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Compare our new magnet with a typical magnet:

	new typical magnet	giant magnet
stored energy (watt-seconds)	100	10,000
inductance (henrys)	1	105
field intensity (gauss)	30,000	30,000
inside diameter (inches)	.5	4.1
outside diameter (inches)	2.0	6.2
length (inches)	4.5	14.0

## 18 field proved magnet designs

	Field Intensity	Inside Diameter	Winding Length	Field Uniformity	Operating Temperature	Outside Diameter	Overall Length	Delivery - Weeks
1	15,000	2"	4"	1%-1/2"	4.2°K	3"	6"	4
2	30,000	1"	5-1/2"	1%-1"	4.2°K	4"	8-1/4"	7
3	15,000	2"	8"	0.1%-1/2"	4.2°K	3-1/2"	10-1/2"	4
4	50,000	1-1/4"	2-1/2"	10%-1"	4.2°K	4-1/2"	5-1/2"	7
5	30,000	1/2"	2-3/4"	1-1/2%-1/2"	4.2°K	2"	4-1/2"	4
6	30,000	2"	2-1/2"	6%-1/2"	4.2°K	4"	4-1/2"	7
7	50,000	1/2"	3"	1%-1/2"	4.2°K	3"	5-1/2"	4
8	15,000	1-1/4"	6"	0.15%-1/2"	4.2°K	2-3/4"	8-1/2"	4
9	50,000	1"	4-1/4"	2-1/2%-1"	4.2°K	3-3/8"	7-3/8"	7
10	50,000	1"	3-1/4"	5%-1"	4.2°K	4-1/2"	6"	7
11	60,000	3/8"	3-1/4"	1%-1/2"	4.2°K	3-3/4"	5-3/4"	7
12	20,000	1"	11"	.05%-1"	4.2°K	2-1/2"	13-1/4"	7
13	8,000	1/2"	1-3/4"	2-1/2%-1/2"	4.2°K	1-1/8"	4-13/64"	4
14	30,000	1"	2-3/4"	12%-1"	4.2°K	2-47/64"	5-13/64"	7
15	50,000	1-1/4"	4"	2-3/4%-1"	4.2°K	4-1/4"	6-3/8"	7
16	50,000	1-1/2"	4-3/4"	2%-1"	4.2°K	4-3/8"	7-25/32"	9
17	50,000	2"	4-3/16"	3%-1"	4.2°K	5-3/8"	6-25/32"	9
18	30,000	4.1"	9-1/2"	8%-4"	4.2°K	6-1/4"	12-13/64"	12

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# CALENDAR

Meeting announcements intended for inclusion in the calendar should be submitted at least eight weeks before meetings are to take place. Send notices to Physics Today, 335 East 45th Street, New York 17, N. Y.

• denotes first appearance of announcement

▲ denotes change in information published in previous listing

## 1963

### October

14-15 • Some Recent Developments in the Basic Sciences (Yeshiva U.) spon's'd by Yeshiva Graduate School of Science: A. Gelbart, *Belfer Graduate School of Science, Yeshiva U., Amsterdam & W. 186 St., New York 33, N. Y.*

18-19 **American Physical Society** (Chicago): K. K. Darrow, *538 W. 120th St., New York 27, N. Y.*

20-24 Society of Exploration Geophysicists (New Orleans): T. O. Hall, *Box 1536, Tulsa 1, Okla.*

21 Alloying Behavior in Concentrated Solid Solutions (Cleveland, Ohio) spon's'd by American Inst. of Mining, Metallurgical, and Petroleum Engrs.; send abstracts to D. A. Parks, *Metallurgical Soc., AIME, 345 E. 47 St., New York 12, N. Y.*; T. B. Masalski, *Mellon Inst., 4400 Fifth Ave., Pittsburgh 13, Pa.* (See July PT, p. 76)

21-23 Direct Aeronomic Measurements in the Lower Ionosphere (U. of Illinois): S. A. Bowhill, *Dept. of Electrical Engrg., U. of Ill., Urbana, Ill.* (See Sept. PT, p. 108)

21-25 Metal Show and Congress (Cleveland) spon's'd by American Soc. for Metals: ASM, *Stanford U., Stanford, Calif.*

21-25 Society for Nondestructive Testing (Cleveland): P. D. Johnson, *914 Chicago Ave., Evanston, Ill.*

21-25 Beryllium Oxide (Sydney): *Conf. Secretary, Australian Atomic Energy Commission Research Establishment, Private Mail Bag, Netherland, New South Wales, Australia*

23-25 **Optical Society of America** (Sherman House, Chicago): Mary Waga, *1155 16th St., N.W., Washington 6, D. C.* (See June PT, p. 108)

25-26 Theoretical Physics (U. of N. Carolina): E. Merzbacher, *Dept. of Physics, U. of N. Carolina, Chapel Hill, N. C.*

28-29 Combustion Institute Western States Section (U. of Southern Calif.): *Secretary, Combustion Inst. Western States Section, 16902 Bollinger Dr., Pacific Palisades, Calif.* (See Mar. PT, p. 94)

29-31 Plasma Phenomena and Measurement (San Diego) spon's'd by Inst. of Electrical and Electronics Engrs.: IEEE, *Box A, Lenox Hill Sta., New York 21, N. Y.* (See June PT, p. 108)

