

CALENDAR

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
 AFCL—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

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. 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.

NOVEMBER 1968

- 1-3 **Conference on Plasma** ☐ Gatlinburg, Tenn. (D. D. Cowen) 10/68
- 2 • ☐ AAPT MICHIGAN SECTION ☐ Delta College (D. De Graaf, Flint College of University of Michigan, Flint, Michigan) 11/68
- 6, 7 **Precision Photography for Integrated Electronic Circuitry-Tutorial Seminar** ☐ SOCIETY OF PHOTOGRAPHIC SCIENTISTS & ENGINEERS ☐ Palo Alto, Calif. (Soc. of Photographic Scientists & Engineers) 10/68
- 6-8 **Pittsburgh Diffraction Conference** ☐ MELLON INSTITUTE ☐ Pittsburgh, Pa. (S. Diamond) 7/68
- 10-14 • **International Conference on Constructive Uses of Atomic Energy** ☐ ATOMIC INDUSTRIAL FORUM, ANS ☐ Washington, D. C. (Atomic Industrial Forum, 850 Third Ave., New York 10022) 11/68
- The 14th exposition of the nuclear industries will be held simultaneously.
- 10-15 **Winter Meeting** ☐ AMERICAN NUCLEAR SOCIETY ☐ Washington, D. C. (F. Schroeder) 6/68
- 11-13 **Technical Meeting** ☐ SOCIETY OF ENGINEERING SCIENCE ☐ Princeton U. (A. C. Eringen) 10/68

- 11-13 • **Conference on Thermal Properties of Solids at High Temperature** ☐ DEUTSCHE KERAMISCHE GESELLSCHAFT ☐ Baden-Baden, W. Germany (G. Rechenberger, Deutsche Keramische Gesellschaft, D 534 Bad Honnef/Rhein, Postfach 129, W. Germany) 11/68
- 13-16 **Annual Meeting** ☐ PLASMA PHYSICS DIV.-APS ☐ Miami Beach, Fla. (W. B. Ard) 7/68
- 18-21 **Magnetism and Magnetic Materials** ☐ AIP, IEEE ☐ New York (D. T. Teaney) 3/68
- 18-22 **Symposium on Nuclear Desalination** ☐ IAEA ☐ Madrid, Spain (IAEA) 10/68
- 19-21 **Physics in the Metal Forming Industries** ☐ IPPS ☐ Harrogate, Yorkshire England (Meetings Officer, IPPS) 6/68
- 19-22 ☐ ASA ☐ Cleveland, Ohio (J. L. Hunter) 9/68
- 21, 22 **Chemical Kinetics** ☐ U. OF NORTH CAROLINA ☐ Chapel Hill, N. C. (L. Pedersen) 6/68
- 25-27 **Fluid Dynamics** ☐ DIV.-APS ☐ Seattle, Wash. (A. Goldberg) 9/68
- 25-27 **Fall Meeting and Nuclear Physics Div.** ☐ APS ☐ Miami Beach, Fla. (W. W. Havens Jr) 3/68

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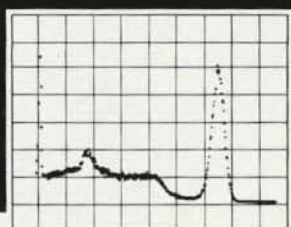
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Gabriel M. Giannini

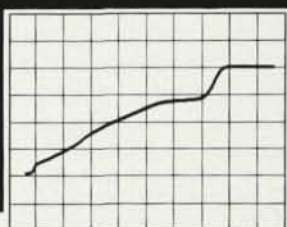
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- 2-4 ☐ AMERICAN GEOPHYSICAL UNION
☐ San Francisco (J. C. Harrison) 2/68

- 2-4 Reliability Physics ☐ IEEE ☐
Washington, D. C. (S. Schwartz)
[11/1] 8/68

- 3 • Materials and Testing at Harwell
☐ NON-DESTRUCTIVE TESTING
CENTRE AT HARWELL, BRITISH
ACOUSTICAL SOCIETY ☐ Harwell
(W. N. Reynolds, *Non-Destructive
Testing Centre, AERE, Harwell,
Didcot, Berkshire*) 11/68

Topics include laser-light scattering ultrasonic holograms, ultrasonic transducers, correlation methods, quality control, helicon waves.

