

CALENDAR

This is a complete calendar. It lists all physics-related meetings known to us. For the next two months we will publish only new information (partial calendar); in the third month (July) we will again publish a complete calendar as far into the future as we have information. During months with a partial calendar, readers can add new entries to their last 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

APRIL 1970

1-3 **X-ray Analysis—Past, Present and Future** ☐ IPPS, INTERNATIONAL UNION OF CRYSTALLOGRAPHY ☐ Royal Institution, London 11/69

1-4 **Thermodynamics** ☐ IPPS, IUPAP, IUPAC ☐ University College, Cardiff 7/69

2, 3 **Applications of High-voltage Electron Microscopy** ☐ IPPS, ROYAL MICROSCOPICAL SOCIETY, ATOMIC ENERGY RESEARCH ESTABLISHMENT ☐ AERE, Harwell 11/69

3, 4 **Midwest Theory Conference** ☐ UNIV. OF NOTRE DAME ☐ Notre Dame, Indiana 12/69

5, 6 **Medical Acoustics** ☐ BRITISH ACOUSTICAL SOCIETY ☐ Dundee, Scotland 1/70

5-9 **Cybernetics** ☐ IEEE, NACHRICHTENTECHNISCHE GESELLSCHAFT IM VDE, ELEKTROTECHNISCHER VEREIN BERLIN IM VDE, ☐ Berlin (*Elektrotechnischer Verein Berlin im VDE, Bismarckstrasse 33, D-1 Berlin 12, Germany*) 3/70

6-8 **Resonance in Conducting Mate-**

rials ☐ UNIV. OF WARWICK ☐ Univ. of Warwick, Coventry, Warwickshire, UK 12/69

6-8 **Thin Films** ☐ IPPS THIN FILMS AND SURFACES GROUP ☐ Reading, UK 1/70

6-9 **Experimental Thermodynamics** ☐ London 1/70

6-11 **Nuclear Physics and High-Energy Physics** ☐ NETHERLANDS PHYSICAL SOCIETY ☐ Utrecht, Netherlands 2/70

7, 8 **Disaster Hazards** ☐ COMBUSTION INSTITUTE ☐ Houston 2/70

7-9 **Nuclear Physics** ☐ IPPS ☐ Guildford, Surrey, UK 7/69

7-10 **Thermophysical Properties of Solids at High Temperatures** ☐ IPPS SOLID STATE PHYSICS SUBCOMMITTEE, BRITISH CERAMIC SOCIETY, SOCIETY OF CHEMICAL INDUSTRY ☐ Risley, Warrington 8/69

7-10 ☐ OSA ☐ Philadelphia, Pa.

9, 10 • **Aerospace Materials** ☐ AMERICAN INST. OF MECHANICAL ENGINEERS ☐ Schenectady, N. Y. (*Dr H. Posen, Hq AFCRL (CRWD)*)

