmond Hill, Canada *3/72*

30–3 • **Quantum Chemistry and Solid-State Physics** □ QUANTUM CHEMISTRY GROUP OF UNIV. OF UPPSALA, QUANTUM THEORY PROJECT OF UNIV. OF FLORIDA □ Beitostolen, Norway *(P. O. Löwdin, Quantum Chemistry Group, Univ. of Uppsala, Box 518, 75120 Uppsala 1, Sweden) 4/72*

SEPTEMBER 1972

3–8 **Properties of Liquid Metals** □ JAPAN INST. OF METALS, PHYSICAL SOC. OF JAPAN □ Tokyo *10/70*

3–9 • □ BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE □ Leicester, UK *(J. M. Robertson, British Association for the Advancement of Science, 3 Sanctuary Bldg, 20 Great Smith St, London SW1, UK) 4/72*

4, 5 **Electro-Optics Systems in Flow Measurement** □ DEPARTMENTS OF MATHEMATICS AND ELECTRONICS AT UNIV. OF SOUTHAMPTON □ Southampton, UK *1/72*

4–8 **Nuclear Moments and Nuclear Structure** □ IUPAP □ Osaka, Japan *2/72*

4–8 **Rheology** □ S OF R □ Lyon, France *3/72*

4–8 • **Chemistry of Transuranium Elements** □ INSTITUTE OF PHYSICAL CHEMISTRY OF THE USSR ACADEMY OF SCIENCES □ Moscow, USSR *(Institute of Physical Chemistry, USSR Academy of Sciences, Leninsky Prospect 31, Moscow, V-312, USSR) 4/72*

5–7 • **Illumination Optics** □ OSA □ Boulder, Colo. *(J. W. Quinn, OSA, 2100 Pennsylvania Ave N. W., Washington, D. C. 20037)* [6/2/72] *4/72*

5–8 • **Reactor Physics** □ AMERICAN NUCLEAR SOCIETY □ Kiamesha Lake, N. Y. *(N. C. Francis, 2311 Plum St, Schenectady, N. Y. 12309) 4/72*

5–8 **Naturally Occurring Composite Materials** □ NAVAL AIR SYSTEMS COMMAND, OFFICE OF NAVAL RESEARCH, NATIONAL MATERIALS ADVISORY BOARD, UNITED AIRCRAFT RESEARCH LABS □ Lakeville, Conn. *12/71*

5–12 **Electron Microscopy** □ IOP □ Manchester, UK *10/71*

6–12 **Extended Atmospheres and Circumstellar Matter in Spectroscopic Binary Systems** □ INTERNATIONAL ASTRONOMICAL UNION □ Parkesville, Canada *3/72*

6–13 **High-Energy Physics** □ NATIONAL ACCELERATOR LABORATORY, UNIV. OF CHICAGO □ Chicago, Ill. *8/71*

8–13 • **Raman Spectroscopy** □ OPTICAL RESEARCH LABORATORY □ Reims, France *(L. Bernard, Optical Research Laboratory, B. P. No. 347, 51-Reims, France) 4/72*

10–15 • **Applied Spectroscopy** □ SOCIETY FOR APPLIED SPECTROSCOPY □ Dallas, Tex. *(P. F. Kane, Box 5936, M/S 147, Dallas, Tex. 75222) 4/72*

11–13 • **Applications of Californium 252**

SEPTEMBER 1972

□ NUCLEAR REACTOR LABORATORY OF UNIV. OF TEXAS □ Austin, Tex. *(E. L. Draper, Nuclear Reactor Laboratory, Univ. of Texas, Austin, Tex. 78712) 4/72*

11–15 • **Gas Discharges** □ INSTITUTION OF ELECTRICAL ENGINEERS, IOP, INSTITUTION OF ELECTRONIC AND RADIO ENGINEERS □ London, UK *(Conference Dept., Institution of Electrical Engineers, Savoy Pl, London WC2R OBL, UK) 4/72*

11–15 **General Principles of Rheology** □ CZECHOSLOVAK ACADEMY OF SCIENCES □ Prague, Czechoslovakia *3/72*

