

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 April, if they wish a comprehensive listing of notices. The July 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

AFCLR—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

MAY 1970

- 11-13 • **Aerospace Instrumentation** ☐ AEROSPACE INDUSTRY DIV., INSTRUMENT SOC. OF AMER. ☐ Seattle, Wash. (L. Mertz, The Boeing Co., Mail Stop 55-04, P. O. Box 3707, Seattle, Wash. 98124) 5/70

Topics: Simulation; laser instrumentation; measurement techniques; holography; maintenance data systems; telemetry; aircraft noise measurement; flight deck, air traffic control instrumentation; data processing and display; computer-controlled testing and data acquisition; pollution measurement; systems stimulation; mechanical standards and measurement; noise and vibration measurement and analysis; transducer research and practices; electrical standards and measurement; holographic Fourier analysis; fluidics in control and instrumentation; and random measurement and analysis.

- 15 • **Mathematics in Theoretical Physics** ☐ N. Y. ACAD. OF SCI., PHYSICAL SCIENCES SEC. ☐ New York, N. Y. (J. Lebowitz, NY Acad. Sci., 2 E. 63 St., New York, N. Y. 10021) 5/70

JUNE 1970

- 10-13 ♦ ☐ AAS ☐ Boulder, Colo.

- 29-1 • **Engineering Applications of Lasers** ☐ TECHNION, ISRAEL INST. OF TECHNOLOGY ☐ Tel Aviv, Israel

(Dr U. Shimony, Dept. of Electrical Engineering, Technion, Haifa, Israel) 5/70

Topics: Lasers; holography; communications; metrology; machining; medical applications.

JULY 1970

- 5, 6 • ☐ ISRAEL PHYS. SOC. ☐ Tel-Aviv, Israel (J. Rosen, Dept. of Physics Tel-Aviv, Israel) [5/70] 5/70

Topics: Molecular physics; solid-state physics; astrophysics; spectroscopy; many-body problems; elementary particles; neutron physics; magnetism; Mössbauer effect; nuclear physics.

- 27-31 • **Instrumentation Science** ☐ INSTRUMENT SOC. OF AMERICA ☐ Geneva, N. Y. (T. Tremellen, Education Services, ISA, 530 William Penn Place, Pittsburgh, Pa. 15219) 5/70

Topics: Optics; earth resources, satellite instrumentation; ultrasonics; oceanographic instrumentation; analysis instrumentation.

AUGUST 1970

- 6-15 • **Antarctic Geology and Solid**

Partial calendar—see note at opening.