- 4-7 Annual Meeting ☐ AMERICAN
ASSOCIATION OF PHYSICISTS IN
MEDICINE ☐ Chicago (R. O.
Gorson) 6/68

- 11-13 ☐ AAS ☐ Austin, Tex. (P. M.
Routly) 3/68

- 16-20 Relativistic Astrophysics ☐
SOUTHWEST CENTER FOR AD-
VANCED STUDIES ☐ Dallas (I.
Robinson) 9/67

- 18-20 Winter Meeting ☐ APS ☐ San
Diego (W. Whaling) 2/68

- 26-31 Annual Meeting ☐ AMERICAN
ASSOCIATION FOR THE ADVANCE-
MENT OF SCIENCE ☐ Dallas, Tex.
(AAAS) 10/68

JANUARY 1969

- 7-9 • Conference on Solid State Phys-
ics ☐ IPPS ☐ University of Man-
chester (S. F. Edwards, FRS.,
Dept. of Theoretical Physics,
Schuster Laboratory, The Uni-
versity, Manchester 13, England)
11/68

- 11-15 Annual Meeting ☐ S O F R ☐
Williamsburg, Va. (J. G. Brod-
nyan) 6/68

- 13-17 Non-Metallic Crystals ☐ IUPAP
☐ Delhi, India (S. C. Jain) 8/68

- 13-18 Atomic, Molecular and Solid-
State Theory and Quantum
Biology ☐ U. OF FLORIDA, UPP-
SALA U. ☐ Sanibel Island, Fla.
(Winter Institute) 9/68

- 29-31 Health Physics Operational Mon-
itoring ☐ HEALTH PHYSICS SOCI-
ETY ☐ Los Angeles (C. A. Willis)
[1/69] 9/68

FEBRUARY 1969

- 3-6 ♦ Annual Meeting ☐ AAPT-APS ☐
New York (W. W. Havens,
AAPT-Ronald Geballe, U. of
Washington, Seattle) 4/68

- 27-1 Southwest Meeting ☐ APS ☐ St.
Louis, Mo. (R. G. Sachs) 4/68

MARCH 1969

- 5-7 1969 Particle Accelerator Con-
ference ☐ IEEE ☐ Washington,
D. C. (J. A. Martin) [11/8] 10/68

NEW LISTING OF SCHOOLS AND SHORT COURSES

6-10 JANUARY 1969

- Polymer Physics ☐ PHYSICS IN IN-
DUSTRY SUBCOMMITTEE-IPPS, U. OF
MANCHESTER ☐ Manchester Institute
of Science and Technology (Meetings
Officer, IPPS, 47 Belgrave Sq., London
S.W. 1) [11/15]

The aim is to provide a refresher course for polymer scientists working in industry and research establishments.

27-28 MARCH 1969

- Technology of Temperatures Below
20°K ☐ COMMISSION 1-INTERNATIONAL
INSTITUTE OF REFRIGERATION ☐ British
Academy, London (J. Wilks, Clarendon
Lab., Oxford)

This short course is designed to give a survey of practical methods of obtaining and utilizing temperatures in this region.

16-27 JUNE 1969

- Physics of Quantum Electronics ☐
U. OF ARIZONA ☐ Flagstaff, Arizona
(S. F. Jacobs, Optical Science Center,
U. of Arizona, Tucson, Arizona 85721)

The course will cover atomic coherence effects (light scattering, self-induced transparency, theory of laser), nonlinear optical phenomena (picosecond pulses, parametric optics) and statistical properties of radiation.

30 JUNE-23 AUGUST 1969

- Physical Problems in Biology ☐

UNIVERSITÉ DE GRENOBLE ☐ 74 Les
Houches, France (Cécile DeWitt,
Dept. of Physics, U. of North Carolina,
Chapel Hill, N. C. 27514) [3/15]

This summer school will present a review of the main problems where the theoretical and experimental techniques of physics have been extensively applied to biology: biological macromolecules, membranes, sensorial organs, muscles, nerves, use of nuclear magnetic resonance, electron paramagnetic resonance in biological system.

21 JULY-29 AUGUST 1969

- Rencontres in Mathematics and
Physics ☐ BATTTELLE MEMORIAL INSTI-
TUTE ☐ Seattle, Wash. (V. Bargmann,
Princeton U., N. J. 08540 or R. S. Paul,
Battelle Memorial Institute, 4000 N. E.
41 St., Seattle, Wash.)

This summer course will consider group representations in mathematics and physics.

4-12 AUGUST 1969

- Crystallographic Computing ☐ IN-
TERNATIONAL UNION OF CRYSTALLOG-
RAPHY-COMMISSION ON CRYSTALLO-
GRAPHIC COMPUTING ☐ Carleton U.,
Ottawa, Canada (F. R. Ahmed, Na-
tional Research Council of Canada,
Ottawa)

A summer school covering the direct methods of structure determination, least-squares procedures, thermal vibration, absorption and extinction corrections, crystallographic computer systems, Fourier techniques, and organization of data files.

