CALENDAR

This is a partial calendar comprising only notices received since last month. A complete calendar is published every third month. Readers are referred to the last one, published in January, if they wish a comprehensive listing of notices. The April issue will contain the next 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
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

MARCH 1970

20 • □ N. Y. ACAD. SCI. □ New York, N. Y. *(J. Lebowitz, Belfer Graduate School of Science, Amsterdam Ave., New York, N. Y. 10033) 3/70*

23–24 • **Acoustic Surface Waves** □ IBM □ Yorktown Heights, N. Y. *(R. Pole, PO Box 218, Yorktown Heights, N. Y. 10598) 3/70*

23–25 • **Small Accelerators** □ OAK RIDGE ASSOCIATED UNIVS. □ Oak Ridge, Tenn. *(J. Duggan, Oak Ridge Associated Univs., PO Box 117, Oak Ridge, Tenn. 37830) 3/70*

APRIL 1970

5–9 • **Cybernetics** □ IEEE, NACHRICHTENTECHNISCHE GESELLSCHAFT IM VDE, ELEKTROTECHNISCHER VEREIN BERLIN IM VDE, □ Berlin *(Elektrotechnischer Verein Berlin im VDE, Bismarckstrasse 33, D-1 Berlin 12, Germany) 3/70*

7–9 ♦ **Nuclear Physics** □ IPPS □ Guildford, Surrey, UK *(Meetings Officer, 47 Belgrave Square, London, S. W. 1, UK) 7/69*

Topics: Nuclear surface; isospin and charge exchange; deformations, correlations and clustering; structure and spectroscopy of nuclear states; electromagnetic interactions; new developments in nuclear theory.

10, 11 • □ AAPT □ Williamsport, Pa. *(M. Fineman, Lycoming College, Williamsport, Pa. 17701) 3/70*

12–16 • □ INSTITUTE OF ENVIRONMENTAL SCIENCES □ Boston *(Institute of Environmental Sciences, 940 E. Northwest Highway, Mt. Prospect, Ill. 60056) 3/70*

13, 14 • **Polymer Rheology** □ UNIV. OF WISCONSIN □ Madison *(J. Quigley, Univ. of Wisconsin, 432 North Lake St., Madison, Wisc. 53706) 3/70*

Topics: Measurement techniques; fluid-flow problems; molecular theories; solid-state problems.