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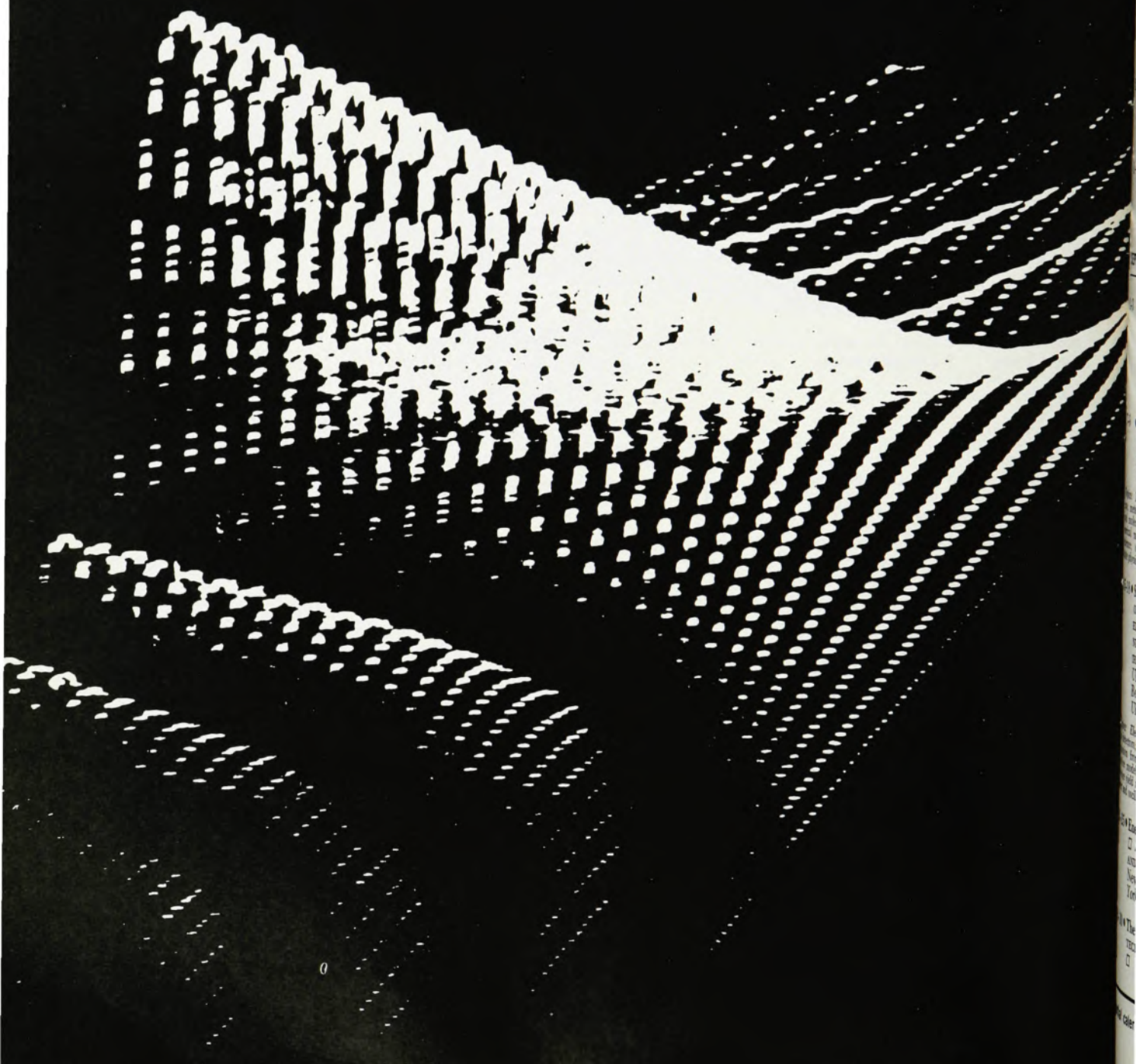
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Solid State Physics
Information Processing
Radio Physics and Astronomy
Radar
Computer Applications
Space Surveillance Techniques
Re-entry Physics
Space Communications
A description of the Laboratory's work will be sent upon request.



Ambiguity Surface

Earth Physics □ SCI. COM. ON ANTARCTIC RES., INTL. UNION OF GEOLOGICAL SCIENCES □ Oslo, Norway (L. de Goes, Committee on Polar Res., Natl. Acad. Sci., 2101 Constitution Ave. NW, Wash., D. C. 20418) 5/70

10-14 • **Environmental Aspects of Nuclear Power Stations** □ IAEA □ New York, N. Y. (J. Kane, Div. of Technical Information, US AEC, Wash., D. C. 20545) 5/70

17-21 • **Computers** □ COMM. ON COLLEGE PHYSICS, ILL. INST. OF TECHNOLOGY □ Chicago (R. Blum, Dept. of Physics and Astronomy, Univ. of Maryland, College Park, Md. 20742) [6/70] 5/70

Topics: Computational mode; interactive computer graphics; analog computing; simulation mode; computer-supervised instruction; computer-generated film and graphics theater.

24-29 • **Analytical Chemistry** □ Budapest, Hungary (Hungarian Chem. Soc., Budapest V, Szabadsag ter 17, Hungary) 5/70

25-28 • **Chromosphere** □ Boulder, Colo. (J. W. Evans, Sacramento Park Observatory, Sunspot, N. M. 88349) 5/70

31-3 • **Solar Magnetic Fields** □ Paris (R. Michard, Solar Dept., Meudon Observatory, 92-Meudon, France) 5/70

SEPTEMBER 1970

1-3 • **Determination of Fundamental Spectroscopic Data** □ IAU □ London, UK (A. H. Cook, National Physical Lab., Div. of Quantum Metrology, Teddington, Middlesex, UK) 5/70

7-9 • **Computational Physics** □ IPPS □ London, England (Meetings Officer, IPPS, 47 Belgrave Square, London, S.W. 1) 5/70

Topics: Experimental high-energy physics; plasmas; meteorology; astrophysics; nuclear, atomic and molecular physics and classical fluids; numerical methods; computational physics; space science; oceanography; crystallography; solid-state physics.

