

# CALENDAR

Information in the calendar is compiled from a file maintained in the PHYSICS TODAY office. Readers are invited to write or telephone for information beyond what we print. The date at the end of each item refers to the issue of PHYSICS TODAY in which the item is listed with more detail than appears in subsequent issues.

ABBREVIATIONS: APS, American Physical Society; OSA, Optical Society of America; ASA, Acoustical Society of America; S of R, Society of Rheology; AAPT, American Association of Physics Teachers; ACA, American Crystallographic Association; AAS, American Astronomical Society; AEC, US Atomic Energy Commission; AFCL, Air Force Cambridge Research Laboratories; 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 of each item is as follows: date subject  HOST   
Location (Contact) [submission deadline] PT ref.

• new listing    ♦ new information

## DECEMBER 1967

- 18-20  APS  Pasadena, Calif. (W. Whaling) 9/67  
26-30  AAAS  New York (R. L. Taylor) 9/67

## JANUARY 1968

- 3-6 Solid-State Physics  IPPS  Manchester, England (Meetings Officer, IPPS) [10/27] 8/67  
24, 25 Health Physics  HEALTH PHYSICS SOCIETY  Augusta, Ga. (J. H. Horton) [10/16] 8/67  
29-31 Laser Safety  US PUBLIC HEALTH SERVICE-CHILDREN'S HOSPITAL RESEARCH FOUNDATION  Cincinnati, Ohio (Mrs. M. S. Runck) 10/67  
29-31 Photosensitization in Solids  AFCL  Tucson, Ariz. (N. F. Yannoni) 10/67  
29-1  APS  Chicago (R. G. Sachs) 12/66  
29-1  AAPT  Chicago (S. S. Ballard) 2/67  
29-2 Measurement Engineering  ARIZONA STATE U.  Tempe, Ariz. (P. Stein) [1/19] 10/67

## FEBRUARY 1968

- 1, 2 • Spectroscopy  WESTERN SPECTROSCOPY ASSOCIATION  Asilomar, Calif. (H. Brown, Varian Associates, Analytical Instruments Division, 611 Hansen Way, Palo Alto, Calif. 94303) 12/67

- 1-3 Solar Astronomy  AAAS  Tucson, Arizona (N. Sheeley) [12/7] 9/67  
4-7  ACA  Tucson, Ariz. (D. H. Templeton) 9/67  
5-7  S of R  San Diego, Calif. (J. F. Johnson) 9/67  
14-16 Solid State Circuits  IEEE  U. of Pennsylvania, Philadelphia (R. Webster) [10/23] 10/67  
23, 24 Nuclear Conference  U. OF SASKATCHEWAN  Regina, Saskatchewan, Canada (Physics Dept., U. of Saskatchewan) 11/67  
26, 27 Gas Phase Molecular Structure  U. OF TEXAS  Austin, Tex. (H. P. Hanson) [12/15] 11/67  
26-28  APS  Boston (W. W. Havens Jr.) 9/67  
26-29 Elementary Particles  INSTITUT FÜR THEORETISCHE PHYSIK DER UNIVERSITÄT GRAZ  Schladming, Styria, Austria (H. Kühnelt) 10/67  
26-1 Lasers and Their Engineering Applications  U. OF CALIFORNIA EXTENSION  Berkeley, Calif. (Head, university extension) 10/67  
28-1 Scintillation and Semiconductor Counters  AEC-IEEE  Washington, D. C. (G. A. Morton) [11/7] 8/67

## MARCH 1968

- 4-7 Neutron Cross Section and Technology  APS-AEC-NBS  Washington, D. C. (D. T. Goldman) [12/1] 8/67

## JOINT APS-AAPT ANNUAL MEETING CHICAGO 1968

**LOW COST GROUP FLIGHTS** To save up to 20% of air travel costs for those attending the meeting, special flights have been reserved on a group basis, (requiring 25 or more people). Those wishing to take advantage of this are urged to clip out this notice and mail it with their check as soon as possible. Reservations will be accepted on a first-come basis.