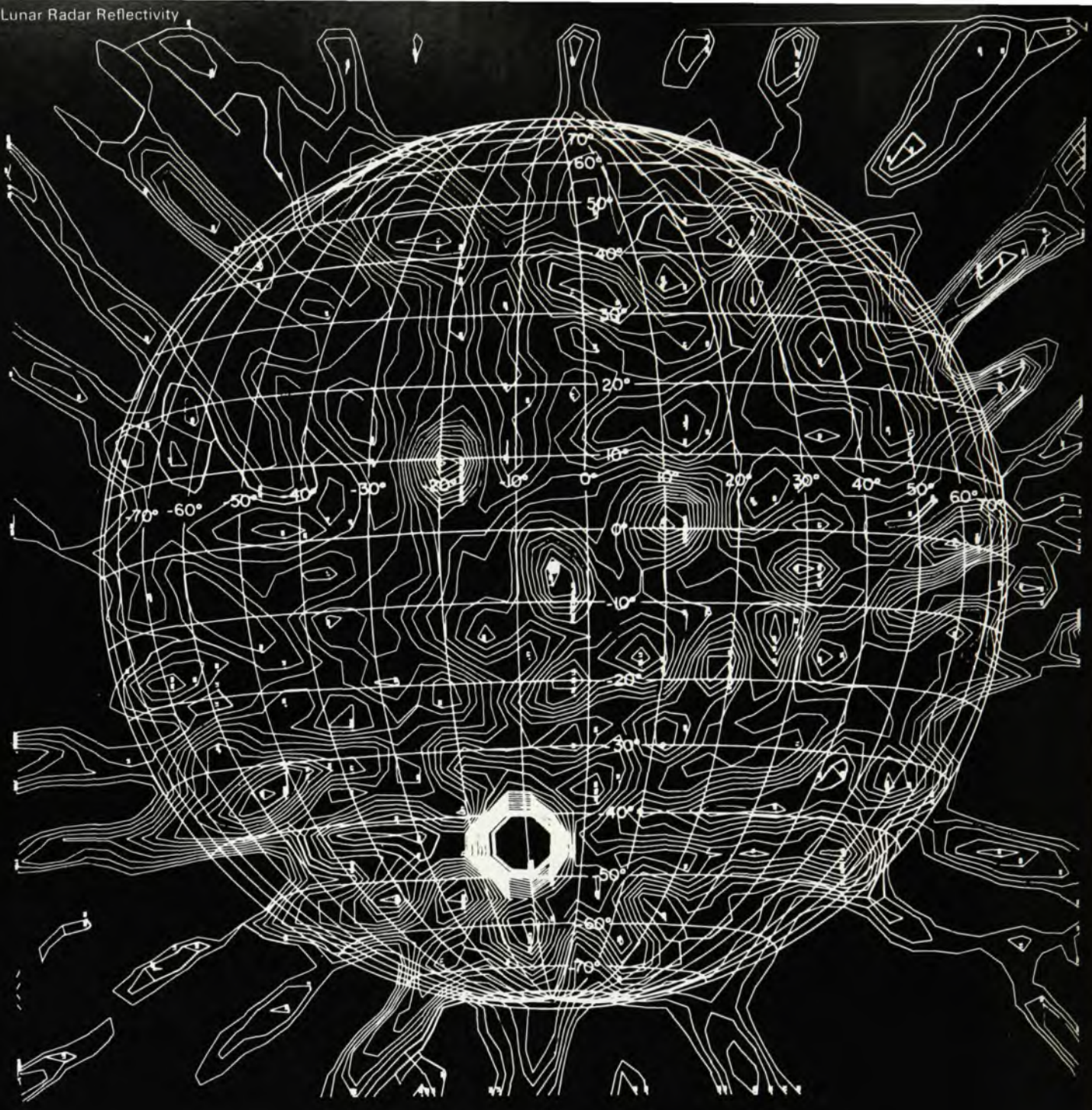
13–16 • **Atomic and Molecular** □ IPPS □ London *(Meetings Officer, 47 Belgrave Square, London S. W. 1) 3/70*

Topics: Heavy-particle collisions and chemical processes; ultraviolet and x-ray spectroscopy; plasma and solar spectroscopy; electron collisions; far infrared and submillimeter spectroscopy; magnetic resonance and hyperfine structure; isotope shift and quantum optics.

15–17 • **Defects in Semiconductors** □ IPPS □ Reading, UK *(Meetings Officer, 47 Belgrave Square, London, S. W. 1, UK) 3/70*

18 • □ AAPT □ Sacramento *(P. McCormick, University of Santa Clara, Santa Clara, Calif. 95053) 3/70*

Partial calendar—see note at opening.



APRIL 1970

20–24 • □ AMERICAN GEOPHYS. UNION NATL. ACAD. SCI., NATL. RES. COUNCIL □ Wash., D. C. *(W. Smith, AGU, 2100 Pennsylvania Ave., N. W., Wash., D. C. 20037) 3/70*

MAY 1970

4–7 • **Ion Implantation in Semiconductors** □ AIR FORCE CAMBRIDGE RESEARCH LABS, AMERICAN ROCKWELL SCIENCE CENTER AND HUGHES RESEARCH LABS □ Thousand Oaks, Calif. *(AFCRL (CRWG/Sven Roosild), L. G. Hanscom Field, Bedford, Mass. 01730) 3/70*

14 • **Modern Methods of Analyses at Surfaces** □ AMERICAN VACUUM SOCIETY □ Murray Hill, N. J. *(S. Mader, IBM, PO Box 218, Yorktown Heights, N. Y. 10598) 3/70*

20, 21 • **Materials for Optical Systems** □ OSA □ Cambridge *(W. Barnes, Itek Corp., 10 Maguire Rd., Lexington, Mass. 02173) 3/70*

25–27 • **Analysis Instrumentation** □ INSTRUMENT SOCIETY OF AMERICA □ Pittsburgh *(W. Dailey, Mine Safety Appliances Co., 201 North Braddock Ave., Pittsburgh, Pa. 15208) 3/70*

Topics: Environmental pollution; chromatography; digital computers applied to process chromatography; sampling systems and electrochemical, chemical, optical, physical and radiation methods of analysis.