31-1 Transition-Metal Compounds: Transport and Magnetic Properties (Carnegie Tech) spon's'd by Carnegie Tech, Buhl Foundation: E. R. Schatz, *Carnegie Tech, Pittsburgh 13, Pa.* (See Aug. PT, p. 76)

### November

3-6 Electrical Insulation (White Sulphur Springs, W. Va.) spon's'd by Nat'l Academy of Sciences: D. W. Thornhill, *NAS-NRC, 2101 Constitution Ave., Washington 25, D. C.*

6-8 Diffraction (Mellon Inst., Pittsburgh): W. M. Diagas, *Crucible Steel Co., PO Box 7257, Pittsburgh 13, Pa.* (See July PT, p. 76)

6-9 **APS Division of Plasma Physics** (El Cortez Hotel, San Diego) spon's'd by General Atomic, Division of General Dynamics: A. Simon, *c/o General Atomic, PO Box 608, San Diego 12, Calif.* (See Mar. PT, p. 102)

6-9 **Acoustical Society of America** (Ann Arbor): G. Peterson, *U. of Mich., Ann Arbor, Mich.*

7-9 **APS Southeastern Section** (U. of Kentucky, Lexington): H. Carr, *Auburn U., Auburn, Ala.*

11-15 Physics and Material Problems of Reactor Control Rods (Vienna) spon's'd by Internat'l Atomic Energy Agency: IAEA, *United Nations, New York 17, N. Y.*

12-14 Fall Joint Computer Conference (Las Vegas) spon's'd by American Federation of Information Processing Socs.: Phyllis Huggins, *AFIPS, PO Box 55, Malibu, Calif.* (See Apr. PT, p. 118)

12-14 Severe Storms (Urbana, Ill.) spon's'd by American Meteorological Soc.: AMS, *45 Beacon St., Boston 8, Mass.* (See Aug. PT, p. 76)

12-15 Magnetism and Magnetic Materials (Atlantic City) spon's'd by **American Inst. of Physics**, Inst. of Electrical and Electronics Engrs.: W. D. Doyle, *Franklin Inst. Labs, Philadelphia 3, Pa.* (See June PT, p. 110)

13-15 Eastern Analytical Symposium and Instrument Exhibit (Statler Hilton Hotel, New York City): M. Slavin, *Brookhaven Nat'l Lab, Upton, N. Y.*

18-21 American Nuclear Society (New York City), meeting jointly with Atomic Industrial Forum and Atom Fair: O. J. Du Temple, *ANS, 86 E. Randolph St., Chicago 1, Ill.*

19 Materials for Sodium-Cooled Nuclear Power Reactors (New York City) spon's'd by American Inst. of Mining, Metallurgical, and Petroleum Engrs., American Nuclear Soc., at ANS Winter meeting: R. B. Gordon, *Nuclear Metallurgy Committee, AIME, PO Box 309, Canoga Pk., Calif.* (See Sept. PT, p. 108)

19-21 Stratosphere-Mesosphere Structure (El Paso) spon's'd by American Meteorological Soc.: AMS, *45 Beacon St., Boston 8, Mass.* (See Aug. PT, p. 76)



# OPENINGS IN MAGNETOHYDRODYNAMICS

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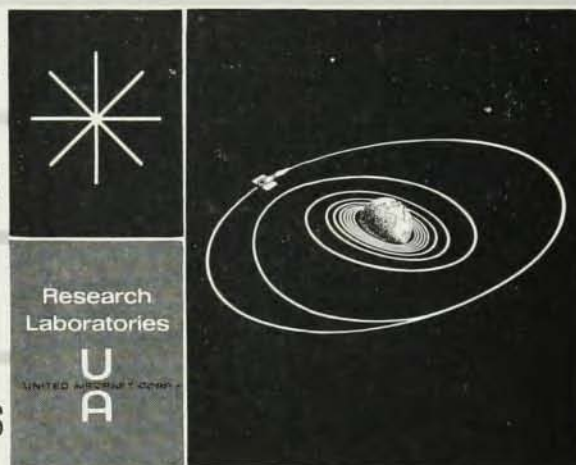
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- 25-27 Geological Society of America (New York City): F. Betz, Jr., 410 W. 117 St., New York 27, N. Y.
- 25-27 Nuclear Electronics (Paris) spons'd by Soc. Française des Electroniciens et Radio-Electriciens: SFER, 10, av. Pierre-Larousse, Malakoff, Seine, France
- 25-27 **APS Division of Fluid Dynamics** (MIT): R. J. Emrich, Dept. of Physics, Lehigh U., Bethlehem, Pa. (See June PT, p. 110)
- 29-30 Biomagnetics (College of Pharmacy, U. of Ill.): M. F. Barnothy, College of Pharmacy, U. of Ill., 333 S. Wood St., Chicago 12, Ill.