15-18 • **Solid-State Devices** □ IPPS, INST. OF ELEC. ENGINEERS, INST. OF ELECTRONIC AND RADIO ENGINEERS, IEEE, UK AND REPUBLIC OF IRELAND SEC. □ Univ. of Exeter, UK (Meetings Officer, IPPS, 47 Belgrave Square, London S.W. 1, UK) [6/70] 5/70

Topics: Electroluminescence; photon and particle detectors; semiconductor transducers; electron emission from semiconductors; device physics; device modeling; effects of material defects on device yield and performance; microwave amplifiers and oscillators; semiconductor memories.

21-25 • **Energy Conversion Engineering** □ AMER. INST. OF AERONAUTICS AND ASTRONAUTICS □ Las Vegas, Nev. (AIAA, 1290 6 Ave., New York, N. Y. 10013) 5/70

28-30 • **Thermal Conductivity** □ DYNATECH AND ARTHUR D. LITTLE, INC. □ Boston (R. Tye, Dynatech

B/D Co., 17 Tudor Street, Cambridge, Mass. 02139) 5/70

Topics: Heat transmission in solids and fluids, from cryogenic to pyrogenic temperatures; thermal measurements in the biological and medical fields; multiphase media; rocks and soils; the newer construction materials, and the concept of measurements on systems.

28-3 • **GERMAN PHYS. SOC.** □ Hanover, Germany (K. H. Rieue, German Physical Society, Haracustr 12-14, 645 anau/Main, Germany) 4/70

OCTOBER 1970

1, 2 • **Thermophysical Properties** □ AMER. SOC. OF MECHANICAL ENGINEERS □ Newton, Mass. (C. F. Bonilla, Engineering School, Columbia Univ., New York, N. Y. 10027) 5/70

Topics: Theoretical studies of thermodynamic and transport properties; measurements of PVT, calorimetric, thermochemical and similar data; measurements of conductivities, diffusivities, viscosity and related properties; theoretical and experimental studies of radiation; methods of formulation and presentation of thermophysical

properties; reviews of current status of theory, data and experimental techniques.

5-10 • **Thin Films** □ SOCIÉTÉ FRANÇAISE DES INGENIEURS ET TECHNICIENS DU VIDE □ Cannes, France (Mme J. Fauvet-Mainier, Société Française des Ingenieurs et Techniciens du Vide, 19, Rue du Renard-75 Paris IV, France) 5/70

Topics: Elaboration and structure of thin films; evaporation of alloys and compounds; measurements; amorphous thin films; recent results in new fields.

7-8 • **High-Temperature Science** □ FRANKLIN INSTITUTE RES. LABS □ Philadelphia, Pa. (G. Cohn, Franklin Inst. Res. Labs., Phila., Pa. 19103) 5/70

Topics: Thermodynamic and structural studies of high-temperature systems by mass-spectrometric, optical, x-ray or electron diffraction, electrochemical and other techniques; phase diagram; flame and explosion phenomena; electric arc chemistry and physics; molten salt properties; new synthetic methods; high temperature-high pressure phenomena; exploding wires; imaging techniques; shock waves; solid-state studies; energy conversion processes; materials science; related theoretical developments in thermody-

Summer Sessions for 1970 Gordon Research Conferences

The Gordon Research Conferences will be held from 15 June to 4 Sept., at six New Hampshire locations and at Providence Heights College, Issaquah, Wash. Given annually, the conferences are aimed at stimulating research in universities, research foundations and industrial laboratories.

Morning and evening meetings leave afternoons free for discussion and recreation. Emphasis is on latest developments and suggestions for progress rather than reviews of known information. To encourage the free exchange of ideas, no conference proceedings are published and participants wishing to use information must secure authorization of the contributor.

Admission is by application, available from A. M. Cruickshank, Director, Pastore Chemical Laboratory, University of Rhode Island, Kingston, R.I. 02881. Applications should be received two months prior to the conference date. Attendance at each conference is limited to about 100.

Some physics-related conferences include:

Nuclear Chemistry, 15-19 June; Scientific Information and Problems in Research, 13-17 July, Colby Junior College, New London, N.H.

Radiation Chemistry, 13-17 July; Electron Donor-Acceptor Interactions, 10-14 Aug., Chemistry and Physics of Cellular Materials, 17-21 Aug.; Science of Adhesion, 24-28 Aug., New Hampton School, New

Hampton, N.H.

