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

SEPTEMBER 1970

18–20 • **Nuffield Advanced Physics Course** □ EDUCATION GROUP AND MIDLAND BRANCH OF IPPS □ Birmingham, UK *(Meetings Officer, IPPS, 47 Belgrave Square, London SW1) 9/70*

OCTOBER 1970

5–10 • □ SOC. OF APPLIED SPECTROSCOPY □ New Orleans, La. *(R. T. O'Connor, Cotton Physical Lab, US Dept. of Agriculture, P. O. Box 19687, New Orleans, La. 70119) 9/70*

Topics: UV-visible spectroscopy; infrared-Raman spectroscopy; microwave spectroscopy; internal-reflectance spectroscopy; arc-spark emission spectroscopy; atomic absorption, atomic fluorescence and flame spectroscopy; luminescence; x-ray, nuclear-particle and gamma-ray spectroscopy; *mass spectroscopy*; gas chromatography; NMR; ESR; Mossbauer; characterization of surfaces.

14, 15 • □ NATL. ACAD. OF ENGINEERING □ Washington, D. C. *(Mr. B. Byers, Office of Information, Natl. Acad. of Sciences, 2101 Constitution Ave., Wash., D. C. 20418) 9/70*

19–21 • □ NATL. ACAD. OF SCIENCES □ Houston, Texas *(Mr. B. Byers, Office of Information, Natl. Acad. of Sciences, 2101 Constitution Ave., Wash., D. C. 20418) 9/70*

26, 27 • □ WESTERN STATES SECTION OF COMBUSTION INST. □ Pasadena, Calif. *(Office of Secretary, Western States Section, The Combustion Inst., 16902 Bollinger Drive, Pacific Palisades, Calif. 90272) 9/70*

29–31 • **Education of Secondary-School Physics Teachers** □ ILL. SECTION OF AAPT □ Urbana, Ill. *(R. Miller, Greenville College, Greenville, Ill.) 9/70*

30, 31 • □ LAMPF USERS GROUP □ Los Alamos, N. M. *(L. Agnew, LAMPF Users Group, P. O. Box 1663, Los Alamos, N. M. 87544) 9/70*

NOVEMBER 1970

5–7 • □ PARTICLES AND FIELDS DIV. OF APS □ Austin, Texas *(A. M. Gleeson, Dept. of Physics, Univ. of Texas, Austin, Texas 78712) 9/70*

7 • □ MICH. SECTION OF AAPT □ Albion, Mich. *(H. O. Hooper, Wayne State Univ., Detroit,*

Partial calendar—see note at opening.

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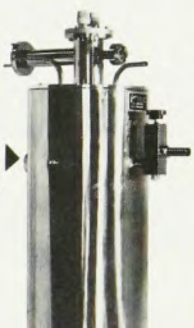

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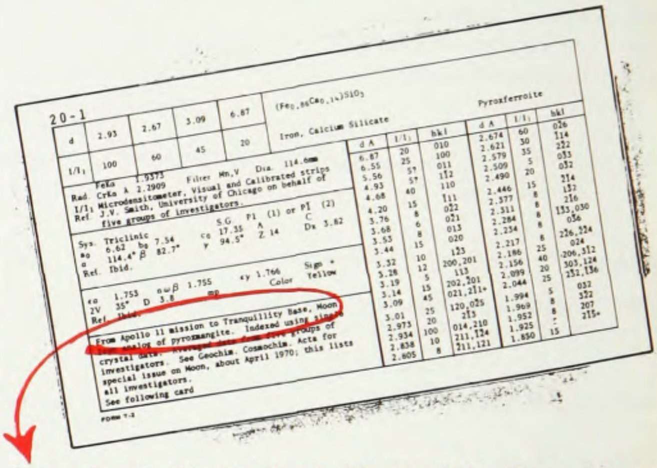
20-1

d	2.93	2.67	3.09	6.87	$(Fe_{0.86}Ca_{0.14})SiO_3$	Pyroxferroite
I/I_1	100	60	45	20	Iron, Calcium Silicate	

Rad. FeKα 1.9373 CrKα λ 2.2909 Filter Mn,V Dia. 114.6mm
I/I_1 Microdensitometer, Visual and Calibrated strips
Ref. J.V. Smith, University of Chicago on behalf of five groups of investigators.

Sys. Triclinic S.G. P1 (1) or P$\bar{1}$ (2)
a₀ 6.62 b₀ 7.54 c₀ 17.35 A C
α 114.4° β 82.7° γ 94.5° Z 14 Dx 3.82
Ref. Ibid.

εα 1.753 nωβ 1.755 εγ 1.766 Sign +
2V 35° D 3.8 mp Color Yellow
Ref. Ibid.