27–29 • **Low Energy Accelerators** □ BOROUGH POLYTECHNIC □ London *(A. Jiggins, Borough Polytechnic, London, S. E. 1) 3/70*

Topics: Neutron production and other reactions; surface physics; ion implantation; atomic collision probing techniques for studying solid lattices; beam foil spectroscopy; radiation damage; activation analysis.

JUNE 1970

14–19 • **Mass Spectrometry** □ AMERICAN SOCIETY FOR MASS SPECTROMETRY □ San Francisco *(J. McCrea, U. S. Steel Corp., Monroeville, Pa. 15146) 3/70*

15–17 • **Applied Superconductivity** □ NBS, UNIV. OF COLO., OFFICE OF NAVAL RES., AM. INST. PHYS. □ Boulder, Colo. *(R. Kropschot, NBS, Boulder, Colo. 80302) 3/70*

17, 18 • **Reacting Turbulent Flows** □ AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS □ San Diego *(AIAA, 1290 Sixth Ave., New York, N. Y. 10013) 3/70*

29–1 • **Thermophysics** □ AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS □ Los Angeles *(AIAA, 1290 Sixth Ave., New York, N. Y. 10013) 3/70*

29–3 • **Rarefied Gas Dynamics** □ Pisa, Italy *(A. Ferri, N. Y. Univ. Aerospace Laboratory, Bronx, N. Y. 10453) 3/70*

AUGUST 1970

3–7 ♦ **Precision Measurements** □ IUPAP, COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY OF THE INTL. COUNCIL OF SCIENTIFIC UNIONS, COMMITTEE ON FUNDAMENTAL CONSTANTS OF THE US NATIONAL ACADEMY OF SCIENCES AND NATIONAL RESEARCH COUNCIL, NBS, BUREAU INTERNATIONAL DE POIDS ET MÉSURES □ Gaithersburg, Md. *(L. Branscomb, Room A363, Bldg. 221, NBS, Washington, D. C. 20234)* [4/70] *1/70* (Note new date.)

5–7 • **Applications of X-Ray Analysis** □ UNIV. OF DENVER □ Denver *(J. Newkirk, Denver Research Inst., University Park Campus, Denver, Colo. 80210)* [4/70] *3/70*

18–26 • **International Congress on Acoustics** □ Budapest *(Prof. Tarnóczy, 7th International Congress, Budapest, VIII, Puskin u. 5-7, Hungary) 3/70*

19–21 • **Astrodynamics** □ AAS-AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS □ Santa Barbara *(AIAA, 1290 Sixth Ave., New York, N. Y. 10013) 3/70*

31–4 • **Dynamic Studies with Radioisotopes in Clinical Medicine and Research** □ IAEA □ Rotterdam, Netherlands *(T. Nagai, IAEA, Kärntner Ring 11, PO Box 590, A-1011, Vienna, Austria)* [4/70] *3/70*

31–4 • **Conference on Dynamics of Molecular Collisions** □ ORNL □ Oak Ridge, Tenn. *(E. Greene, Brown University, Providence, R. I. 02912) 3/70*

SEPTEMBER 1970

6–11 • **Hyperfine Interactions Detected by Nuclear Radiation** □ IUPAP □ Rehovoth, Israel *(G. Goldring, The Weizmann Institute of Science, Rehovoth, Israel) 3/70*

7–11 • □ BRITISH NATL. COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY *(N. Robinson, The Royal Society, 6 Carlton House Terrace, London S. W. 1, UK) 3/70*