Solid State Studies in Ceramics, 3-7 Aug.; Chemistry and Physics of Solids, 10-14 Aug.; Infrared Spectroscopy, 17-21 Aug.; Chemistry and Physics of Papers, 24-28 Aug.; Lasers in Medicine and Biology, 31 Aug.-4 Sept.; Kimball Union Academy, Meriden, N.H.

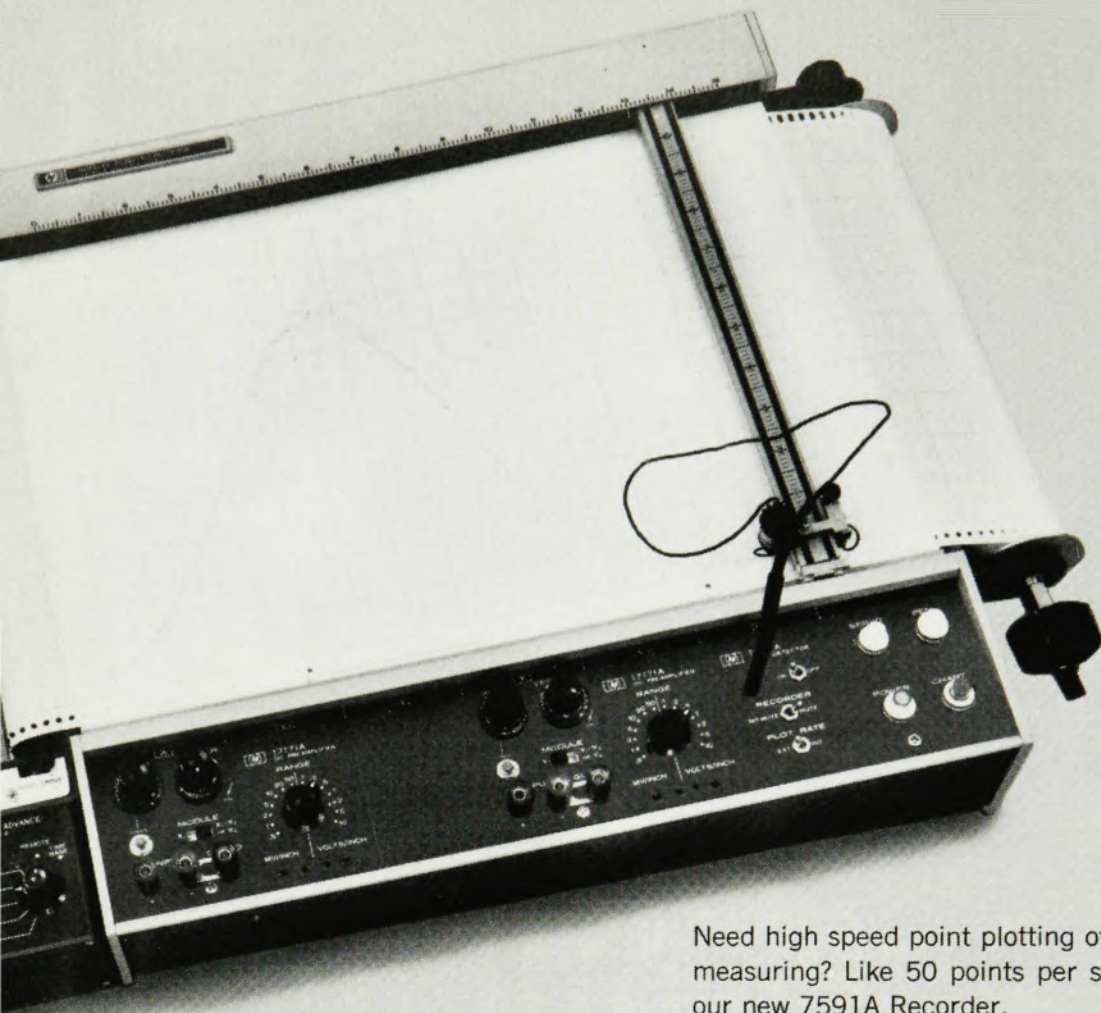
Structural Aspects of Water and Aqueous Solutions, 15-19 June; Theoretical Chemistry, 22-26 June; Chemistry and Physics of Space, 6-10 July; Nuclear Structure Physics, 27-31 July; Physics and Physical Chemistry of Biopolymers, 3-7 Aug.; Thin Films, 17-21 Aug.; Physical Metallurgy, 24-28 Aug.; Metal-Insulator-Semiconductor Systems, 31 Aug.-4 Sept., Tilton School, Tilton, N.H.