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**LOS ANGELES**—\$177.24 (incl. tax)  
1/28 American Airlines 2/1  
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10:35 PM Arr. Chicago Lv. 6:10 PM

**SAN FRANCISCO**—\$177.24 (incl. tax)  
1/28 American Airlines 2/1  
4:30 PM Lv. San Francisco Arr. 8:48 PM  
10:09 PM Arr. Chicago Lv. 6:35 PM

**SEATTLE**—\$221.45 (incl. tax)\*  
1/28 United Airlines 2/1  
3:30 PM Lv. Seattle Arr. 7:15 PM  
9:00 PM Arr. Chicago Lv. 5:15 PM

**ATLANTA**—\$84.74 (incl. tax)\*  
1/28 Delta Airlines 2/1  
5:55 PM Lv. Atlanta Arr. 7:30 PM  
6:34 PM Arr. Chicago Lv. 4:55 PM

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5:40 PM Lv. National Airport Arr. 8:45 PM  
6:38 PM Arr. Chicago Lv. 6:05 PM

**HOUSTON**—\$134.19 (incl. tax)\*  
1/28 Braniff 2/1  
2:30 PM Lv. Houston Arr. 8:05 PM  
4:40 PM Arr. Chicago Lv. 5:45 PM

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1/28 American Airlines 2/1  
5:00 PM Lv. Dallas Arr. 9:07 PM  
7:02 PM Arr. Chicago Lv. 7:00 PM

**PHILADELPHIA**—\$68.46 (incl. tax)  
1/28 United Airlines 2/1  
6:30 PM Lv. Philadelphia Arr. 9:34 PM  
7:29 PM Arr. Chicago Lv. 6:50 PM

**BOSTON**—\$85.47 (incl. tax)  
1/28 American Airlines 2/1  
5:00 PM Lv. Boston Arr. 8:35 PM  
6:29 PM Arr. Chicago Lv. 5:35 PM

**NEW YORK**—\$73.50 (incl. tax)  
1/28 American Airlines 2/1  
4:00 PM Lv. La Guardia Arr. 8:49 PM  
5:15 PM Arr. Chicago Lv. 6:00 PM

**NEW YORK**—\$73.50 (incl. tax)  
1/28 American Airlines 2/1  
5:00 PM Lv. La Guardia Arr. 10:16 PM  
6:15 PM Arr. Chicago Lv. 7:30 PM

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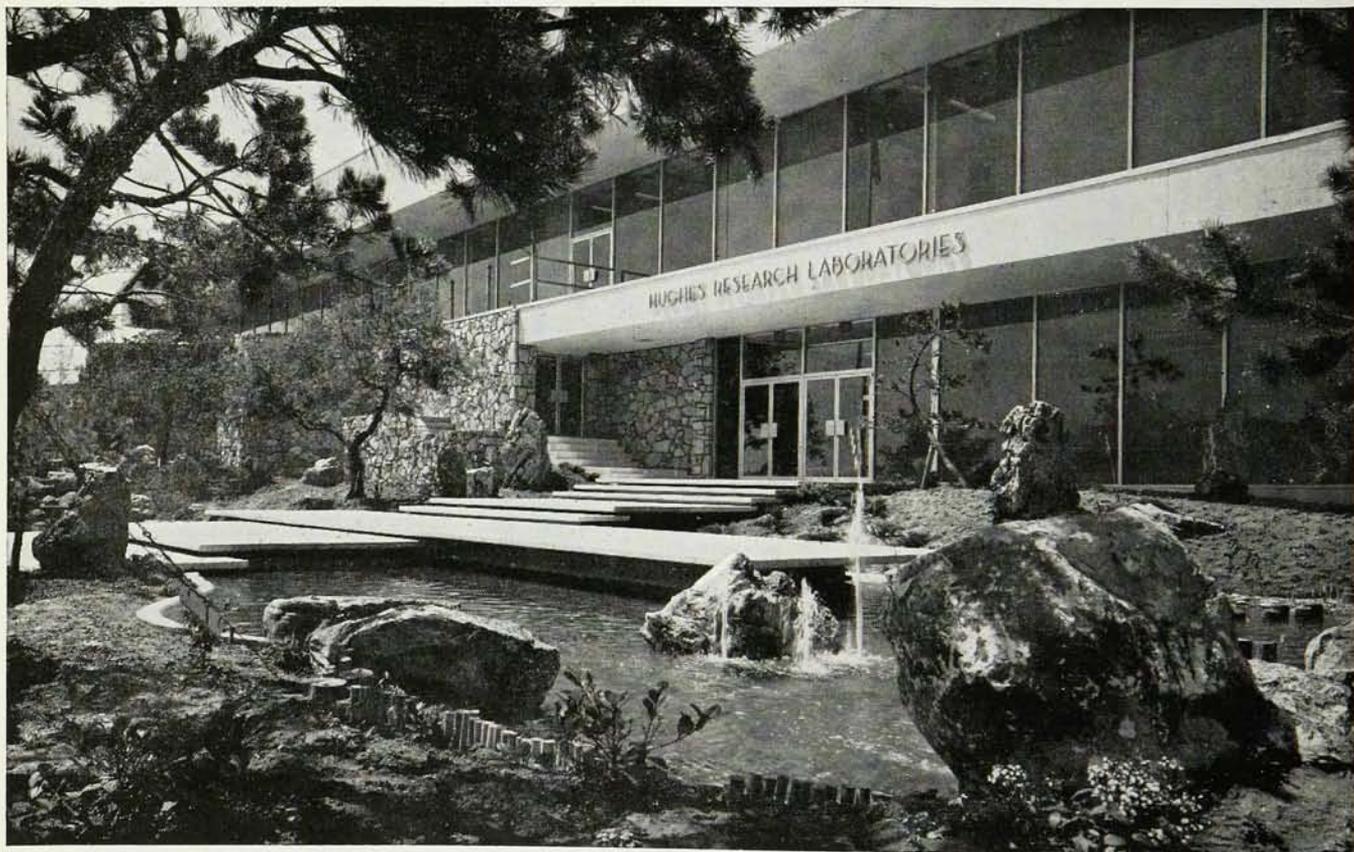
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5-8 Nuclear Electronics and Radio-protection □ CENTRE DE PHYSIQUE ATOMIQUE ET NUCLÉAIRE DE LA FACULTE DES SCIENCES □ Toulouse, France (*Faculté des Science*) [10/15] 10/67