7–11 • **Cybernetics** □ ASSOCIATION INTERNATIONALE CYBERNETIQUE □ Namur, Belgium *(Secretariat, AIC, Palais des Expositions, Place André Rijckmans, Namur, Belgium) 3/70*

8–12 • **Molecular Structure and Spectroscopy** □ OHIO STATE UNIVERSITY □ Columbus, Ohio *(K. Nahari Rao, Ohio State Univ., Dept. of Physics, 174 W. 18th Ave., Columbus, Ohio 43210) 3/70*

14–18 • **Organic Solid-State Chemistry** □ INTL. UNION OF CRYSTALLOGRA-

Partial calendar—see note at opening.

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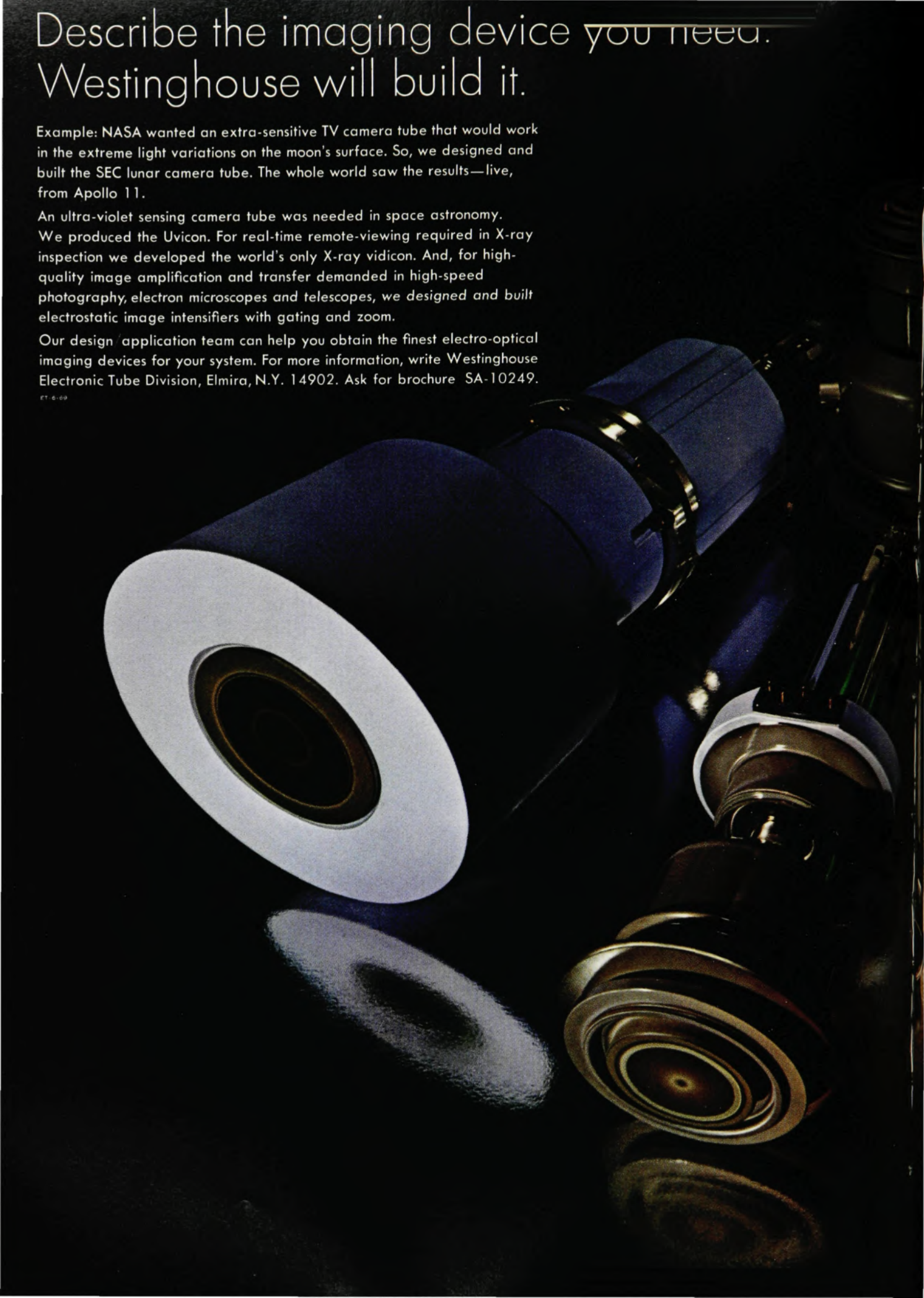