Science and Technology of Biomaterials, 22-26 June; Polymer Physics, 13-17 July; Physical Acoustics, 20-24 July; Dielectric Phenomena, 27-31 July, Proctor Academy, Andover, N.H.

Research at High Pressure, 15-19 June; Crystal Growth, 22-26 June; Particle-Solid Interactions, 10-14 Aug., Holderness School, Plymouth, N.H.

Plasma Physics, 15-19 June; Chemistry and Physics of Isotopes, 29 June-3 July; Dynamics of Quantum Solids and Fluids, 27-31 July; Non-linear Optic Effects, 3-7, Providence Heights College, Issaquah, Wash.

Partial calendar—see note at opening.



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25-28 MAY

Coherence, Holography and Propagation in Random Media □ UNIV. OF PA. □ Philadelphia, Pa. (Director, Continuing Engineering Studies, Univ. of Pa., Philadelphia, Pa. 19104)

Topics: Theory and applications with attention to the latest developments in coherence theory, holography and propagation through random media.

15 JUNE-24 JULY

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

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

15 JUNE-14 AUGUST

Instructional Newness in Undergraduate Physics □ PACIFIC NORTHWEST ASSOC. FOR COLLEGE PHYSICS □ Tacoma, Wash. (Pacific Northwest Assoc. for College Physics, Central Washington State College, Ellensburg, Wash. 98926)

16-26 JUNE

Lasers and Laser Applications □ TECHNION, ISRAEL INST. OF TECHNOLOGY □ Haifa, Israel (S. Kimel, Dept. of Chemistry, Technion, Haifa, Israel)

Topics: Laser physics; nonlinear optics; modulation; optical heterodyning; detectors; signal processing; holography.

29 JUNE-11 JULY

Quantum Mechanics □ INTL. SCHOOL OF PHYSICS "ENRICO FERMI" □ Varenna, Italy (F. Selleri, Istituto di Fisica dell'Univ. Via Amendola, 173, 70126 Bari, Italy)

Topics: Conceptual problems raised by the linearity of the quantum laws; measurement of fields; macroscopic bodies; Bohr and von Neumann's epistemologies; causal theories, distant correlations and possible breakdown of quantum mechanics; quantum mechanics without wave reduction; the relativity of state theory; recent developments in the axiomatics of quantum mechanics.

1-19 JULY

Elementary Processes at High Energy □ NATO ADVANCED STUDY INST. □ Erice, Sicily (A. Zichichi, Univ. of Bologna, Via Irnerio 46, 40126 Bologna, Italy)

6-17 JULY

Statistical Physics □ MIT □ Cambridge, Mass. (Summer Session Office, Room E19-356, MIT, Cambridge Mass. 02139)

Topics: Magnetic superconducting, liquid-crystal and biological phase transitions.

13-25 JULY

Mantle and Core in Planetary Physics □ INTL. SCHOOL OF PHYSICS "ENRICO FERMI" □ Varenna, Italy (M. Caputo, Istituto di Fisica dell'Univ., Via Irneria, 46, 40126 Bologna, Italy)

Topics: Elasticity and inelasticity of the earth; inversion problems; equations of state at high pressure; electrical and thermal conductivity; physical constitution of earth's core and eventual planetary cores; precession, nutation, turbulence in the core; planetary magnetism.

20-31 JULY

Light Scattering □ NORTHWESTERN UNIVERSITY □ Evanston, Ill. (C. T. Walker, Dept. of Physics, Northwestern University, Evanston, Ill. 60201)

27 JULY-8 AUGUST

Critical Phenomena □ INTL. SCHOOL OF PHYSICS "ENRICO FERMI" □ Varenna, Italy (F. P. Ricci, Istituto di Fisica dell'Univ., Piazzale delle Scienze 5, 00185 Roma, Italy)

Topics: Theory of equilibrium critical phenomena, including series summation, general fluctuation theory and field-theoretic methods; theory of nonequilibrium critical phenomena including dynamical scaling and mode-mode coupling; reviews of experimental data including static scaling, experimental results on transport and dynamical critical phenomena, methods and results from inelastic light scattering.