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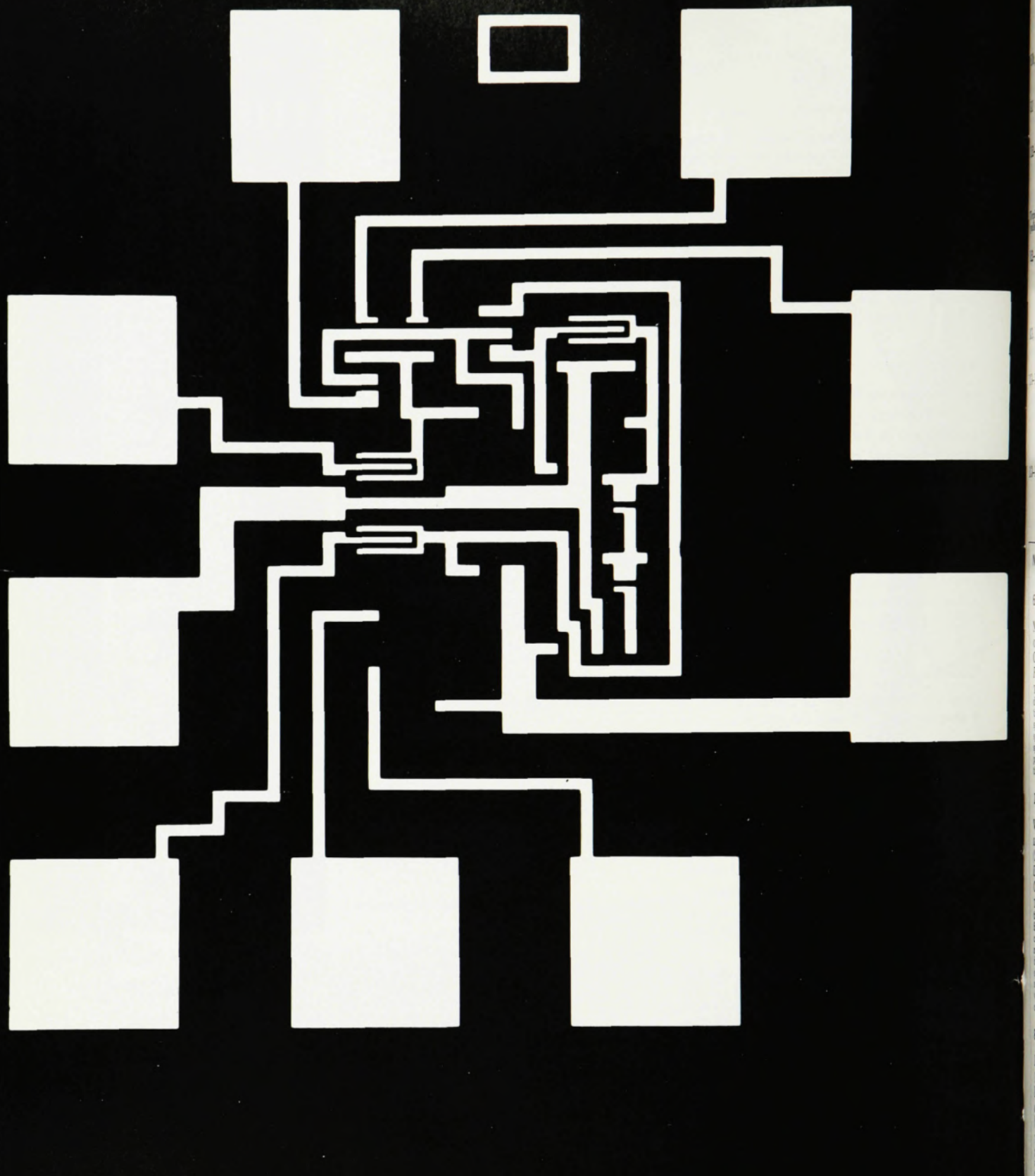
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Berkeley, Calif. 94710

Phone: (415) 527-1121



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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

- Stop 30, L. G. Hanscom Field, Bedford, Mass. 01730) 4/70
- 10, 11 □ AAPT □ Williamsport, Pa. 3/70
- 11 □ AAPT MICHIGAN SECTION □ Jackson Community College 8/69
- 12-14 • **Institute of Environmental Sciences** □ Boston □ (IES, 940 East Northwest Highway, Mt. Prospect, Illinois 60056) 4/70
- Topics: Noise, air, water and light and thermal pollution, ways to create improvements.
- 12-16 **The Environmental Challenge of the Seventies** □ INSTITUTE OF ENVIRONMENTAL SCIENCES □ Boston, Mass. 10/69
- 13, 14 **Polymer Rheology** □ UNIV. OF WISCONSIN □ Madison 3/70
- 13-15 **Very Long Baseline Interferometry** □ INTERNATIONAL SCIENTIFIC RADIO UNION, NATIONAL RADIO ASTRONOMY OBSERVATORY □ Charlottesville, Va. 1/70
- 13-16 **Atomic and Molecular Physics** □ IPPS □ London 2/70

- 14-17 **Geoscience Electronics** □ IEEE-GEOSCIENCE ELECTRONICS GROUP □ Washington, D. C. 10/69
- 15-17 **Defects in Semiconductors** □ IPPS □ Reading, UK 3/70
- 15-17 **Polymer Solutions** □ FARADAY SOCIETY □ Manchester 1/70
- 16 **Electrons in Liquid Metal and Other Disorganized Materials** □ ROYAL SOCIETY □ London 1/70
- 17 • **Plasma Physics and Fusion** □ N.Y. ACAD. SCI. □ New York, N.Y. (J. Lebowitz, Belfer Graduate School of Science, Amsterdam Ave., N.Y., N.Y. 10033) 4/70
- 18 □ AAPT □ Sacramento 3/70
- 19-22 **Rare Earth Research** □ 8TH RARE EARTH CONFERENCE COMM. □ Reno, Nev. 2/70
- 20-22 **Reactor Analysis** □ DEUTSCHES ATOMFORUM □ Berlin 2/70
- 20-24 □ AMERICAN GEOPHYS. UNION, NATL. ACAD. SCI., NATL. RES. COUNCIL □ Wash., D. C. 3/70
- 21-24 **Magnetics** □ MAGNETICS GROUP,