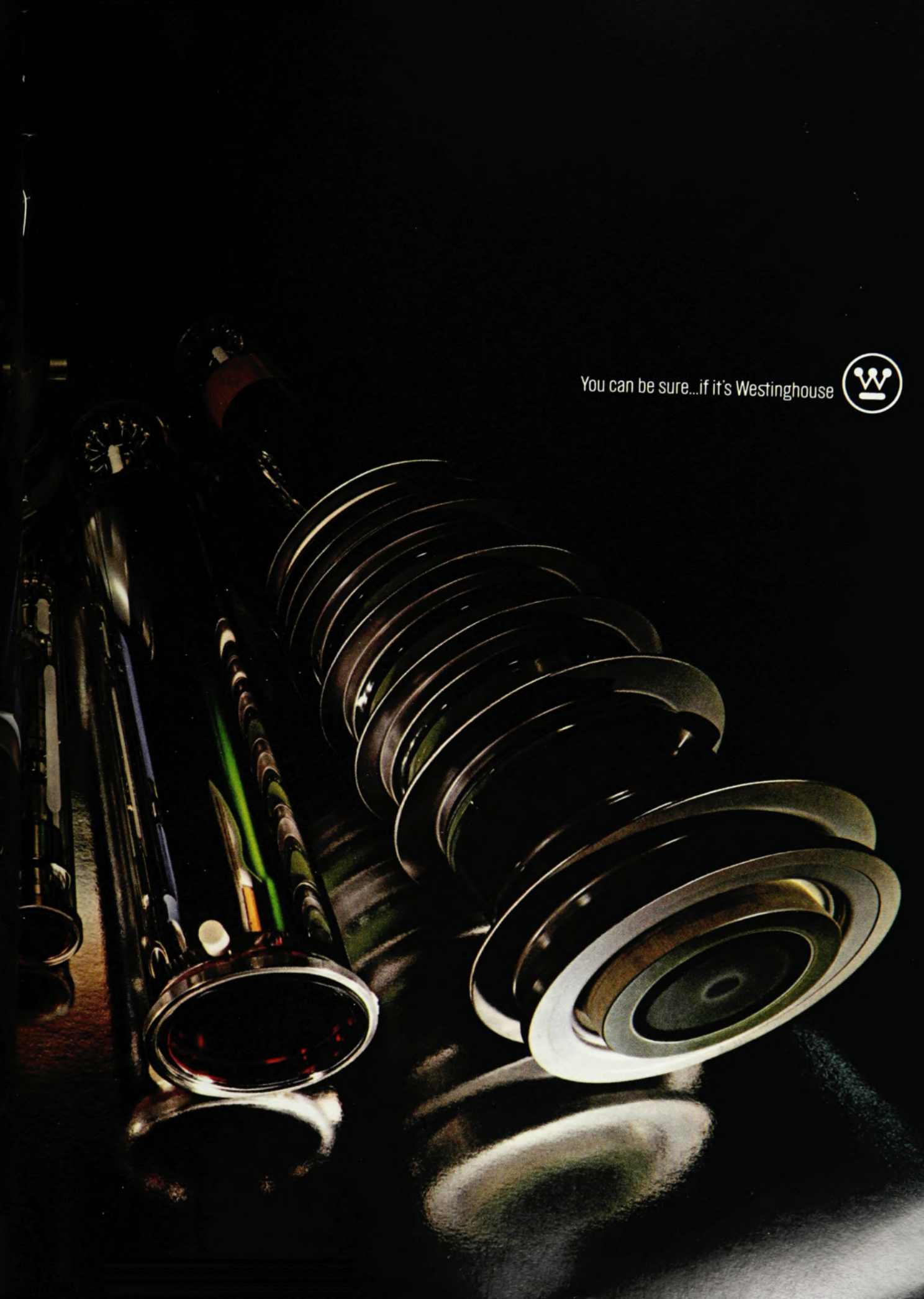
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NEW LISTING OF SHORT COURSES AND SCHOOLS