12-15 □ OSA □ Washington, D. C. (*M. E. Waga*) 9/67

18-20 • Physical Electronics □ APS □ U. of Minnesota, Minneapolis (*W. T. Peria, Electrical Engineering Dept., U. of Minnesota, Minneapolis, Minn. 55455*) 12/67

Topics: solid surfaces, electron emission of all types, conversion of heat to electricity, sputtering, surface structure, experimental and theoretical techniques applicable to these problems, including vacuum physics and instrumentation.

18-21 □ APS □ Berkeley, Calif. (*W. Whaling*) 9/67

18-21 ♦ High-Polymer Physics □ APS □ Berkeley, Calif. (*H. D. Keith, Bell Telephone Laboratories, Murray Hill, N. J. 07971*) [12/26] 12/67

19, 20 • Ocean Sciences and Engineering of the Atlantic Shelf Philadelphia, Pa. (*T. Evans, Management Organization, Inc., Sheraton Park Hotel, 2660 Connecticut Ave., N.W., Wash., D. C. 20008*) [11/1] 12/67

21-23 • Microwave Power □ INTERNATIONAL MICROWAVE POWER INSTITUTE □ Boston (*1968 Symposium on Microwave Power, Box 342 Weston, Mass. 02193*) [1/1] 12/67

25-28 • Organic Solid State Chemistry □ BROOKHAVEN NATIONAL LABORATORY □ (*G. Adler, Brookhaven National Laboratory, Upton, N. Y. 11973*) 12/67

This symposium will cover structural problems, real crystals, primary radiation and photochemical processes in organic solids, energy levels and energy transfer in solids, generation and study of intermediates in solid state reactions, reactions involving little or no mass transfer, analysis of solid-state reactions and solid state polymerization.

28-30 Low Luminosity Stars □ NATIONAL SCIENCE FOUNDATION-AAS □ U. of Virginia, Charlottesville, Va. (*S. Kumar*) 10/67

APRIL 1968

1-3 Heavy Particle Collisions □ IPPS □ Belfast, Ireland (*Meetings Officer, IPPS*) [9/29] 9/67

2-3 Semimetals and Narrow Gap Semiconductors □ IPPS □ Durham, England (*Meetings Officer, IPPS*) [1/5] 9/67

2-4 □ AAS □ Charlottesville, Va. (*P. M. Routly*) 9/67

3-5 Magnetism □ IEEE □ Washington, D. C. (*J. M. Lommel*) [12/15] 9/67

3-5 Engineering Aspects of Magneto-hydrodynamics □ U. OF TENNESSEE SPACE INSTITUTE □ Tullahoma, Tenn. (*L. E. Ring*) [11/27] 11/67