From Apollo 11 mission to Tranquillity Base, Moon ... analog of pyroxmangite. Indexed using single crystal data. ... See Geochim. Cosmochim. Acta for investigators. special issue on Moon, about April 1970; this lists all investigators.
See following card

FORM 7-2

d A	I/I_1	hkl	d A	I/I_1	hkl
6.87	20	010	2.674	60	$0\bar{2}6$
6.55	25	100	2.621	30	$\bar{1}14$
5.56	5?	011	2.579	35	$2\bar{2}2$
4.93	5?	$1\bar{1}2$	2.509	5	$0\bar{3}3$
4.68	40	110	2.490	20	$0\bar{3}2$
4.20	15	$\bar{1}11$	2.446	15	$2\bar{1}4$
3.76	8	$0\bar{2}2$	2.377	8	$1\bar{3}2$
3.68	6	$0\bar{2}1$	2.311	8	$2\bar{1}6$
3.53	8	013	2.284	8	$1\bar{3}3$,030
3.44	15	020	2.234	8	$0\bar{3}6$
3.32	10	$1\bar{2}3$	2.217	8	$2\bar{2}6$,$\bar{2}24$
3.28	12	200,201	2.186	25	024
3.19	5	113	2.156	40	206,$3\bar{1}2$
3.14	15	202,$\bar{2}01$	2.099	20	303,124
3.09	45	021,$2\bar{1}1$+	2.044	25	$2\bar{3}2$,$\bar{1}36$
3.01	25	120,$0\bar{2}5$	1.994	5	032
2.973	20	$2\bar{1}3$	1.969	8	$3\bar{2}2$
2.934	100	014,210	1.952	8	207
2.838	10	211,$1\bar{2}4$	1.925	?	$2\bar{1}5$+
2.805	8	$\bar{2}11$,121	1.850	15	

From Apollo 11 mission to Tranquillity Base, Moon.

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NOVEMBER 1970

Mich. 48202) [10/70] *9/70*

16, 17 • **Surface Features of Mars** □ AAS, INTL. ASSOC. OF PLANETOLOGY □ Huntington Beach, Calif. *(Douglas Advanced Research Labs, McDonnell Douglas Corp, 5251 Bolsa Ave., Huntington Beach, Calif. 92647) 9/70*

JANUARY 1971

4–7 • **Solid-State Physics and Applications** □ FLORIDA ATLANTIC UNIV. □ Boca Raton, Fla. *(J. S. Blakemore, Physics Dept., Florida Atlantic Univ., Boca Raton, Fla. 33432) 9/70*

Topics: Semiconductor materials and devices, integrated circuits, photodetectors, luminescence, surface phenomena, amorphous semiconductors, liquid crystals, ferroelectrics, lasers and ultrashort-pulse phenomena; technologically important superconductors and magnetic devices.

25, 26 • **Optics in Microelectronics** □ OSA □ Las Vegas, Nev. *(OSA Executive Office, 2100 Pennsylvania Ave., N. W., Wash., D. C. 20037)* [10/70] *9/70*

Topics: Substrate characteristics; objective and condenser lens design and testing; visible-light imaging limits; electron-beam scanning and exposure; mask generation; processing parameters; holographic methods, interferometric tests and measurement methods.

FEBRUARY 1971

1–3 • □ DIV. OF PLANETARY SCIENCES OF AAS □ Tallahassee, Fla. *(G. Münch, Dept. of Astronomy, Calif. Inst. of Technology, Pasadena, Calif. 91109) 9/70*

Topics: Comets, radar and radio results, surface effects on atmosphereless bodies.

18, 19 • **Theoretical Chemistry and Sulfur Chemistry** □ New Orleans, La. *(Mardi Gras Symposium, Dept. of Chemistry, Loyola Univ., New*

TEMPERATURE SYMPOSIUM

The 5th Temperature Symposium will be held in Washington, D. C. during 21–24 June 1971. Sponsored by AIP, NBS and the Instrument Society of America, the meeting is the first in ten years and is expected to attract some 1000–1500 participants. Harold H. Plumb of the National Bureau of Standards is program chairman; he anticipates about 200 papers covering the whole field of temperature scales, thermometric devices and methods (including automation and controls) and special environmental problems (high and low temperature, biological, space and geophysics).

R. P. Hudson, also of NBS, is chairman of the general committee, but inquiries for further information should be addressed to V. J. Giardina at the Instrument Society of America, 530 William Penn Place, Pittsburgh, Pa. 15219.

Partial calendar—see note at opening.

Positions Open

UNIVERSITY OF SURREY
DEPARTMENT OF PHYSICS
Theoretical Solid State Physics Group

2 Research Fellowships
3 Research Studentships
2 Computing Assistantships

in a variety of fields are available, to commence in September/-October 1970. The work will be supported with grants from S.R.C., A.E.R.E. and Min. Tech. (Salaries for the fellows will be in the range £1355–1855 and for the computing assistants in the range £1257–1730. The studentships will be at S.R.C. rates.)