## December

- 2-14 Cosmic Rays (Jaipur, India) spons'd by Internat'l Union of Pure and Applied Physics, Indian Dept. of Atomic Energy: R. R. Daniel, Tata Inst. of Fundamental Research, Colaba, Bombay 5, India
- 4-6 Ultrasonics (Washington, D. C.) spons'd by Inst. of Electrical and Electronics Engrs.: IEEE, Box A, Lenox Hill Sta., New York 21, N. Y. (See June PT, p. 108)
- 6-7 Signal Statistics (Seattle) spons'd by US Nat'l Committee of Internat'l Scientific Radio Union, Boeing Scientific Research Labs, U. of Washington College of Engrg., Inst. of Electrical and Electronics Engrs.: D. K. Reynolds, PO Box 3981, Seattle 24, Wash. (See Sept. PT, p. 108)
- 9-11 International Scientific Radio Union—Institute of Electrical and Electronics Engineers (Seattle): US Nat'l Committee, Internat'l Scientific Radio Union, 2101 Constitution Ave., N.W., Washington 25, D. C.
- 9-13 Isotope Mass Effects in Chemistry and Biology (Vienna) spons'd by Internat'l Atomic Energy Agency, Internat'l Council of Scientific Unions' Joint Commission on Applied Radioactivity: J. H. Kane, Chief, Internat'l Confs. Branch, Div. of Special Projects, Atomic Energy Commission, Washington 25, D. C. (See Aug. PT, p. 78)
- 11-13 Heterogeneous Combustion (Palm Beach, Fla.) spons'd by American Inst. of Aeronautics and Astronautics: AIAA, 500 Fifth Ave., New York 36, N. Y. (See July PT, p. 76)
- 16-17 Nonlinear Processes in the Ionosphere (Boulder) spons'd by Nat'l Bureau of Standards Central Radio Propagation Lab: R. T. Frost, Radio Building, NBS, Boulder, Colo. (See Sept. PT, p. 108)
- 16-18 Gravitational Collapse and Other Topics in Relativistic Astrophysics (Dallas): I. Robinson, Southwest Center for Advanced Studies, PO Box 8478, Dallas, Tex.
- 16-18 Electrical and Magnetic Properties of Thin Films in Relation to Their Structure (Imperial College, London) spons'd by Inst. of Physics and Physical Soc.: Administration Assistant, IPPS, 47 Belgrave Sq., London, S.W.1, England
- 19-20 Radiation Emergencies in Medicine, Research, and Industry (Pick-Congress Hotel, Chicago) spons'd by Midwest Chapter of Health Physics Soc.: R. V. Wheeler, Argonne Nat'l Lab., 9700 S. Cass Ave., Argonne, Ill.

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## EXAMPLE

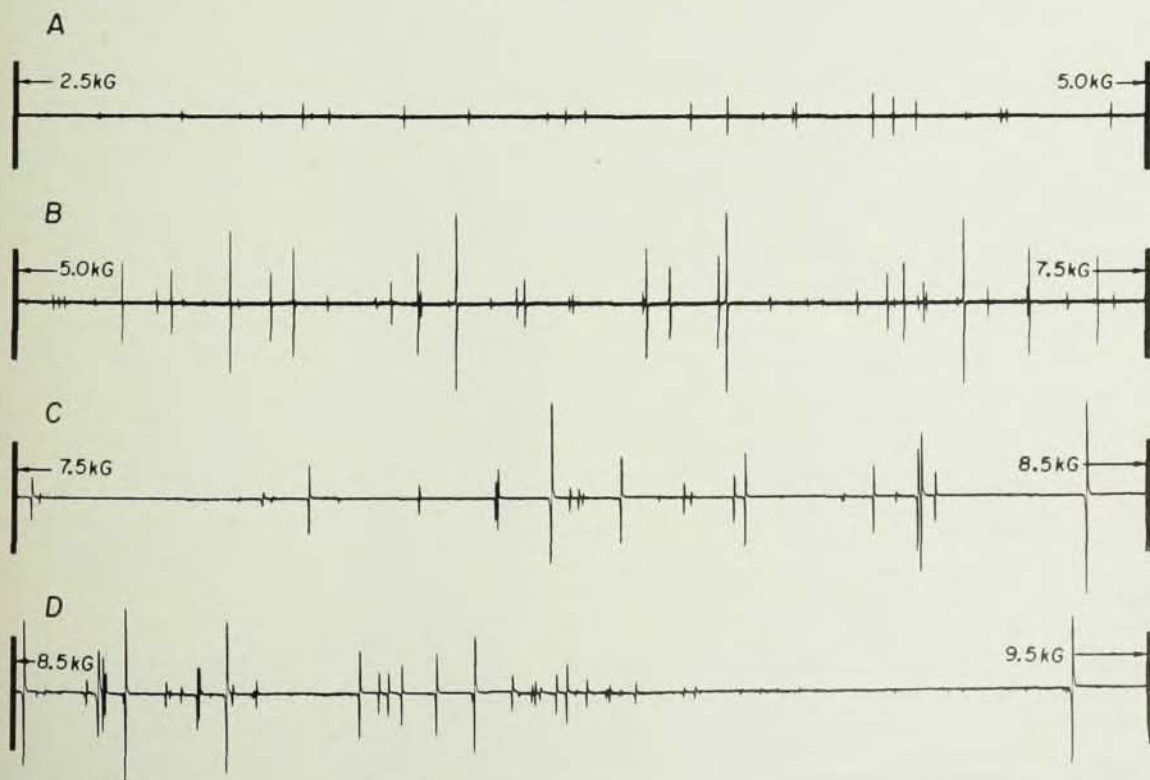
### The EPR Spectrum of Molecular Oxygen.