11–16 • **Interaction of Electrons with Strong Electromagnetic Fields** □ HUNGARIAN ACADEMY OF SCIENCES, EÖTVÖS LORAND PHYSICAL SOCIETY □ Balatonfüred, Hungary *(J. Bakos, Central Research Institute for Physics, P. O. Box 49, Budapest 114, Hungary) 4/72*

11–16 **Ion Sources** □ AUSTRIAN SOCIETY FOR THE STUDY OF ATOMIC ENERGY □ Vienna, Austria *12/71*

12–14 **Elementary-Particle Physics** □ NUCLEAR PHYSICS SUBCOMMITTEE OF IOP □ Southampton, UK *12/71*

12–14 • **Photoelectron Spectroscopy of Molecules** □ FARADAY SOCIETY □ Brighton, UK *(J. N. Murrell, School of Molecular Sciences, Univ. of Sussex, Brighton BN1 9QJ, UK) 4/72*

12–15 **Solid State Devices** □ EUROPEAN PHYSICAL SOCIETY □ Lancaster, UK *10/71*

15–19 • **Molecular Spectroscopy** □ INSTITUTE OF LOW TEMPERATURES AND STRUCTURAL RESEARCH OF THE POLISH ACADEMY OF SCIENCES, INSTITUTE OF CHEMISTRY OF WROCLAW UNIV. □ Wroclaw, Poland *(D. H. Ratajczak, Institute of Chemistry, Univ. of Wroclaw, U1. Joliot-Curie 14, Wroclaw, Poland) 4/72*

15–22 **Ages of Stars** □ INTERNATIONAL ASTRONOMICAL UNION □ Paris, France *3/72*

17–20 **Storage and Flow of Solids** □ MATERIALS HANDLING ENGINEERING DIVISION OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, SOCIETY OF MINING ENGINEERS OF THE AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS, AMERICAN SOCIETY OF CIVIL ENGINEERS □ Chicago, Ill. *10/71*

18–20 **Point Defects and Their Aggregates in Metals** □ IOP □ Sussex, UK *12/71*

19–22 **Magnet Technology** □ IUPAP □ Brookhaven, New York *2/72*

25–28 **Meridian Astronomy** □ INTERNATIONAL ASTRONOMICAL UNION □ Copenhagen, Denmark *3/72*

25–28 • **Ion–Surface Interaction—Sputtering and Related Phenomena** □ SURFACE PHYSICS DIVISION OF THE MAX PLANCK INSTITUTE FOR PLASMA PHYSICS □ Garching, Germany *(B. M. Scherzer, Max Planck Institute for Plasma Physics, D-8046 Garching, Germany) 4/72*

26–29 • **Time-Dependent Problems in Molecular Quantum Theory** □ UNIV. OF NOTTINGHAM □ Nottingham, UK *(R. L. Hudson, Dept. of Mathematics, Univ. of Nottingham, Nottingham NG7 2RD, UK) 4/72*

26–29 • **Vacuum Instruments and Methods in Surface Studies** □ BRITISH VACUUM SOCIETY □ Reading, UK *(British Vacuum Society, 47 Belgrave Square, London SW1, UK) 4/72*

OCTOBER 1972

1–5 **Engineering in Medicine and Biology** □ IEEE GROUP ON ENGINEERING IN MEDICINE AND BIOLOGY, ALLIANCE ENGINEERING IN MEDICINE AND BIOLOGY □ Bal Harbor, Fla. *10/71*

2–5 • **Metallurgical Effects at High Strain Rates** □ SANDIA LABS, AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS □ Albuquerque, N. M. *(R. W. Rohde, Division 5531, Sandia Labs, P. O. Box 5800, Albuquerque, N. M. 87115) 4/72*

2–6 • **Beam-Foil Spectroscopy** □ OSA □ Tucson, Ariz. *(S. Bashkin, Dept. of Physics, Univ. of Ariz., Tucson, Ariz. 85721)* [8/1/72] *4/72*