- 6, 7 Acoustical Holography ☐ DOUG-
LAS ADVANCED RESEARCH LAB-
ORATORIES ☐ Huntington Beach,
Calif. (Secretary, 2nd Interna-
tional Symp. Acoust. Holography)
[12/2] 7/68

- 10-13 1969 Physics Exhibition ☐ IPPS
☐ London (Exhibitions Officer)
10/68

- 11-15 ☐ OSA ☐ San Diego, Calif. (M.
E. Wurga) 4/68

- 13-15 Isobaric Spin ☐ APS ☐ Pacific
Grove, Calif.

- 17-19 Physical Electronics ☐ YALE UNI-
VERSITY ☐ New Haven, Conn.
(T. E. Fischer) 9/68

- 17-19 Annual Meeting ☐ SOLAR ENERGY
SOCIETY (F. E. Edlin) 10/68

- 23-29 ☐ ACA ☐ Seattle, Wash.

- 24-26 Chemical, High-Polymer and
Solid-State Physics Div. ☐ APS
☐ Philadelphia, Pa. (W. W.
Havens Jr) 5/68

- 26-28 • Elementary Particles ☐ NUCLEAR
PHYSICS SUBCOMMITTEE, IPPS ☐
Cambridge (Meetings Officer,
IPPS, 47 Belgrave Sq., London
S.W. 1) 11/68

Topics include strong interactions at high energy, symmetry theories, CP violation, sum rules and bootstraps, s-matrix theory, asymptotic behavior at high energy, electromagnetic interactions, and meson and baryon resonances.

APRIL 1969

- 8-11 Inaugural Meeting ☐ EUROPEAN
PHYSICAL SOCIETY ☐ Florence,
Italy, (L. Cohen) 8/68

- 8-11 ☐ ASA ☐ Philadelphia, Pa.

- 15-18 Intermag ☐ IEEE ☐ Amsterdam
(Th. Holtwijk) 9/68

- 15-18 Conference on the Physics of
Liquids ☐ SOLID STATE PHYSICS
SUBCOMMITTEE, IPPS ☐ Norwich,
Norfolk, UK (Meetings Officer)
10/68

- 16-18 Geoscience Electronics Sym-
posium ☐ IEEE ☐ Washington,
D. C. (M. E. Ringenbach) [1/69]
10/68

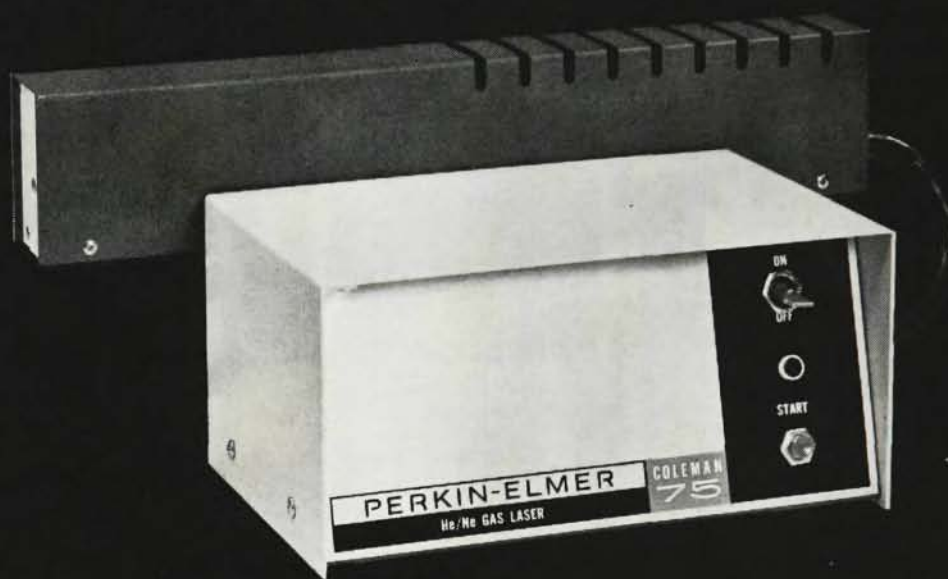
- 21-25 Fundamental Aspects of Dis-
location Theory ☐ NBS ☐ Wash-
ington, D. C. (R. deWit) by in-
vitation only) 8/68

- 21-25 50th Anniversary Meeting ☐
AMERICAN GEOPHYSICAL UNION ☐
Washington, D. C. (Geophysical
Union Headquarters) 8/68

- 21-25 Solid State Chemistry ☐ ARI-
ZONA STATE U. ☐ Scottsdale,
Ariz. (L. Eyring) 8/68