- IEEE □ Washington, D. C. 8/69
- 21-24 □ ASA □ Atlantic City, N. J.
- 22-24 **Southwestern IEEE Conference** □ SOUTHWESTERN IEEE CONFERENCE STEERING COMMITTEE □ Dallas 11/69
- 22-24 • **Surface Science** □ AVS, SANDIA LABS □ Albuquerque, New Mexico (L. C. Beavis, P.O. Box 11451, Albuquerque, New Mexico 87544) 4/70
- 22-24 • **Structural Dynamics, and Materials** □ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS □ Denver, Colo. (AIAA, 1290 Sixth Ave., N.Y., N.Y. 10019) 4/70
- 24-27 • □ NMR □ Pittsburgh, Pa. (J. M. Anderson, Dept. of Chemistry, Bryn Mawr College, Bryn Mawr, Pa. 19010) 4/70
- Topics: Biochemical applications, superconducting magnets, Fourier transform methods, oriented molecules, wide-line techniques and quadrupole effects.
- 25 AAPT □ Ames, Iowa 2/70
- 27-29 **Frequency Control** □ ELECTRONIC COMPONENTS LAB., US

NEW LISTING OF SHORT COURSES AND SCHOOLS

6-10 APRIL

Nuclear Magnetic Resonance □ UNIV. OF FLA. □ (W. Brey, Jr, Dept. of Chemistry, Univ. of Fla., Gainesville, Fla. 32601)

Topics: Analysis of high-resolution spectra; double resonance experiments; relaxation times in high resolution spectroscopy; NMR spectra of radicals; superconducting magnet spectrometers; rate processes; techniques for spectroscopy of other nuclei; dynamic nuclear polarization; molecular conformation in relation to NMR parameters.

13-15 APRIL

Vacuum Technology Seminar □ VARIAN VACUUM DIV. □ Palo Alto, Calif. (Seminar Registrar, Varian Vacuum Div., 611 Hansen Way, Palo Alto, Calif. 94303)

Topics: Basic principles of sputtering; practical considerations in the deposition of thin films; principles, instrumentation and applications of Auger spectroscopy; new developments in evaporation; system and fixturing design criteria for thin film production; residual gas analysis and automatic data acquisition; theory and function of seven types of vacuum pumps; vacuum materials and fabrication techniques.

8-12 JUNE

Laser-Raman Institute and Workshop □ UNIV. OF MARYLAND □ College Park, Md. (Prof. E. Lippincott, Center of Materials Research, Univ. of Maryland, College Park, Md. 20742)

Topics: Theory of Raman spectroscopy; applications to studies of molecular structure and dynamics in single crystals; polycrystalline and amorphous materials; liquids and gases; correlation with infrared spectra and recent advances in instrumentation and microsampling techniques.

22 JUNE-3 JULY

The Physics of Quantum Electronics □ OPTICAL SCIENCES CENTER, UNIV. OF ARIZONA □ Prescott, Arizona (S. F. Jacobs, Optical Sciences Center, Univ.

of Ariz., Tucson, Ariz. 85721)

Topics: The Lamb dip and its application to ultra-precise spectroscopy; scattering of electromagnetic radiation; coherence and statistics of the radiation field; nonlinear optics; physics of ultrashort pulses; macroscopic quantum phenomena; advances in laser theory; coherence and noise in quantum mechanics; theory of Josephson radiation.

22 JUNE-3 JULY

Industrial Applications of Modern Magnet Technology FRANCIS BITTER NATIONAL MAGNET LAB MIT, Cambridge, Mass. (Director of the Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)

Topics: Magnetism and superconductivity; solenoid design; magnetic circuits; cryogenic engineering; superconducting magnets and their application to practical needs.