3–6 • **Trends in the Development of Modern Physics** □ EUROPEAN PHYSICAL SOCIETY □ Wiesbaden, Germany *(European Physical Society, P. O. Box 309, CH-1227 Carouge-Geneva, Switzerland) 4/72*

5, 6 **Testing of Polymers for Service** □ MATERIALS AND TESTING GROUP OF IOP, MATERIALS SCIENCE CLUB, PLASTICS INSTITUTE, INSTITUTION OF THE RUBBER SOCIETY □ Buxton, UK *3/72*

8–13 **Electrets, Charge Storage and Transport in Dielectrics** □ ELECTROCHEMICAL SOCIETY □ Miami Beach, Florida *3/72*

9–13 **Space Optics** □ INTERNATIONAL COMMISSION FOR OPTICS, NATIONAL ACADEMY OF SCIENCES □ Santa Monica, Calif. *2/72*

10–15 **Electronics and Vacuum Physics** □ CZECHOSLOVAK ACADEMY OF SCIENCES □ Brno, Czechoslovakia *3/72*

17–20 □ OSA □ San Francisco

NOVEMBER 1972

13–15 • **Collection and Analysis of Astrophysical Data** □ NATIONAL RADIO ASTRONOMY OBSERVATORY, IEEE GROUP ON AEROSPACE AND ELEC-

NOVEMBER 1972

TRONIC SYSTEMS, INTERNATIONAL SCIENTIFIC RADIO UNION ☐ Charlottesville, Va. *(W. R. Burns, NRAO, Edgemont Rd, Charlottesville, Va. 22901) 4/72*

23–26 **Modulation Spectroscopy** ☐ IUPAP ☐ Tucson, Ariz. *2/72*

28–1 **Magnetism and Magnetic Materials** ☐ AIP, IEEE, OFFICE OF NAVAL RESEARCH, AMERICAN SOCIETY FOR TESTING AND MATERIALS, MAGNETISM SECTION OF AMERICAN INSTITUTE OF MINING, METALLURGICAL AND PETROLEUM ENGINEERS ☐ Denver, Colo. *3/72*

28–1 ☐ ASA ☐ Miami Beach, Fla. *10/70*

DECEMBER 1972

18–22 **Relativistic Astrophysics** ☐ ORGANIZING COMMITTEE OF SIXTH TEXAS SYMPOSIUM ON RELATIVISTIC ASTROPHYSICS ☐ New York, *1/72*

JANUARY 1973

29–1 ☐ APS-AAPT ☐ New York

MARCH 1973

13–16 • ☐ OSA ☐ Denver, Colo. *(J. W. Quinn, OSA, 2100 Pennsylvania Ave N. W. Washington, D. C. 20037)* [12/8/72] *4/72*

19–21 • **Optical Storage of Digital Data** ☐ OSA ☐ Boulder, Colo. *(J. W. Quinn, 2100 Pennsylvania Ave N. W., Washington, D. C. 20037)* [12/1/72] *4/72*

APRIL 1973

9–13 **Solid Compounds of Transition Elements** ☐ ORGANIZING COMMITTEE OF 4TH INTERNATIONAL CONFERENCE ON SOLID COMPOUNDS OF TRANSITION ELEMENTS ☐ Geneva, Switzerland *2/72*

JULY 1973

3–6 **Molecular Motions in Liquids** ☐ SOCIETY OF PHYSICAL CHEMISTRY ☐ Paris, France *3/72*

9–12 • **Molecular Beams** ☐ ORGANIZING COMMITTEE OF FOURTH INTERNATIONAL SYMPOSIUM ON MOLECULAR BEAMS ☐ Cannes, France *(F. M. Devienne, Laboratoire de Physique Moléculaire des Hautes Energies, B. P. 2-06, Peymeinade, France) 4/72*

OCTOBER 1973

29–2 • **Atomic Spectroscopy** ☐ SPECTROSCOPY SOCIETY OF CANADA ☐ Toronto, Canada *(C. L. Chakrabarti, Dept. of Chemistry, Carleton Univ., Ottawa K1A 5B6, Ontario, Canada) 4/72* ☐