17-19 Structure Analysis □ IPPS □ U. of York; York, England (*Meetings Officer*) IPPS [1/5] 10/67

22-24 Thin Films □ IPPS □ U. of Southampton, England (*Meetings Officer*) [1/19] 10/67

22-24 Frequency Control □ US ARMY ELECTRONICS COMMAND □ Atlantic City, N. J. (*M. F. Timm*) [12/15] 10/67

22-25 □ APS □ Washington, D. C. (*W. W. Havens Jr*) 9/67

MAY 1968

1-3 • Vacuum Science and Technology □ AMERICAN VACUUM SOCIETY □ Los Angeles (*G. R. Neff, Ardel Corp., 619 Justin Ave., Glendale, Calif. 91201*) [12/1] 12/67

This first annual symposium will be concerned with vacuum science, thin film and space technology.

5-9 • Optical and Microwave Lasers □ ELECTROCHEMICAL SOCIETY □ Boston (*Electrochemical Society, 30 E. 42 St., New York, N. Y. 10017*)

Discussions include optical properties of thin dielectric films, theory of dielectric behavior, luminescent and laser materials, preparation and properties of single crystals for acoustic optical and microwave applications.

8-10 Electronic Components □ IEEE-ELECTRONIC INDUSTRIES ASSOCIATION □ Wash., D. C. (*F. M. Collins*) [10/10] 10/67

8-11 Technical Communications □ SOCIETY OF TECHNICAL WRITERS AND PUBLISHERS □ Los Angeles (*B. P. Sauer*) 11/67

12-18 Universal Aspects of Atmospheric Electricity □ AFCRL □ Tokyo (*Capt. J. H. Shock*) 10/67

13-17 Applied Spectroscopy □ SOCIETY FOR APPLIED SPECTROSCOPY □ Chicago (*E. Lanterman*) [1/15] 10/67

14 • Philosophy of Science □ BOSTON U. □ Boston (*R. S. Cohen, Physics Dept., Boston U., Boston, Mass. 02215*) 12/67

Topic: Mathematics in the resolution of philosophical problems in fourteenth century mechanics.

14-17 Quantum Electronics □ JOINT COUNCIL ON QUANTUM ELECTRONICS □ Miami, Fla. (*R. W. Terhune*) [1/8] 10/67

20-24 • Neutron Inelastic Scattering □ IAEA □ Copenhagen, Denmark (*J. Dolnicar, Division of Research and Laboratories, International Atomic Energy Agency, Karntherring 11, Vienna I, Austria*) [12/20] 12/67

Topics: dynamics of solids and liquids, magnetic systems, molecular dynamics, experimental methods.

27-31 Thermionic Electrical Power Generation □ EUROPEAN NUCLEAR ENERGY AGENCY □ Stresa, Italy (*European Nuclear Energy Agency*) [12/15] 10/67

# An elliptical parking orbit at Venus?

Weight savings are possible for a manned mission to Venus if an elliptical parking orbit rather than a circular one is used for observing the planet.

This and other means of minimizing the weight requirements for manned missions to Mars and Venus are under consideration by Bellcomm. These studies are part of our work for NASA's office of Manned Space Flight.

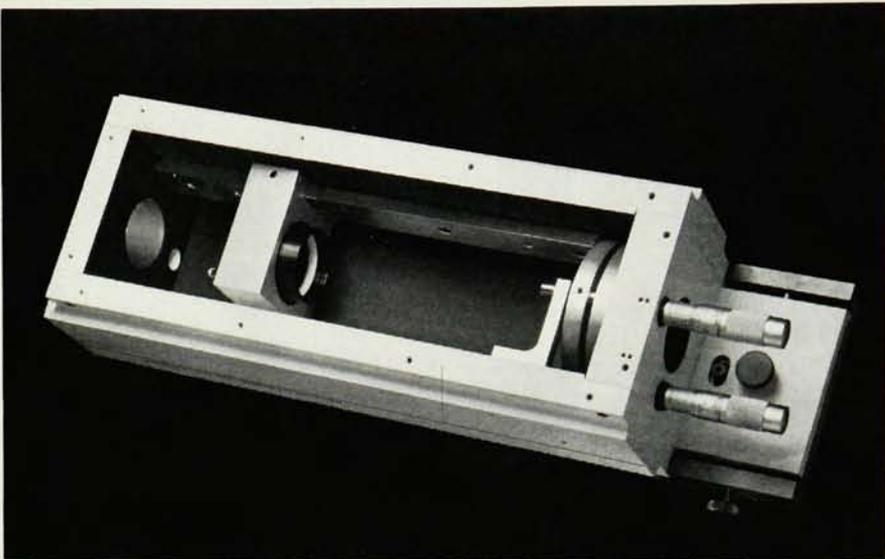
Bellcomm offers rewarding employment opportunities for qualified specialists in all technical disciplines bearing on analysis of planetary missions—flight mechanics, guidance and navigation, communications, bioastronautics, propulsion and power systems. Bellcomm also seeks aeronautical and mechanical engineers broadly experienced in vehicle systems or mission planning.