22 JUNE-4 JULY

Low Temperature Physics □ TECHNICAL UNIVERSITY OF TWENTE □ Netherlands (W. Huiskamp, Kamerlingh Onnes Lab., Nieuwsteeg 18, Leiden, Netherlands)

Topics: Superconductivity, superfluidity and methods of cooling at very low temperatures.

29 JUNE-1 JULY

Fluid and Plasma Dynamics □ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS □ Los Angeles, Calif. (AIAA 1290 Sixth Ave., New York, N.Y. 10019)

6-17 JULY

Fast Nuclear-Power Reactor Safety □ MIT □ Cambridge, Mass. (Director of Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)

Topics: safety considerations in reactor core design; reactivity effects, fluid flow and heat transfer; mechanical design; containment; engineered safeguards; materials.

13-24 JULY

Water-Cooled Nuclear Reactors □ MIT □ Cambridge, Mass. (Director of Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)

Topics: Startup; reactor operations; safety instrumentation; reactor dynamics and transients; fission-product release and leakage and waste disposal.

27 JULY-7 AUGUST

Modern Characterization Methods for Electronic Materials □ MIT □ Cambridge, Mass. (Director of Summer Session, Room E19-356, MIT, Cambridge, Mass. 02139)

2-14 AUGUST

Physics and Chemistry of Solids Under Pressure □ NATO □ Delft, Netherlands (S. Mitra, University of Rhode Island, Kingston, R.I. 02881)

3-14 AUGUST

Aurora and Airglow □ NATO ADVANCED STUDY INSTITUTE, LOCKHEED PALO ALTO RES. LAB., NATIONAL RES. COUNCIL OF CANADA □ Kingston, Ontario (B. McCormick, Lockheed, Palo Alto Res. Lab., 3251 Hanover St., Palo Alto, Calif. 94304)

Topics: Atmospheric emissions; magnetospheric phenomena related to aurora; observations of aurora; interpretation of airglow in terms of excitation mechanisms; interpretation of aurora; observations of aurora and associated phenomena; observations of aurora and associated phenomena.

24 AUGUST-5 SEPTEMBER

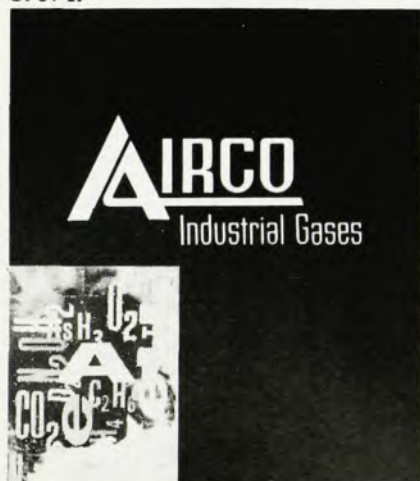
Solid State Physics □ Alta Lake, B.C., Canada (R. R. Haering, Department of Physics, Simon Fraser University, Burnaby 2, B.C., Canada)

Topics: Magnetism in rare earth materials—metals, semiconductors, and insulators.



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APRIL 1970

- ARMY ELECTRONICS COMMAND □
Fort Monmouth, N. J. 12/69
- 27-29 Use of Low Energy Accelerators
□ BOROUGH POLYTECHNIC □
London 1/70
- 27-30 □ APS □ Washington, D. C.
- 28-30 III Annual Scanning Electron
Microscope Symposium □ Chi-
cago, Ill. 9/69