23–27 MARCH

Field-Ion and Field-Emission Microscopy □ Gainesville *(J. J. Hren, Dept. of Metallurgical and Materials Engineering, Univ. of Florida, Gainesville, Fla. 32601)*

Topics: Geometry of surfaces and computer techniques; electronic structure of surfaces; field electron emission; field ionization and image formation; field evaporation; field-ion mass spectrometry; adsorption, surface, migration and thin films; interpretation of defect structures; grain boundaries and interfaces; metallurgical applications; atomic order; experimental methods.

13–17 APRIL

Radiation Effects in Semiconductors □ Rolla *(Extension Division, University of Missouri–Rolla, Rolla, Mo. 65401)*

Topics: Interaction of radiation with matter; irradiation-produced defects in elemental and compound semiconductors; theory of surface states; effects of ionizing radiation on oxide-passivated and surface-controlled devices; permanent and transient effects of radiation on device characteristics; semiconductor-device models used in prediction of radiation effects and computer-aided design, analysis and simulation; ion implantation: fundamentals of implantation techniques, fabrication of ion-implantation devices.

16–18 APRIL

Thermal Pollution □ Boston *(Institute of Environmental Sciences, 940 East Northwest Highway, Mt. Prospect, Ill. 60056)*

19–29 APRIL

Advanced Statistical Mechanics and Thermodynamics □ UNIV. OF TEXAS AT AUSTIN □ Austin *(Prof. I. Prigogine, University of Texas at Austin, Physics Building, Room 202, Austin, Texas, 78712)*

Topics: Introduction to Equilibrium statistical mechanics and phase transitions; stochastic processes; quasi-particles and collective coordinates stochastic dynamical laws; non-equilibrium effects in chemical kinetics; interaction of light and matter; thermodynamics of biological systems; non-equilibrium statistical mechanics; transport phenomena in rarefied gases.

12–15 MAY

Radiation Quantities □ NBS □ Gaithersburg, Md. *(E. H. Eisenhower, Center for Radiation Research, NBS, Wash., D. C. 20234)*

Topics: x-rays; dosimetry; measurement of beam parameters; beam handling and positioning techniques; calibration of neutron sources; thermal-neutron flux density; reactor neutron measurements; counting techniques; microcalorimetry; calibration of standard samples of radioactivity.

8–19 JUNE

Applied Optics □ London *(Registrar, Imperial College, London S. W. 7, UK)*

Topics: Gaussian optics; aberrations; image-forming systems; visual perception and photometry; polarization; thin films; sources and detectors; the physical theory of image formation; electron microscopy.

8–19 JUNE

X-ray Spectrometry □ Albany *(H. Chessin, State University of New York at Albany, Dept. of Physics, 1400 Washington Ave., Albany, N. Y. 12203)*

Topics: basic principles and techniques; nondispersive analysis; advanced techniques; mathematical methods and computer automation of modern x-ray spectrometers.

15–19 JUNE

Low Energy Electron Diffraction □ Brooklyn *(R. Stern, Dept. of Physics, Polytechnic Inst. of Bklyn., 333 Jay St., Bklyn., N. Y. 11201)*

Topics: Measurements of surface-sensitive parameters: work function, optical reflectivity, photoelectric and secondary electron spectroscopy; absorption; epitaxy; surface chemistry. Low-energy electron diffraction: kinematical and dynamical diffraction theory. Relationship between diffraction at high and low electron energies. Three-dimensional band structure; dispersion surfaces and dynamical diffraction intensities; inelastic processes in solids; practical experience in LEED; x-ray methods in electron scattering.