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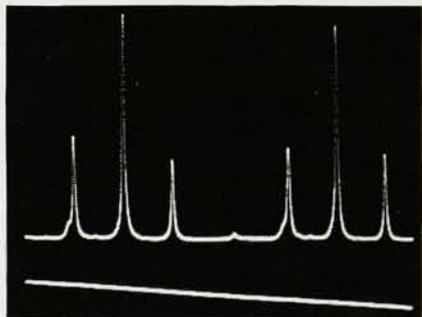
# Some interesting facts about Resonant Cavity Interferometers



The Lansing 30.205 Scanning Resonant Cavity Interferometer (RCI) with top plate removed. The classical, plane-parallel mirror, fixed-space Fabry-Perot interferometer is a specialized configuration of an RCI.

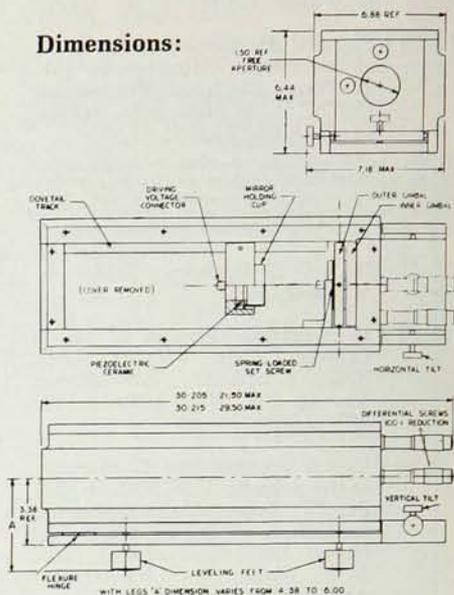


Operated with fixed spacing, 6328A laser modes are resolved in this classical image display.



Operated with piezoelectric scanning, the same modes are resolved in an oscilloscope display. Trace shows intensity vs. frequency for two orders of RCI scan.

## Dimensions:



## Other products we manufacture:

- Angular orientation devices
- Translation stages
- Differential screw devices
- Piezoelectric translators
- High voltage ramp generator
- Vibration-isolated research bench

## Price and availability:

30.205 Scanning RCI	\$1,085.00
30.215	1,185.00
80.010 High Voltage Ramp Generator	850.00
10.003 Adaptor Set (specify mirror diameter and thickness)	12.50

Shipped from stock, FOB Ithaca, N.Y.

## Specifications:

	30.205	30.215
Maximum mirror separation	30 cm	50 cm
Minimum mirror separation	1 mm	1 mm
Piezoelectric scanning range (-1600 volts applied)	1.2μ	1.2μ
Maximum free aperture	1.50"	1.50"
Maximum OD of mirrors	2.00"	2.00"

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Analyzing the spectral content of light beams is a job for resonant cavity interferometers.

You can operate an RCI several different ways, depending upon the job to be done.

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To obtain the highest resolving power for laser mode-analysis, mode matched operation with spherical mirrors permits state-of-the-art performance.

# Lansing Research Corporation

- 3-6 **Atomic Physics**  NEW YORK U   
New York (V. W. Hughes) (by invitation) 11/67
- 10-13 **Vacuum Metallurgy**  AMERICAN VACUUM SOCIETY  Beverly Hills, Calif. (L. W. Sink) 11/67
- 16-20  HEALTH PHYSICS SOCIETY  Denver, Colo. (W. R. Hendee) [2/1] 10/67
- 17-19  APS  Los Alamos, N. M. (W. Whaling) 10/67
- 25-28 • **Precision Electromagnetic Measurements**  IEEE-NBS  Boulder, Colo. (G. Goulette, 328 University Memorial Center, U. of Colorado, Boulder, Colo. 80302) [2/12] 12/67

The scope of the conference will cover precision measurements at frequencies ranging from dc through microwaves and lasers and the measurement of time and frequency. Pulse-waveform measurements and automated precision measurements used in large-scale electronic systems such as steerable arrays will be covered.