MAY 1970

- 1, 2 Experimental Meson Spectros-
copy □ UNIV. OF PA. □ Phila.,
Pa. 12/69
- 3-6 Static Electricity □ EUROPEAN
FEDERATION OF CHEMICAL ENGI-
NEERING □ Vienna 2/70
- 3-8 Radiation and Man □ II INTER-
NATIONAL CONGRESS ON RADI-
ATION PROTECTION □ Brighton,
UK 9/69
- 3-12 • Diagnostic Plasma □ Suchumi,
USSR (H. I. Leontev, *The Physi-
cal-Technical Institute, Suchumi*,
USSR) 4/70
- 4, 5 • Safety in Research and Develop-
ment □ NATIONAL SAFETY COUN-
CIL, AMERICAN SOCIETY OF
SAFETY ENGINEERS □ Cambridge,
Mass. (ASSE, 20 Beacon Street,
Boston, Mass. 02108) 4/70
- 4-6 • Radio Chemistry □ GERMAN
CHEM. SOC. □ Karlsruhe, Ger-
many (W. Fritsche, 6000 Frank-
furt/Main Postfach 119075)
4/70
- 4-6 Laser Fundamentals and Com-
munications □ Houston, Texas
2/70
- 4-6 • Transducers □ IEEE □ Gaithers-
burg, Md. (IEEE, 345 East 47th
St., N.Y., N.Y. 10017) 4/70
- 4-7 • Aerospace Meteorology □ AMER-
ICAN INSTITUTE OF AERONAUTICS
AND ASTRONAUTICS □ Las Vegas,
Nev. (AIAA, 1290 Sixth Ave.,
N.Y. 10019) 4/70
- 4-7 Ion Implantation in Semiconduc-
tors □ AIR FORCE CAMBRIDGE RE-
SEARCH LABS, AMERICAN ROCK-
WELL SCIENCE CENTER AND
HUGHES RESEARCH LABS □ Thou-
sand Oaks, Calif. 3/70
- 4-9 • Electric Contact Phenomena □
Munich, Germany (*Organisations-
büro ITK, Waisenhausstrasse 4, 8
München 19*) 4/70
- 8, 9 Geophysics of the Earth and
Moon □ APS N.Y. STATE SECTION
□ Schenectady, N. Y. 2/70
- 8, 9 □ APS OHIO SECTION □ Cincin-
nati, Ohio
- 10-15 International Conference on Elec-
tron- and Ion-Beam Science and
Technology □ ELECTROCHEMICAL

SOCIETY □ Los Angeles 11/69

- 11-14 Microwave Theory and Tech-
niques □ IEEE □ Newport Beach,
Calif. 10/69
- 11-15 Mechanical Effects of High Pres-
sure □ INTERNATIONAL COMMIT-
TEE ON HIGH PRESSURE □ Avie-
more, Invernesshire, Scotland
9/69
- 13-15 • Electron Collisions in Atoms and
Ions □ FRENCH PHYS. SOC. □
Brest, France (*Societe Francaise
de Physique, 33, rue Croule-
barbe, F-75 Paris 13e*) 4/70
- 14 Modern Methods of Analyses at
Surfaces □ AMERICAN VACUUM
SOCIETY □ Murray Hill, N. J.
3/70
- 18-22 Materials Symposium □ US AIR-
FORCE, AMERICAN INST. OF AERO-
NAUTICS AND ASTRONAUTICS,
AMERICAN ORDINANCE ASSOC., SO-
CIETY OF AEROSPACE MATERIAL
AND PROCESS ENGINEERS □ Miami
Beach, Fla. 12/69
- 19-20 • Magnet Technology □ Hamburg,
Germany (W. Jentschke, *Notke-
stieg 1, 2 Hamburg 52*) 4/70
- 20, 21 Materials for Optical Systems □
OSA □ Cambridge 3/70
- 24-27 International Conference on Nu-
clear Reactors and Radioisotopes
□ CANADIAN NUCLEAR ASSOCIA-
TION □ Toronto, Can. 11/69
- 25-27 Analysis Instrumentation □ IN-
STRUMENT SOCIETY OF AMERICA □
Pittsburgh 3/70
- 25-30 • □ INTERNATIONAL MEASUREMENT
CONFEDERATION □ Versailles,
France (*IMEKO Secretariat*,
P.O.B. 457, Budapest 5, Hun-
gary) 4/70
- 27-29 Low Energy Accelerators □
BOROUGH POLYTECHNIC □ London
3/70

JUNE 1970

- 1-5 Nondestructive Testing □ Han-
over, Germany 2/70
- 2, 3 Silicon Device Processing □ NBS,
AMERICAN SOCIETY FOR TESTING
AND MATERIALS □ Gaithersburg,
Md. 2/70
- 2-5 21st Mid-America Symposium on
Spectroscopy □ SAS CHICAGO □
Chicago [1/70] 11/69
- 2-5 Precision Electromagnetic Mea-
surements □ NBS INSTITUTE FOR
BASIC STANDARDS, IEEE GROUP ON
INSTRUMENTATION AND MEASURE-
MENT, US COMMISSION 1 OF THE
INTERNATIONAL SCIENTIFIC RADIO
UNION □ Boulder, Colo. [2/70]
10/69
- 8-11 Molecular Crystals □ ORGANIZ-
ING COMMITTEE, 5TH INTERNA-
TIONAL MOLECULAR CRYSTAL SYM-
POSIUM □ Univ. of Pennsyl-
vania 1/70
- 9-12 • □ AAS □ Boulder, Colo. (L.