15 JUNE–24 JULY

Elementary Particles and Quantum Field Theory □ Waltham, Mass. *(S. Deser, Dept. of Physics, Brandeis Univ., Waltham, Mass. 02154)*

Topics: Quality; renormalization methods; anomalous commutators in field theory; Veneziano models; chirality; form-factor models.

22–26 JUNE

Nondestructive Testing □ Cambridge *(Director of Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)*

Topics: Magnetic particle inspection; fluid penetrants; x-rays; eddy currents; ultrasonics, microwaves.

22 JUNE–3 JULY

Physics of Quantum Electronics □ Prescott, Ariz. *(S. Jacobs, Optical Sciences Center, Univ. of Arizona, Tucson, Ariz. 85721)*

Topics: Superconductivity phenomena; atomic coherence effects; nonlinear phenomena.

29 JUNE–4 JULY

Electrical Properties of Noncrystalline Materials □ Cambridge, UK. *(R. P. Ferrier, Univ. of Cambridge, Free School Lane, Cambridge CB2, 3 RQ, UK)*

Topics: Nature of a glass; conduction mechanisms; hopping versus band conduction; dielectric loss in glasses; liquid semiconductors; amorphous metallic alloys; technological applications of amorphous materials; survey of switching mechanisms.

18–20 AUGUST

Thermoluminescent Dosimetry □ Madison, Wisc. *(J. R. Cameron, Dept. of Radiology, University Hospitals, Madison, Wisc. 53706)*

31 AUGUST–9 SEPTEMBER

Magnetism—Current Topics □ NATO ADV. STUDY INST. □ La Colle sur Loup, France *(S. Foner, Francis Bitter National Magnet Laboratory, MIT, Cambridge, Mass. 02139)*

Topics: Metals and alloys; band magnetism; neutron diffraction; localized moments; spin fluctuations; dilute alloys; rare earth; hyperfine interactions; g-Shifts and NMR; transport; selected topics in high fields.

8–18 SEPTEMBER

Fundamentals of X-ray Diffraction □ Brooklyn, N. Y. *(D. Cattell, Polytechnic Institute of Brooklyn, 333 Jay Street, Bklyn., N. Y. 11201)*

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

SEPTEMBER 1970

PHY, IUPAC □ Rehovoth, Israel *(M. Cohen, Weizmann Institute of Science, Rehovoth, Israel) 3/70*

22–24 • **Physics and Nondestructive Testing** □ Chicago *(W. McGonnagle, Symposium, PO Box 554, Elmhurst, Ill. 60126) 3/70*

23–25 • **High-Energy Physics** □ IPPS □ Durham, UK *(Meetings Officer, 47 Belgrave Square, London SW. 1, UK) 3/70*

28–30 • **Metastable Metallic Alloys** □ IUPAP, EUR. PHYS. SOC., YUGOSLAV COUNCIL OF SCIENCE □ Brela, Yugoslavia *(Conference on Metastable Alloys, PO Box 816, Zagreb, Yugoslavia) 3/70*

Topics: Physical properties of supersaturated metallic solid solutions; nonequilibrium metallic crystalline phases and amorphous metallic alloys; metastable phases obtained by rapid quenching from the liquid state.

OCTOBER 1970

4–10 • □ INTL. ASTRONAUTICAL FEDERATION □ Constance, Germany *(I.A.F. Secretariat, 250 Rue St. Jacques, Paris 5, France) 3/70*

11–17 • **Physics and Chemistry of Semiconductor Heterojunctions and Layer Structures** □ IUPAP, EUR. PHYS. SOC. □ Budapest, *(Organizing Committee, Budapest, IV, Ujpest 1, PO Box 76, Hungary) 3/70*

20, 21 • Arc Symposium □ APS □ Hartford, Conn. *(R. Bullis, United Aircraft Research Lab., E. Hartford,*

Partial calendar—see note at opening.