JULY 1968

- 1-31 • **Theoretical Biology and Biophysics**  AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES  Northwestern Michigan College, Traverse City, Mich. (H. J. Morowitz, Molecular Biophysics Dept., Box 2166 Yale Station, New Haven, Conn. 06520) [2/15] 12/67

Topics will be applications of thermodynamics and statistical mechanics to biology. Lectures, seminars and research projects in theoretical biology will take place.

- 15-18 **Electrical Contact Phenomena**  IPPS  University College of Swansea, Wales (Meetings Officer, IPPS) [2/1] 10/67
- 15-19 • **Crystal Growth**  AFCRL  Birmingham, England (C. S. Sahagian, CRWB, AFCRL, L. G. Hanscom Field, Bedford, Mass. 01730) 12/67
- 15 ♦ (through Sept. 8) **Nuclear Physics**  U. OF GRENOBLE  Les Houches, Haute-Savoie. (C. Dewitt)  [3/1] 12/67
- 22-26 **Rarefied Gas Dynamics**  MASSACHUSETTS INSTITUTE OF TECHNOLOGY  Cambridge, Mass. (Symposium secretary Rm. 37-412 aeronautics and astronautics dept., Massachusetts Institute of Technology) [12/31] 11/67
- 23-29 • **Physics of Semiconductors**  IUPAP  Leningrad, USSR (A. R. Regel, Academy of Sciences, USSR, Leningrad, D-187 USSR) [2/1] 12/67

This conference will be concerned with theoretical and experimental studies of the physics of semiconductors. Topics will be band theory and band structure, transport phenomena, electronic states of a nonideal crystal, plasma effects and electrical instability in semiconductors, optical properties of semiconductors, recombination and luminescence phenomena, photoelectric effects.

- 24-30 • **Magnetohydrodynamic Produc-**

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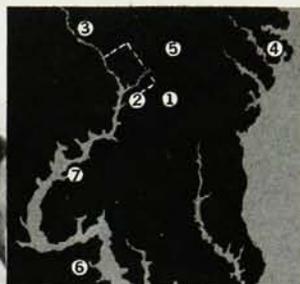
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### 6. Naval Weapons Laboratory, Dahlgren, Virginia 22448

—engaged, first, in studying and analyzing advanced weapons systems, ballistics and astronautics through basic and applied research in mathematics, physics and engineering . . . and, second, achieving maximum competence in various sophisticated DOD projects utilizing the most advanced computer technology and systems.

### 7. Naval Ordnance Station, Indian Head, Maryland 20640

—develops and maintains the Navy's technical competence in missile, gun and rocket propellants. Conducts R&D in chemistry, propellants, propellant ingredients, propellant processing; performs product and production engineering, chemical process development and pilot plant operations in the field of solid and liquid propellants and explosives.

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 Warsaw, Poland (M. V. Tcherni-  
 line, Division of Nuclear Energy  
 and Reactors International  
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 Ring, 11, 1010 Vienna, Austria)  
 [4/2] 12/67

Topics will be physical properties of magneto-  
 hydrodynamic fluids (elementary properties,  
 thermodynamic and chemical equilibrium, degree  
 of ionization, unstable states, scalar and tensor  
 properties of electrical conductivity), studies of  
 magnetohydrodynamic flux and energy conversion  
 procedures, production of alternating current  
 with plasma flux.

**AUGUST 1968**

- 6-15 **Medical Radioisotope Scintigraphy**  IAEA  Salzburg, Austria (G. J. Hine & H. Vetter) [3/1] 11/67
- 7-9 **Ellipsometry**  U. OF NEBRASKA  Lincoln, Neb. (N. M. Bashara) 9/67
- 12-16  ACA  Buffalo, N. Y. (D. Harker) 10/67
- 21-23  AAS  University of Victoria, Victoria, B. C., Canada (G. C. McVittie) 11/67
- 21-23 **Applications of X-Ray Analysis**  DENVER RESEARCH INSTITUTE  U. of Denver, Colo. (J. B. Newkirk) 10/67
- 21-28 **Low Temperature Physics**  U. OF ST ANDREWS  St Andrews, Scotland (D. M. Finlayson) 10/67
- 26-31 **Applied Mechanics**  STANFORD U.  Stanford, Calif. (C. R. Steele) [2/2] 10/67
- 26-30 **Reactivity in Solids**  INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY  Schenectady, N. Y. (R. W. Roberts) 10/67