Fredrick, Leander McCormick
Observatory, Univ. of Virginia,
Box 3818, Charlottesville, Va.
22903) 4/70

- 10-12 • **Bubble Chamber Technology** □
ARGONNE NATL. LAB. □ Argonne,
Ill. (M. Derrick, *High Energy*
Physics Div., Argonne, Ill. 60439)
4/70

- 10-12 **Thermal Expansion of Solids** □
UNIV. ILLINOIS-SANDIA LABS □
Santa Fe, N. Mex. 2/70

- 14-19 **Mass Spectroscopy** □ AMERICAN
SOCIETY FOR MASS SPECTROSCOPY,
AMERICAN SOCIETY FOR TESTING
AND MATERIALS □ San Francisco,
Calif. 2/70

- 15, 16 **Solid-State in Industry—The New
Generation of Industrial Control** □
IEEE GROUP ON INDUSTRIAL
ELECTRONICS AND CONTROL IN-
STRUMENTATION □ Cleveland,
Ohio 10/69

- 15-17 **Applied Superconductivity** □
NBS, UNIV. OF COLO., OFFICE OF
NAVAL RES., AM. INST. PHYS. □
Boulder, Colo. 3/70

- 15-17 **Thermophysics Conference** □
AMERICAN INSTITUTE OF AERO-
NAUTICS AND ASTRONAUTICS □
Los Angeles, Calif. 1/70

- 15-19 **Congress of Applied Mechanics** □
US COMMITTEE FOR THEORETI-
CAL AND APPLIED MECHANICS □
Harvard U. 6/69

- 15-19 **2nd International Conference on
Nuclear Data for Reactors** □
IAEA □ Helsinki, Finland 11/69

- 15-19 **International Vacuum Metallurgy
Conference** □ AMERICAN VAC-
UUM SOCIETY □ Anaheim, Calif.
11/69

- 15-20 • **Identification and Process Param-
eter Estimation** □ Prague,
Czechoslovakia (IFAC *Symposium*
Organizing Committee, Insti-
tute of Information Theory and
Automation, Vyshehradská 49,
Praha 2) 4/70

- 17, 18 **Reacting Turbulent Flows** □
AMERICAN INST. OF AERONAUTICS
AND ASTRONAUTICS □ San Diego
3/70

- 17-19 **Cryogenic Engineering** □ NA-
TIONAL RESEARCH COUNCIL □
Boulder, Colorado 2/70

- 17-19 **Feedback and Dynamic Control
of Plasmas** □ PLASMA PHYSICS
LAB., PRINCETON □ Princeton,
N. J. 1/70

- 18-20 □ AAPT □ Laramie, Wyo.

- 22-24 □ APS □ Manitoba, Canada

- 25-27 • **Advanced Placement in Physics** □
Houston, Texas (S. Baker, *Rice*
University, Houston, Texas
77001) 4/70

- 28-2 □ HEALTH PHYSICS SOCIETY □

Chicago 7/69

- 28-4 **4th International Congress of
Radiation Research** □ Evian,
France 10/69

- 29-1 **Microscopy** □ MC CRONE RE-
SEARCH INSTITUTE □ Chicago, Ill.
2/70

- 29-1 **Thermophysics** □ AMERICAN INST.
OF AERONAUTICS AND ASTRONAU-
TICS □ Los Angeles 3/70

- 29-3 **Rarefied Gas Dynamics** □ Pisa,
Italy 3/70

JULY 1970

- 2 **Electrical Measurement of the
Chemical Properties of Sea
Water** □ Wash., D.C. 2/70

- 6-10 **Microwave Spectroscopy** □ IPPS
□ Bangor, Wales 2/70

- 6-10 **Progress in Safeguards Tech-
niques** □ IAEA, AEC □ Karlsruhe,
Germany 1/70

- 6-11 **Applications of Holography** □
FRENCH OPTICS COMMITTEE.
IUPAP □ Besancon, France 11/69