Applications, including the names of two referees, should be sent to Miss N. Draper, Secretary, Solid State Physics Groups, Department of Physics, University of Surrey, Guildford, Surrey, England, from whom further particulars are available.

Texas Christian University

Texas Christian University, a liberal arts college with an enrollment of about 7000, invites applications for the position of Chairman of the Department of Physics. TCU instituted a graduate program in 1960 and since then has graduated 130 Ph.D. degrees, of which 22 have been in Physics. Teaching and research assume about equal importance in our philosophy.

The Department of Physics is currently staffed with eight Ph.D. physicists and one instructor of astronomy. Fields of research include NMR, EPR, X-Rays, Lasers electron scattering, calculation of atomic wave functions, and magnetotellurics.

Applicants should (1) have a strong interest in administration, (2) have directed Ph.D. level research, and (3) be capable of providing vigorous leadership in our attempts to enhance the impact of instruction in physics on undergraduate non-science majors. Salary open, duties to commence on September 1, 1971.

Send resume to **H. M. Moseley, Physics Department, TCU, Fort Worth, Texas 76129.** (Suggestions of possible applicants will be appreciated.)

POSTDOCTORAL RESEARCH POST

Studies on chemical physics of amorphous and molecular semiconductors, superconductors and magnets. Write: Prof. Herbert Pohl, Department of Physics, Oklahoma State University, Stillwater, Oklahoma 74074.

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
DEPARTMENT OF PHYSICS
POSTDOCTORAL FELLOWSHIP

A postdoctoral fellowship is available in the research group working in theoretical solid-Earth geophysics and planetary physics: planetary magnetism, dynamics and interiors.

Application should be made to **Professor M. G. Rochester, Physics Department, Memorial University of Newfoundland, St. John's, Newfoundland, Canada,** giving full particulars and the names of three referees.

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NEW LISTING OF SHORT COURSES AND SCHOOLS

14–19 SEPTEMBER

Transmission Electron Microscopy □ UCLA □ Los Angeles, Calif. *(Continuing Education in Engineering and Science, Univ. Extension, UCLA, Los Angeles, Calif. 90024)*

Topics: Geometrical aspects of electron diffraction; basic components and operating modes of the electron microscope; kinematical theory of electron diffraction; dynamical theory of electron diffraction; diffraction contrast from defects in otherwise perfect crystals; Lorentz microscopy; quantitative electron metallography; specimen-preparation techniques; electron fractography. Laboratory demonstrations will supplement lectures.

21–26 SEPTEMBER

Scanning Electron Microscopy □ UCLA □ Los Angeles, Calif. *(Continuing Education in Engineering and Science, Univ. Extension, UCLA, Los Angeles, Calif. 90024)*

Topics: Electron optics of SEM; energy dissipation in solids; secondary electron images; backscattered electron images; x-ray and Auger analysis; cathodoluminescence; electron beam induced current; signal processing; transmission SEM; device fabrication; time-resolved SEM; computer-controlled SEM; scanning electron fractography. Laboratory demonstrations will supplement lectures.

24 FEBRUARY–25 MARCH

Health Physics □ LAWRENCE RADIATION LAB □ Berkeley, Calif. *(E. J. Vallario, Div. of Operational Safety, US Atomic Energy Commission, Washington, D. C. 20545)*

Topics: Fundamental-particle physics, radiation fields and particle accelerators; radiation environments of particle accelerators; biological effects of radiation and radiation safety standards; practical aspects of the measurements of accelerator radiation fields: theory and application of radiation detectors and the interpretation of their readings; accelerator shielding; health-physics administration at accelerators.

1–5 MARCH

Materials Characterization □ PENN STATE UNIV. MATERIALS RESEARCH LAB □ University Park, Pa. *(E. M. Hawk, 102 Engineering Sciences Building, University Park, Pa. 16802)*

Topics: Characterization of the chemical composition (comparing and evaluating emission spectroscopy, solid-state mass spectroscopy, neutron activation) of crystallographic structure, and of the point-, line- and surface-defect content.

17–21 MAY

Materials Properties □ PENN STATE UNIV. MATERIALS RESEARCH LAB □ University Park, Pa. *(E. M. Hawk, 102 Engineering Sciences Building, University Park, Pa. 16802)*

Topics: Dielectric, magnetic, electric and elastic properties.

FEBRUARY 1971

Orleans, La. 70118) 9/70

MARCH 1971

23–26 • Negative Ions □ ATOMIC AND MOLECULAR PHYSICS SUBCOMMITTEE OF IPPS □ Liverpool, UK *(Meetings Officer, IPPS, 47 Belgrave Square, London SW1)* [1/71] 9/70 □