Associate Editor for PHYSICS TODAY

Individual with graduate training in physics to join staff of PHYSICS TODAY as Associate Editor beginning June 1 in N.Y.C. Review and edit authored articles, write copy for departments and occasional features; follow edited material through printing process. Interest and talent in writing necessary, work experience in journalism desirable but not required. Send resume with salary requirement to Personnel Office, AIP.

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The Department of Physics has a vacancy at the level of Assistant Professor. All candidates will be considered, however preference will be given to a solid state theoretician whose interests and expertise are relevant to the current research of the department. This includes low temperature transport properties of metals and alloys and theoretical work on electrons in metals. Further details from and applications to **Chairman, Department of Physics, Dalhousie University, Halifax, N. S. Canada.**

AEROACOUSTICS

The Institute for Aerospace Studies of the University of Toronto has a vacancy effective July 1, 1970, or earlier in the field of aerodynamic noise at the assistant or associate professor level. Candidates should have a Ph.D. with strength in both experimental and theoretical aspects of the field. Duties would include teaching and research (with supervision of graduate students) to complement the existing program on the physics of jet noise and sonic boom.

Applications should be sent to **H. S. Ribner, Institute for Aerospace Studies, University of Toronto, Canada.** A curriculum vitae, detailing background and publications, should be included. Letters of reference are desirable but not essential, and material will be held in confidence if requested.

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The University of Saskatchewan, Regina Campus, invites applications for an academic appointment in Physics as of July 1, 1970. Field of specialization:

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Dr. G. Papini, *Chairman*,
Physics Department,
University of Saskatchewan,
Regina Campus, Regina, Sask., Canada.

OCTOBER 1970

Conn. 06108) 3/70

20–23 ♦ **Vacuum Symposium** □ AVS □ Washington, D. C. *(J. R. Young, General Electric Company, P.O. Box 8, Schenectady, N. Y. 12301)* [6/70] *3/70*

Topics: Vacuum science and technology; thin films; surface science.

26–29 • □ INSTRUMENT SOCIETY OF AMERICA □ Philadelphia *(S. Luna, ISA, 530 William Penn Place, Pittsburgh, Pa. 15219)* [3/70] *3/70*

NOVEMBER 1970

16–18 • **Solar Activity** □ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS □ Huntsville, Ala. *(AIAA, 1290 Sixth Ave., N. Y., N. Y. 10013) 3/70*

DECEMBER 1970

7–10 • □ AMERICAN GEOPHYSICAL UNION □ San Francisco *(W. Smith, 2100 Pennsylvania Ave., N. W., Wash., D. C. 20037) 3/70*

APRIL 1971

5–8 • **Atomic and Molecular Physics** □ IPPS □ York, UK *(Meetings Officer, 47 Belgrave Square, London, S. W. 1, UK) 3/70*

12–16 • □ AMERICAN GEOPHYS. UNION, NATL. ACAD. SCI., NATL. RES. COUNCIL □ Wash., D. C. *(W. Smith, AGU, 2100 Pennsylvania Ave. N. W., Wash., D. C. 20037) 3/70*

JUNE 1971

14–18 • **Molecular Structure and Spectroscopy** □ OHIO STATE UNIV. □ Columbus, Ohio *(K. Nahari Rao, 174 West 18th Ave., Columbus, Ohio 43210) 3/70*

SEPTEMBER 1971

1–3 • **Pattern Recognition** □ IPPS □ Lancaster, UK *(Meetings Officer, 47 Belgrave Square, London S.W. 1, UK) 3/70*

13–17 • **Materials Symposium** □ INORGANIC MATERIALS RES. DIV. LAWRENCE RADIATION LAB, UNIV. OF CALIF., BERKELEY □ Berkeley *(C. V. Peterson, Lawrence Radiation Laboratory, Berkeley, Calif. 94720) 3/70*

Topics: Structure and properties of materials; techniques and applications of high-resolution microscopy.

DECEMBER 1971

6–8 • **Ultrasonics** □ IEEE □ Miami Beach, Fla. *(345 E. 47 St., N. Y., N. Y. 10017) 3/70* □