**SEPTEMBER 1968**

- 10-15 **Magnetic Oxides**  INSTITUTE OF PHYSICS OF THE ACADEMY OF SR ROMANIA  Bucharest, Romania (M. Rosenberg) 10/67
- 16-21  15TH AMPERE COLLOQUIUM  St Martin d'Hères, France (P. Averbuch) 9/67
- 16-18 **Laser Measurements**  INTERNATIONAL SCIENTIFIC RADIO UNION  Warsaw, Poland (S. Hahn) [2/1] 10/67
- 23-27 **Vacancies and Interstitials in Metals**  IUPAP  Jülich, Germany (W. Schilling) [5/15] 11/67

**OCTOBER 1968**

- 8-11  OSA  Pittsburgh, Pa. (M. E. Wargo) [7/8] 11/67

**DECEMBER 1968**

- 16-20 **Relativistic Astrophysics**  SOUTHWEST CENTER FOR ADVANCED STUDIES  Dallas (I. Robinson) 9/67

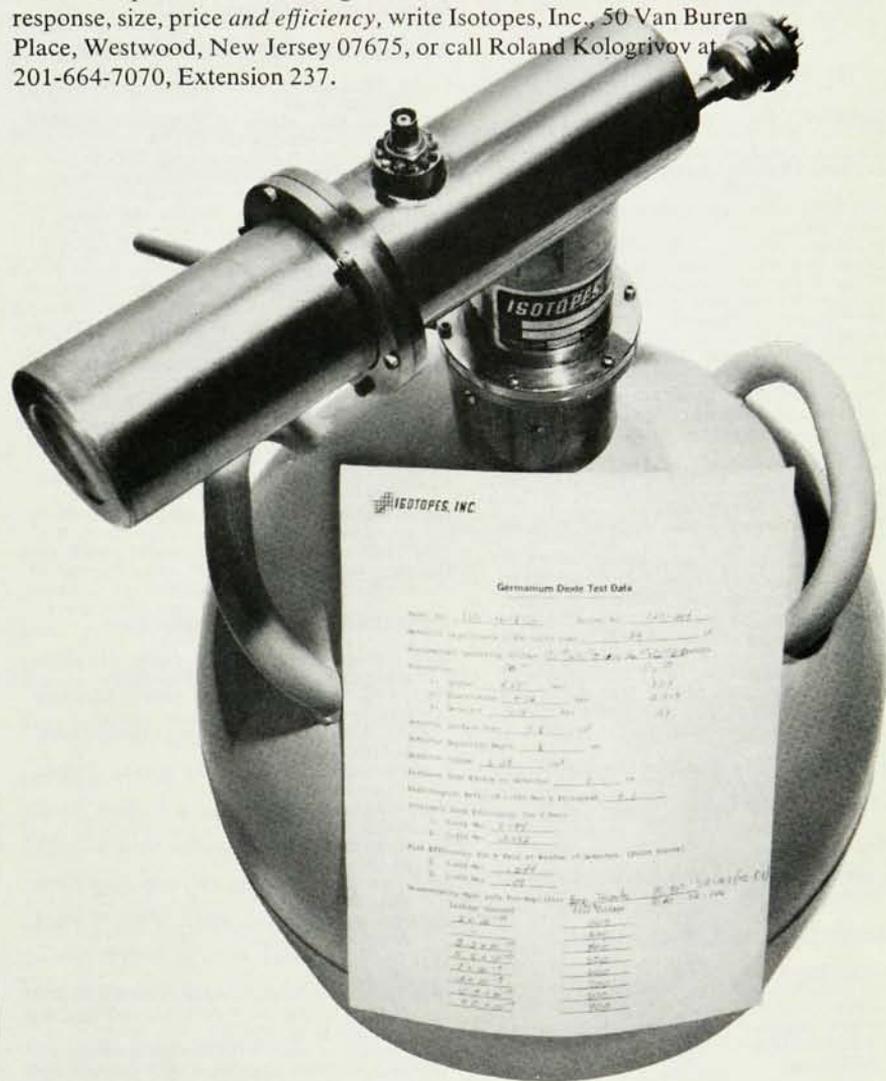
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