- 28-30 Surface Science, Effusion and
Evaporation ☐ NEW MEXICO SEC-
TION AVS, LOS ALAMOS SCIENTIFIC

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LABORATORY ☐ Los Alamos,
N. M. (C. Winkelman) 8/68

28-1 Spring Meeting and Nuclear
Physics Div. ☐ APS ☐ Washing-
ton, D. C. (W. W. Havens Jr)
5/68

28-2 Thin Films ☐ INTERNATIONAL
CONFERENCE ON THIN FILMS ☐
Boston, Mass. (M. H. Francombe)
[11/29] 6/68

MAY 1969

2 • ☐ ELECTRON AND ATOMIC PHYS-
ICS DIV.—APS ☐ Washington,
D. C. (W. W. Havens Jr, APS,
335 E. 45 St., New York 10017)
11/68

4-9 Spring Meeting ☐ ELECTRO-
CHEMICAL SOCIETY ☐ New York
(Electrochemical Society) 8/68

7-9 Annual Symposium ☐ AVS-
SOUTHWEST SECTION (R. P. Fed-
chenko) 10/68

14-17 • ☐ ISOTOPES AND RADIATION DIV.
—ANS ☐ San Juan, P. R. (O. J.
Du Temple, Executive Secretary,
ANS, 244 E. Ogden Ave., Hins-
dale, Ill. 60521) 11/68

19-21 Offshore Technology ☐ AMERI-
CAN INSTITUTE OF MINING,
METALLURGICAL AND PETROLEUM
ENGINEERS ☐ Houston, Tex. (C.
Karlsen, 8/68

26-28 Laser Engineering ☐ IEEE ☐
Washington, D. C. (F. R. Arams)
[1/17] 8/16

27-30 Annual Meeting ☐ SOCIÉTÉ DE
CHIMIE PHYSIQUE ☐ Paris (Sec-
rétaire Général de la Société de
Chimie physique) 10/68

JUNE 1969

8-12 Annual Meeting ☐ HEALTH PHYS-
ICS SOCIETY ☐ Pittsburgh, Pa.
(R. F. Cowing) 10/68

16-19 • Annual Meeting ☐ ANS ☐ Seat-
tle, Wash. (O. J. Du Temple,
Executive Secretary, ANS, 244
E. Ogden Ave., Hinsdale, Ill.
60521) 11/68

18-20 Summer East Meeting ☐ APS ☐
Rochester, N. Y. (W. W. Havens
Jr) 6/68

23-25 Shock Tubes ☐ APS ☐ Toronto

23-25 Summer Meeting ☐ AAPT ☐ St.
Louis, Mo.

23-27 • Annual Meeting ☐ SOCIETY OF
NUCLEAR MEDICINE ☐ New Or-
leans, La. (S. N. Turiel, Director,
Professional Education, Nuclear
Chicago Corp., 333 E. Howard
St., Des Plaines, Ill. 60018) 11/68

23-27 • Conference on Plasma Physics
and Controlled Fusion ☐ FOM-
INSTITUTE FOR PLASMA PHYSICS ☐
Utrecht, Netherlands (FOM-In-
stitute for Plasma Physics, Rijn-

huizen, Postbus 7, Jutphaas,
Netherlands) 11/68

JULY 1969

14-18 Atomic Absorption Spectroscopy
☐ IPPS ☐ Sheffield, England
(AAS Conference Secretary) 8/68

14-18 • Conference on Physics and
Chemistry of Fission ☐ IAEA ☐
(L. Agnew, IAEA, Vienna) 11/68

AUGUST 1969

11-14 • Symposium on Electron and Nu-
clear Magnetic Resonance ☐
AUSTRALIAN ACADEMY OF SCIENCE
☐ Clayton, Victoria, Australia
(Executive Secretary, Australian
Academy of Science, Gordon St.,
Canberra City, A.C.T., Australia
2601) 11/68

Topics: nuclear magnetic resonance (high res-
olution, wide-line, and spin echo), electron spin
resonance of solids, liquids, and gases, pure
quadrupole resonance, other forms of magnetic
resonance such as ferromagnetic resonance, and
cyclotron resonance.