Molecular oxygen is paramagnetic and has been studied in the gas phase with EPR techniques by Tinkham and Strandberg, and by Bowers, Kamper and Lustig.<sup>†</sup> To our knowledge, however, the actual spectrum has not been published. The figure shows the spectrum of molecular oxygen from 2500 to 9500 gauss. Trace A was obtained by setting the direct reading magnetic field dial of the FIELDIAL\* regulator to 3750 gauss, and the sweep interval to 2500 gauss resulting in a linear sweep

from 2500 to 5000 gauss. The sweep time was 100 minutes. In a similar manner trace B was obtained to cover the range from 5000 to 7500 gauss. It was convenient to expand the scale above 7500 gauss, where the density of resonance lines is high. Traces C and D cover 1000 gauss intervals. The sample was at room temperature; the oxygen pressure was 180 microns; and the microwave frequency was 9.265 kMc.

\*Trademark

<sup>†</sup>M. Tinkham and M. W. P. Strandberg, *Phys. Rev.* 97, 937, 951 (1955); K. D. Bowers, R. A. Kamper and C. D. Lustig, *Proc. Roy. Soc. A*, 251, 565 (1959).



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- 19-21 **American Physical Society** (Pasadena): W. A. Nierenberg, U. of Calif., Berkeley 4, Calif.
- 26-28 **American Astronomical Society** (Washington, D. C.): G. C. McVittie, U. of Illinois Observatory, Urbana, Ill.
- 26-28 **American Geophysical Union** (Boulder): W. W. Kellogg, Rand Corp., 1700 Main St., Santa Monica, Calif. (See Aug. PT, p. 78)
- 26-30 **American Association for the Advancement of Science** (Cleveland): R. L. Taylor, AAAS, 1515 Massachusetts Ave., N.W., Washington 5, D. C.

1964

### January

- 1-4 Solid-State Physics (U. of Bristol) spons'd by Inst. of Physics and Physical Soc.; send abstracts by Nov. 15 to R. G. Chambers, H. H. Wills Lab, Royal Fort, Bristol 8; Administration Assistant, IPPS, 47 Belgrave Sq., London, S.W.1, England
- 20-22 **American Institute of Aeronautics and Astronautics** (New York City): AIAA, 500 Fifth Ave., New York 36, N. Y.
- 20-23 **Semiconductor Applications** (London): U.T.P. Applications Ltd., Racquet Court, Fleet St., London, E.C.4, England
- 20-24 **American Mathematical Society** (Miami): AMS, 190 Hope St., Providence 6, R. I.
- 21 • **Semimetals** (Columbia U.), **American Physical Soc. Topical Conf.**; abstracts deadline Oct. 21: S. H. Koenig, IBM Watson Lab, 612 W. 115 St., New York 25, N. Y.
- 22-25 **American Physical Society** (Statler-Hilton Hotel, New York City); abstracts deadline Nov. 9: K. K. Darro, 538 W. 120 St., New York 27, N. Y.
- 22-25 **American Association of Physics Teachers** (Statler-Hilton Hotel, New York City): E. U. Condon, Joint Inst. for Laboratory Astrophysics, U. of Colo., Boulder, Colo.
- 25-27 **Mathematical Association of America** (Miami): H. M. Gehman, U. of Buffalo, Buffalo 14, N. Y.
- 29-31 **Solid-Propellant Rockets** (Palo Alto—Sunnyvale, Calif.) spons'd by American Inst. of Aeronautics and Astronautics: AIAA, 500 Fifth Ave., New York 36, N. Y. (See July PT, p. 76)
- 29-31 **American Meteorological Society** (Los Angeles): AMS, 45 Beacon St., Boston 8, Mass. (See Aug. PT, p. 76)

### February

- 2-11 **Documentation and Scientific Technical Information** (Rome): Executive Secretary, Viale Regina Margherita, 83D, Rome, Italy
- 3-7 **American Society for Testing and Materials** (Sheraton Hotel, Philadelphia): ASTM, 1916 Race St., Philadelphia 3, Pa. (See Nov. '62 PT, p. 102)

PHYSICS TODAY





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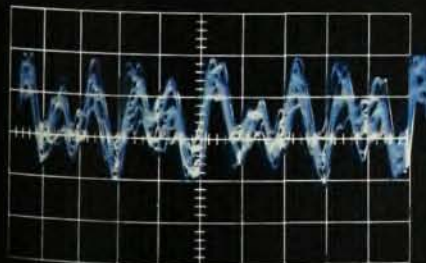
Here is how the Enhancetron 1024 works: Signals obscured by noise are digitized at 1024 time intervals, and the results recorded

as 1024 numbers in a magnetic core memory. Positive numbers indicate positive input voltages, negative numbers negative input voltages. This is repeated for each signal recurrence, with the numbers for corresponding time intervals numerically added. Noise in general tends to average toward zero, since it is as likely to be positive as negative. THE SIGNAL OF INTEREST ADDS LINEARLY. The signal-to-noise ratio improves in proportion to the square root of the num-

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Write or phone Nuclear Data for further information and literature.