10-21 AUGUST

Mathematical Physics □ NATO ADVANCED STUDY INST. □ Istanbul Turkey (A. O. Barut, Dept. of Physics, Univ. of Colo., Boulder, Colo. 80302)

Topics: Mathematical problems of statistical mechanics; problems in nonlinear transformation; generalized functions; generalized eigenvectors; generalized algebras; special functions of mathematical physics and group representations.

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namics, kinetics, quantum mechanics or statistical mechanics.

26-30 • Nuclear Techniques in the Measurement and Control of Environmental Pollution □ IAEA □ Salzburg, Austria (H. C. Yuan, Div. of Res. and Lab., IAEA, Karntner Ring 11, P. O. Box 590, A-1011 Vienna, Austria) [9/70] 5/70

Topics: Tracer techniques; neutron-activation analysis; radiochemical analysis; radioisotope gauges and instruments; large radiation sources; sampling and data processing; mathematical modeling and system analysis.

28-30 • Planetology & Space Mission Planning □ N.Y. ACADEMY OF SCIENCES □ New York, N.Y. (L. R. Neville, N.Y. Acad. Sci., 2 East 63rd St., N.Y., N.Y. 10021) 5/70

NOVEMBER 1970

2-6 • Electric Contact Phenomena □ Chicago (R. E. Armington, Dept. of Electrical Engineering, Ill.)

Partial calendar—see note at opening.

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*Inst. of Technology, Chicago, Ill.
60616) 5/70*

- 8-12 • ☐ SOCIETY OF EXPLORATION GEO-PHYSICISTS ☐ New Orleans (H. Breck, P. O. Box 3098, Tulsa, Okla. 74101) 5/70

- 12, 13 • Engineering Systems ☐ IEEE ☐ Winter Park, Florida (J. Regan, U. S. Naval Training Device Center, Orlando, Fla.) [5/70] 5/70

- 18-20 • Analytical Symposium ☐ New York, N. Y. (B. Karger, Dept. of Chemistry, Northeastern Univ. Boston, Mass. 02115) 5/70

Topics: Spectroscopy and analytical chemistry.

JANUARY 1971

- 23-27 • Physical and Biological Radiation Detectors ☐ IAEA ☐ Vienna, Austria (IAEA, Kärntnering 11, P.O. Box 590 A-1011 Vienna, Austria) 5/70

- 25-27 • Aerospace Sciences ☐ AMER. INST. OF AERONAUTICS AND ASTRO-NAUTICS ☐ New York, N. Y. (AIAA, 1290 6 Ave., New York, N. Y. 10013) 5/70

APRIL 1971

- 5-8 • Low-Mobility Materials ☐ TECHNION, ISRAEL INST. OF TECHNOLOGY ☐ Eilat, Israel (D. S. Tannhauser, Dept. of Physics, Technion, Haifa, Israel) 5/70

JUNE 1971

- 1-4 • Laser Engineering & Applications ☐ IEEE ☐ Wash., D.C. (D. Herriott, Bell Telephone Labs., Murray Hill, New Jersey 07971) 5/70

- 14-17 • Environmental Pollutants ☐ ASSN. OF OFFICIAL ANALYTICAL CHEMISTS, IUPAC, CHEMICAL INST. OF CANADA, AGRICULTURAL INST. OF CANADA, NATL. RES. COUNCIL OF CANADA ☐ Ottawa, Canada (M. K. Ward, c/o Natl. Res. Council of Canada, Ottawa, Ontario, Canada) 5/70

- 21-24 • Temperature ☐ AIP, INSTRUMENT SOC. OF AMERICA ☐ Wash., D.C. (V. Giardina, ISA, 530 William Penn Place, Pittsburgh, Pa. 15219) 5/70

Topics: Temperature scales; radiation pyrometry; resistance thermometry; thermocouples; magnetic or quantum electronic thermometry; potentiometers and bridges; automated measurements; geophysical and space; biological; special thermometric devices and temperature controls.

OCTOBER 1971

- 6-9 • ☐ OSA ☐ Ottawa, Canada

APRIL 1972

- 11-14 • ☐ OSA ☐ New York, N. Y. ☐

Partial calendar—see note at opening.

SOVIET PHYSICS—DOKLADY

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