11-15 Medical Physics ☐ US NATIONAL
COMMITTEE FOR MEDICAL PHYS-
ICS, INTERNATIONAL ORGANIZA-
TION FOR MEDICAL PHYSICS ☐
Boston (E. W. Webster) 8/68

13-21 International Congress ☐ INTER-
NATIONAL UNION OF CRYSTALLOG-
RAPHY ☐ Stony Brook, N. Y. (In-
ternational Union of Crystallog-
raphy) [6/1] 7/68

25-30 • Conference on Properties of Nu-
clear States ☐ University of
Montreal (G. T. Ewan, Con-
ference Secretary, Chalk River
Nuclear Laboratories, Canada)
11/68

26-28 • Computerized Electronics ☐
CORNELL UNIVERSITY ☐ Ithaca,
N. Y. (H. J. Carlin, Phillips Hall,
Cornell U. 14850) 11/68

Topics focus on algorithmic techniques which
simulate a complex system, physical device, or
experiment, to yield flexible computer programs
which can be easily employed on an everyday
basis.

SEPTEMBER 1969

2-4 Summer West Meeting ☐ APS
☐ Honolulu

24-26 • Conference on Nuclear Structure
and Elementary Particle Physics
☐ NUCLEAR PHYSICS SUBCOM-
MITTEE, IPPS ☐ Brighton, UK
(Meetings Officer, IPPS, 47 Bel-
grave Sq., London, S. W. 1)
11/68

OCTOBER 1969

5-10 Fall Meeting ☐ ELECTROCHEMI-
CAL SOCIETY ☐ Detroit (Electro-
chemical Society) 8/68

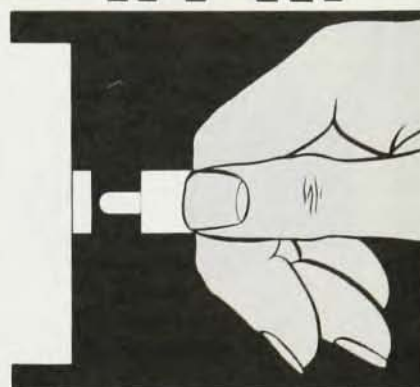
19-21 ☐ S O F R ☐ St. Paul, Minn.

21-24 ☐ OSA ☐ Chicago

29-31 Gaseous Electronics ☐ APS ☐
Gatlinburg, Tenn.

29-31 • Nuclear Science Symposium and

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Manuscripts and correspondence relating to editorial content of the journals should be sent to the Managing Editor, The Institute of Physics and The Physical Society, 1 Lowther Gardens, Prince Consort Road, London SW7, England.

Exhibition ☐ GROUP ON NUCLEAR SCIENCE—IEEE ☐ San Francisco (Technical Conf. Services, IEEE, 345 E. 47 St., New York 10017) 11/68

NOVEMBER 1969

4-7 **National Meeting** ☐ ASA ☐ San Diego, Calif.

DECEMBER 1969

17-19 ☐ APS ☐ Los Angeles, Calif.

JANUARY 1970

26-29 **Annual Meeting** ☐ APS-AAPT ☐ Chicago

FEBRUARY 1970

2-7 • **Conference on Nuclear Data for Reactions** ☐ IAEA (L. Agnew, IAEA, Vienna) 11/68

MARCH 1970

23-26 ☐ APS ☐ Dallas, Tex.

APRIL 1970

7-10 • ☐ OSA ☐ Philadelphia, Pa.

21-24 ☐ ASA ☐ Atlantic City, N. J.

27-30 ☐ APS ☐ Washington, D. C.

JUNE 1970

18-20 ☐ AAPT ☐ Laramie, Wyo.

22-24 • ☐ APS ☐ Manitoba, Canada

14-18 • **Annual Meeting** ☐ ANS ☐ Houston, Tex. (O. J. Du Temple, Executive Secretary, ANS, 244 E. Ogden Ave., Hinsdale, Ill. 60521) 11/68

NOVEMBER 1970

3-6 ☐ ASA ☐ Houston, Tex.

FEBRUARY 1971

1-4 ☐ APS-AAPT ☐ New York

APRIL 1971

26-29 ☐ APS ☐ Washington, D. C.

JUNE 1971

17-19 ☐ AAPT ☐ Beloit, Wisc.

JANUARY 1973

29-1 ☐ APS-AAPT ☐ New York ☐



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User reported in July '67 'Review of Scientific Instruments' that "we have selected a triode amplifier rather than a TWT or klystron because of its inherently better phase stability and smaller sensitivity to plate voltage variation."

At Harvard University: A 10X solid state multiplier with a step recovery diode was produced by MCL in October, 1967 and placed in service. Its characteristics were as follows:

Output Frequency: 1450 MHz

Power Output: 400 MW

Power Input: 2.0 Watts

Efficiency Rating: 20%

This unit has given more than satisfactory service since it was installed last year, according to the user.

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MICROWAVE CAVITY Laboratories, Inc.



10 North Beach Avenue
La Grange, Illinois 60525
Phone: (312)—354-4350
Western Union Telex: 25-3608