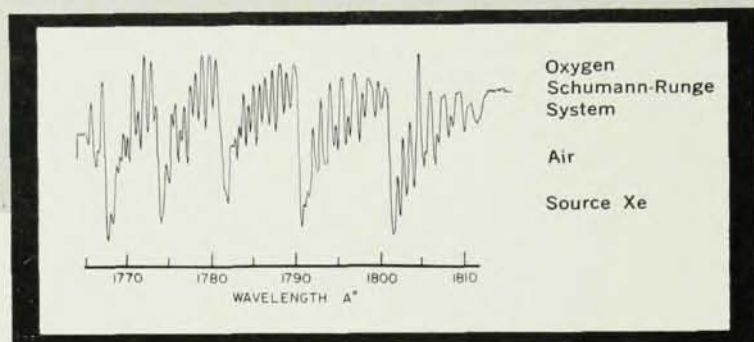
LEFT: Input signal indicating vibrations of a complex machine, due to several unrelated forces. RIGHT: Enhancetron 1024 output signal indicating motion due to a single vibration-producing member.



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- 12-14 Solid-State Circuits (Philadelphia) spons'd by Inst. of Electrical and Electronics Engrs., U. of Pa.: *IEEE, Box A, Lenox Hill Station, New York 21, N. Y.*
- 17-20 Metals for Use at High Temperatures (New York City) spons'd by Metallurgical Soc. of American Inst. of Mining, Metallurgical, and Petroleum Engrs.: *D. A. Parks, Metallurgical Soc., Inst. of Metals Div., 345 E. 47th St., New York 17, N. Y.*
- 18 Physical Metallurgy of Superconductors (Hotel Astor, New York City) spons'd by Metallurgical Soc. of American Inst. of Mining, Metallurgical, and Petroleum Engrs.; abstracts deadline October 31: *C. D. Graham, Jr., General Electric Research Lab, Schenectady, N. Y.*
- 26-28 Scintillation and Semiconductor Counters (Washington, D. C.) spons'd by Inst. of Electrical and Electronics Engrs., Atomic Energy Commission, Nat'l Bureau of Standards; send abstracts by Dec. 1 to *W. A. Higinbotham, Brookhaven Nat'l Labs, Upton, N. Y.; G. A. Morton, RCA Labs., Princeton, N. J.* (See July PT, p. 78)
- 27-29 American Physical Society (Tucson); abstracts deadline Dec. 13: *K. K. Darrow, 538 W. 120th St., New York 27, N. Y.*

## March

- 2-6 Analytical Chemistry and Applied Spectroscopy (Pittsburgh) spons'd by American Chemical Soc., Spectroscopy Soc. of Pittsburgh: *R. B. Fricioni, Allegheny Ludlum Steel Corp., Quality Control Lab, Research Center, Brackenridge, Pa.* (See Sept. PT, p. 108)
- 4-6 Thermal Radiation of Solids (Sheraton Palace Hotel, San Francisco) spons'd by Nat'l Bureau of Standards, Nat'l Aeronautics and Space Administration, US Air Force, U. of Calif.: *W. D. Harris, Engrg. and Sciences Extension, U. of Calif., Berkeley 4, Calif.* (See Sept. PT, p. 110)
- 10-12 The Exploding Conductor Phenomenon (Boston) spons'd by Air Force Cambridge Research Labs: *AFCRL, W. G. Chace, CRO, L. G. Hanscom Field, Bedford, Mass.*
- 23-26 American Physical Society (Philadelphia); abstracts deadline Jan. 10: *K. K. Darrow, 538 W. 120 St., New York 27, N. Y.*
- 23-26 Institute of Electrical and Electronics Engineers (New York City): *IEEE, Box A, Lenox Hill Sta., New York 21, N. Y.*
- 24-26 Physics and Dynamics of Clouds (Chicago) spons'd by American Meteorological Soc.: *AMS, 45 Beacon St., Boston 8, Mass.* (See Aug. PT, p. 78)

## April

- 1-2 Engineering Aspects of Magnetohydrodynamics (Massachusetts Inst. of Technology) spons'd by Inst. of Electrical and Electronics Engrs., American Inst. of Aeronautics and Astronautics, MIT: *IEEE, Box A, Lenox Hill Sta., New York 21, N. Y.*

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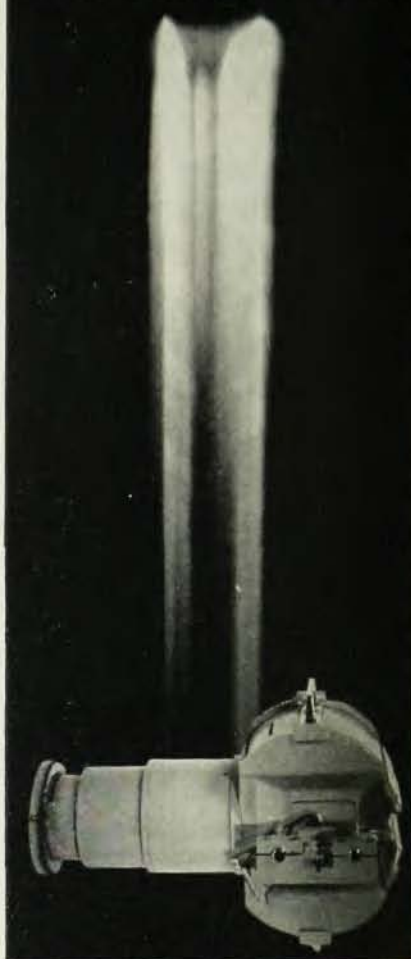
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- 1-3 **Optical Society of America** (Sheraton Park Hotel, Washington, D. C.); *Mary Wurga, 1155 16th St., N.W., Washington 6, D. C.*
- 6-8 **Nonlinear Magnetism** (Shoreham Hotel, Washington, D. C.) spons'd by Inst. of Electrical and Electronics Engrs.; *W. L. Shevel, Jr., Internat'l Business Machines, MKD 807, PO Box 218, Yorktown Hts., N. Y.* (See Sept. PT, p. 110)
- 15-17 **High-Energy Physics** (Rutherford Lab) spons'd by Inst. of Physics and Physical Soc.; *Administration Assistant, IPPS, 47 Belgrave Sq., London, S.W.1, England*
- 20-24 **Medical Radioisotope Scanning** (Athens) spons'd by Internat'l Atomic Energy Agency; abstracts deadline Nov. 16; *J. H. Kane, Conferences Branch, Special Projects Div., Atomic Energy Commission, Washington 25, D. C.* (See Sept. PT, p. 110)
- 21-23 **Spring Joint Computer Conference** (Washington, D. C.) spons'd by American Federation of Information Processing Soc.; *Phyllis Huggins, AFIPS, PO Box 55, Malibu, Calif.*
- 22-25 **Rare Earths** (Phoenix, Ariz.); abstracts deadline Nov. 4; *L. Eyring, Arizona State U., Tempe, Ariz.*
- 27-28 **Combustion Institute Western States Section** (Santa Clara County, Calif.); *Secretary, CI/WSS, 16902 Bollinger Dr., Pacific Palisades, Calif.*
- 27-30 **American Physical Society** (Washington, D. C.); abstracts deadline Feb. 14; *K. K. Darow, 538 W. 120 St., New York 27, N. Y.*
- 27-1 **Society of Photographic Scientists and Engineers** (New York City) cospons'd by Columbia U. School of Engineering and Applied Sciences; *W. Clark, Eastman Kodak Co., Research Labs, Rochester 4, N. Y.*

## May

- 4-8 **Strata Control and Rock Mechanics** (New York City); *S. Boshkov, Columbia U., New York 27, N. Y.*
- 5-6 **Human Factors in Electronics** (San Diego) spons'd by Inst. of Electrical and Electronics Engrs.; send abstracts by Oct. 30 to M. Freitag, Ryan Aeronautical Co. Electronics Div., 5650 Kearny Mesa Rd., San Diego 12, Calif.; *IEEE, Box A, Lenox Hill Sta., New York 21, N. Y.*
- 6-9 **Acoustical Society of America** (New York City); abstracts deadline Feb. 5; *R. Frosch, Columbia U.-Hudson Labs, 145 Palisades St., Dobbs Ferry, N. Y.*
- 7-8 **Vacuum Microbalance Techniques** (Mellon Inst., Pittsburgh); abstracts deadline Mar. 26; *F. A. Brassart, Westinghouse Research and Development Center, Beulah Rd., Churchill Boro, Pittsburgh 35, Pa.*
- 19-21 **Microwave Theory and Techniques** (Internat'l Airport, Idlewild, N. Y.) spons'd by Inst. of Electrical and Electronics Engrs.; *L. Swern, Sperry Gyroscope Co., 3 T 105, Great Neck, N. Y.*
- 25-27 **Power Reactors and Radioisotopes** (Toronto) spons'd by Canadian Nuclear Assoc.; *General Manager, CNA, 19 Richmond St. W., Toronto 1, Ont., Canada*

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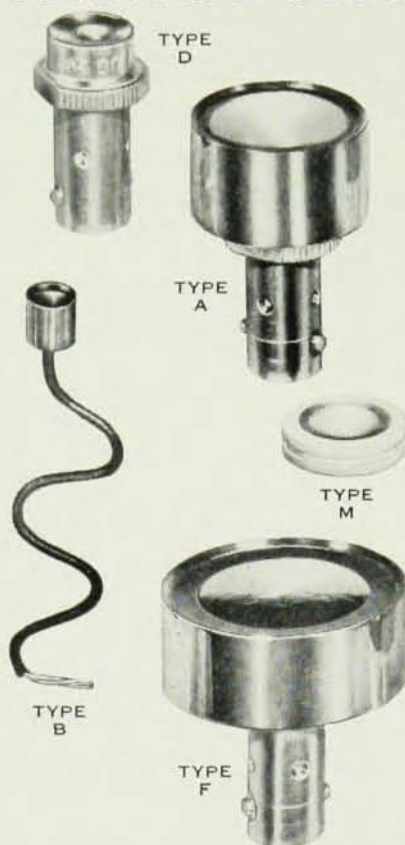
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- 25-29 Society of Physical Chemistry (Bordeaux): *G. Emschwiller, Societe de Chimie Physique, 10 rue Vauquelin, Paris 5, France*
- 27-29 Canadian High-Polymer Forum (Ste. Marguerite, Que.) spons'd by Nat'l Research Council of Canada, Chemical Inst. of Canada; send abstracts by Feb. 15 to L. Breitman, Polymer Corp. Ltd., Sarnia, Ont.: *H. Daoust, U. de Montreal, PO Box 6128, Montreal, Que., Canada* (See Sept. PT, p. 110)

## June

- 8-10 Quasi-Optics (Statler-Hilton Hotel, New York City) spons'd by Microwave Research Inst. of Polytechnic Inst. of Brooklyn, Inst. of Electrical and Electronics Engrs., US Defense Agencies; mss deadline Dec. 31: *J. Fox, PIB, 55 Johnson St., Brooklyn 1, N. Y.*
- 14-18 Health Physics Society (Cincinnati): *H. E. Kolde, Taft Sanitary Engrg. Center, Cincinnati 26, Ohio*
- 16-18 Precision Electromagnetic Measurements (Boulder, Colo.) spons'd by Nat'l Bureau of Standards, Inst. of Electrical and Electronics Engrs., Internat'l Scientific Radio Union US Commission I: *Office of Technical Information, NBS, Washington 25, D. C.*
- 18-20 American Association of Physics Teachers (U. of Wisc., Madison)
- 18-20 Precision Electromagnetic Measurements (Boulder) spons'd by Inst. of Electrical and Electronics Engrs., Nat'l Bureau of Standards: *IEEE, Box A, Lenox Hill Sta., New York 21, N. Y.*
- 21-26 Physics and Chemistry of Solid Surfaces (Brown U.): *H. E. Farnsworth, Brown U., Providence, R. I.*
- 21-26 American Society for Testing and Materials (Chicago): *ASTM, 1916 Race St., Philadelphia 3, Pa.* (See Aug. PT, p. 80)
- 22-24 Photosensitization in Solids (Chicago) spons'd by Illinois Inst. of Technology: *L. Grossweiner, Dept. of Physics, IIT, Chicago 16, Ill.* (See Sept. PT, p. 112)
- 25-26 Fundamental Phenomena in Hypersonic Flow (Buffalo, N. Y.) spons'd by Cornell Aeronautical Lab: *J. T. McCarthy, Public Relations, Cornell Aeronautical Lab, PO Box 235, Bujalo, N. Y.*
- 25-27 American Physical Society (Denver): *K. K. Darrow, 538 W. 120 St., New York 27, N. Y.*
- 29-3 Vacuum Techniques in Space Research (Paris) spons'd by French Soc. of Vacuum Engrs. and Technicians: *J. Mainier, 147 Blvd. de Strasbourg, Nogent-sur-Marne, Seine, France*

## July

- 2-8 Nuclear Physics (Paris) spons'd by UNESCO, Internat'l Union of Pure and Applied Physics, on 30th anniversary of discovery of artificial radioactivity: *Congrès Internat'l de Physique Nucléaire, PO Box 14, Orsay, Seine-et-Oise, France*

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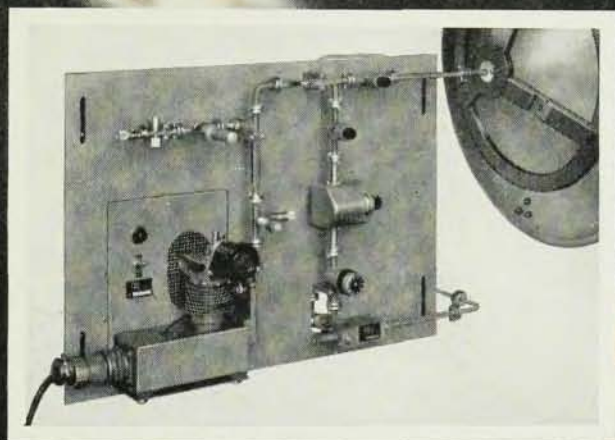
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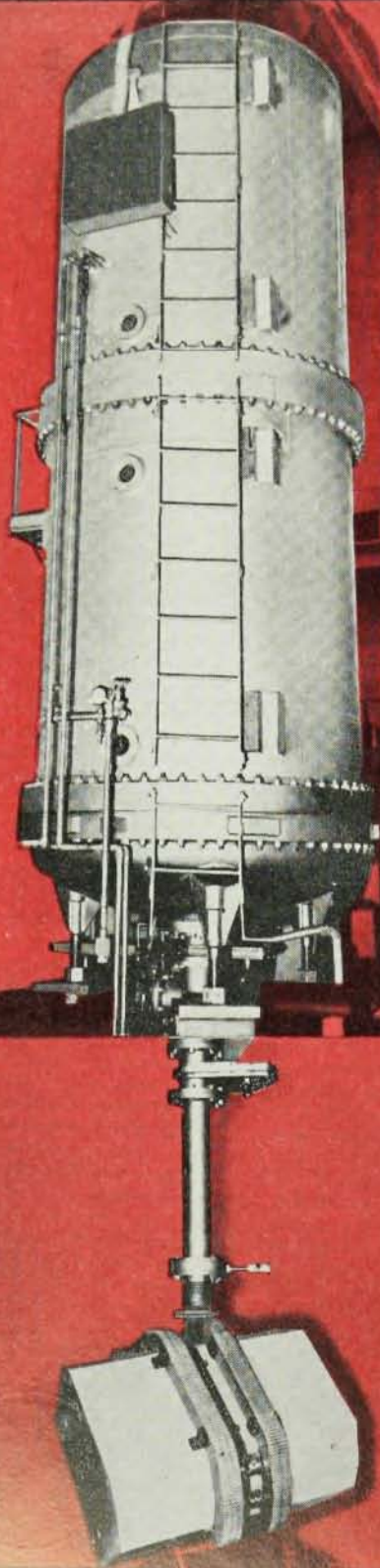


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- 6-10 Magnetohydrodynamic Electrical Power Production (Paris) spons'd by European Nuclear Energy Agency, French National Inst. of Nuclear Science and Technology: *ENEA, 38, Blvd. Suchet, Paris 16, France* (See Sept. PT, p. 112)
- 7-10 Rarefied Gas Dynamics (Toronto): *G. N. Patterson, Inst. of Aerophysics, U. of Toronto, Toronto 5, Ont., Canada*
- 20-24 Physics of Semiconductors (Paris) spons'd by Internat'l Union of Pure and Applied Physics, French Society of Physics: *M. Balkanski, Laboratoire of Physics, Ecole Normale Supérieure, 24 rue Lhomond, Paris 5, France* (See Sept. PT, p. 112)
- 26-31 American Crystallographic Association (Montana State College): *E. Post, Brooklyn Polytechnic Inst., Brooklyn 1, N. Y.*

## August

- 4-10 Reactivity of Solids (Munich) spons'd by Internat'l Union of Pure and Applied Physics, Internat'l Union of Pure and Applied Chemistry: *R. Morf, F. Hoffman-La Roche et Cie., Basel 2, Switzerland*
- 17-21 Combustion (Cambridge U.) spons'd by Combustion Inst., Cambridge Physical Chemistry Dept.; abstracts deadline Jan. 15: *Combustion Inst., 986 Union Trust Bldg., Pittsburgh 19, Pa.* (See Aug. PT, p. 80)
- 25-29 Electron Microscope Society of America (Detroit): *A. Taylor, Virus Div., Parke Davis Co., Detroit 32, Mich.*
- 26-2 Logic, Methodology, and Philosophy of Science (Jerusalem) spons'd by Internat'l Union for History and Philosophy of Science: *Y. Bar-Hillel, Hebrew U., Jerusalem, Israel*
- 30-5 Applied Mechanics (Munich): *Organisations Secretariat, Mechanics Congress, Inst. for Mechanics, Arcisstr. 21, Munich, Germany* (See June PT, p. 112)
- 31-2 Mathematical Association of America (U. of Mass., Amherst): *H. M. Gehman, State U. of New York, Buffalo 14, N. Y.*
- 31-4 Low-Temperature Physics (Columbus) spons'd by Internat'l Union of Pure and Applied Physics, Ohio State U., Battelle Memorial Inst.: *J. G. Daunt, Dept. of Physics, Ohio State U., Columbus, Ohio*

## September

- 1-8 Photographic and Spectroscopic Optics (Tokyo and Kyoto) spons'd by Internat'l Commission for Optics, Science Council of Japan, Japanese Soc. of Applied Physics; abstracts deadline Jan. 31: *H. Kubota, Science Council of Japan, Ueno Park, Tokyo, Japan* (See July PT, p. 78)
- 7-11 Magnetism (U. of Nottingham) spons'd by Internat'l Union of Pure and Applied Physics, British Nat'l Committee for Physics: *Deputy Secretary, IPPS, 47 Belgrave Sq., London, S.W.1, England*

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- 14-18 Mass Spectrometry (Paris) spons'd by American Soc. for Testing and Materials, GAMS, Hydrocarbon Research Group; abstracts deadline Nov. 30: Secretariat, GAMS, 1, rue Gaston Boissier, Paris 15, France
- 22-24 Antennas and Propagation (Long Island, N. Y.) spons'd by Inst. of Electrical and Electronics Engrs.: H. Jasik, 100 Shames Dr., Westbury, N. Y.
- 23-25 Fundamental Problems of Low-Pressure Measurements (Nat'l Physical Lab, Teddington) spons'd by Nat'l Physical Lab, Inst. of Physics and Physical Soc.; abstracts deadline Nov. 30: R. S. Dadson, Standards Div., Nat'l Physical Lab, Teddington, Middlesex, England
- 26-3 Electron Microscopy (Prague) spons'd by Internat'l Federation of Societies for Electron Microscopy: Organizing Committee, Albertov 4, Prague 2, Czechoslovakia

### October

- 12-16 Instrument Society of America (New York City): ISA Mts. Mgr., Penn Sheraton Hotel, 530 Wm. Penn Pl., Pittsburgh 19, Pa.
- 21-24 Acoustical Society of America (Austin, Tex.): C. P. Boner, U. of Texas, Univ. Sta., Austin, Tex.
- 26-27 Combustion Institute Western States Section (U. of Utah): Secretary, CI/WSS, 16902 Bollinger Dr., Pacific Palisades, Calif.

### November

- 16-19 Magnetism and Magnetic Materials (Minneapolis) spons'd by American Inst. of Physics, Inst. of Electrical and Electronics Engrs.; R. Prosen, Minneapolis-Honeywell Research Center, Hopkins, Minn.
- 17-19 Fall Joint Computer Conference (Brooks Hall, San Francisco) spons'd by American Federation of Information Processing Socs.: Phyllis Hugkins, AFIPS, PO Box 55, Malibu, Calif.

### December

- 14-22 International Geological Congress (New Delhi): Secretary General, c/o Geological Survey of India, 27, Chowringhee, Calcutta 13, India

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