- 6-12 □ SOCIETY OF NUCLEAR MEDICINE
□ Washington, D. C. 7/69

- 7-9 • **Microscopy** □ IPPS □ Newcastle
upon Tyne, UK (*Meetings Officer,*
47 Belgrave Square, London,
S.W. 1) 4/70

- 7-10 **International Conference on the
Chemistry and Physics of Or-
ganic Scintillators and Liquid
Scintillation Counting** □ UNIVER-
SITY OF CALIF. MEDICAL CENTER,
ARGONNE NATIONAL LABORATORY
□ San Francisco 11/69

- 13-15 □ AMERICAN ASSOCIATION OF
PHYSICISTS IN MEDICINE □ Wash-
ington, D. C. 7/69

- 13-17 **International Seminar on the
History of Physics in Physics
Education** □ IUPAP □ MIT,
Cambridge, Mass. 11/69

- 19-24 • **Cosmic Rays** □ BOLIVIAN GOV-
ERNMENT, BOLIVIAN ACADEMY OF
SCIENCES, UNIVERSIDAD MAYOR DE
SAN ANDRES □ La Paz, Bolivia
(*Sixth Interamerican Seminar on*
Cosmic Rays, Laboratorio de
Fisica Cosmica, Universidad
Mayor de San Andres, La Paz,
Bolivia) 4/70

Topics: origin; composition; x rays and gamma
rays; modulations; extensive air shower; high-
energy interactions; muons and neutrinos.

- 20-24 **Dielectric Materials, Measure-
ments and Applications** □ IEEE,
INSTITUTE OF ELECTRICAL ENGI-
NEERS (UK) □ Univ. of Lancaster,
UK (IEE) 12/69

- 21-24 **Nuclear and Space Radiation
Effects** □ IEEE □ San Diego,
Calif. 12/69

- 21-24 **Atomic Physics** □ IUPAP □ Ox-



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Blakemore, Florida Atlantic University.

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A PHYSICS BOOK ESPECIALLY FOR PEOPLE WHO DON'T WANT TO BE PHYSICISTS . . . BUT DO WANT TO LEARN MORE ABOUT PHYSICS

Modern Physics and Anti-Physics
by Adolph Baker,
Lowell Technological Institute

This is an undergraduate book on modern physics written primarily for non-scientists, but addressing itself to almost anyone in its view of physics in the twentieth century.

The symmetries, relativity and quantum mechanics are treated with emphasis on the processes of reasoning which led to the discoveries.

The viewpoint is that of the humanities student, and the question of why he should be interested in the physics is confronted at every stage.

The style is informal and makes use of dramatic techniques.

In press (1970)

Addison-Wesley
PUBLISHING COMPANY, INC.
Reading, Massachusetts 01867



THE SIGN OF
EXCELLENCE

ford, UK 10/69

- 22-24 • **Electron Probe Analysis** □ ELECTRON PROBE SOCIETY □ New York, N.Y. (H. MacQueen, IBM SDD Endicott Lab, Dept. 662-1, P.O. Box #6, Endicott, N.Y. 13760) 4/70

Topics: Electron microprobe x-ray analysis, techniques, methodology, instrumentation; principles of electron scattering and x-ray generation, quantitative correction procedures, soft x-ray emission and microanalysis, computer applications to microprobe data; kossel techniques, scanning electron microscopy; new methods and instrumentation in microanalysis, applications.

- 29-31 • **Acoustical Holography** □ ASA AND MCDONNELL-DOUGLAS CORP. □ Newport Beach, Calif. (Douglas Advanced Research Labs., McDonnell Douglas Corp., 5251 Bolsa Ave., Huntington Beach, Calif. 92647) 4/70

AUGUST 1970

- 2 **High-Speed Photography** □ SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS □ Denver, Colo. 10/69

- 3-7 **Precision Measurements** □ IUPAP, COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY OF THE INTL. COUNCIL OF SCIENTIFIC UNIONS, COMMITTEE ON FUNDAMENTAL CONSTANTS OF THE US NATIONAL ACADEMY OF SCIENCES AND NATIONAL RESEARCH COUNCIL, NBS, BUREAU INTERNATIONAL DE POIDS ET MESURES □ Gaithersburg, Md. [4/70] 1/70 (Note new date.)

- 5-7 **Applications of X-Ray Analysis** □ UNIV. OF DENVER □ Denver [4/70] 3/70

- 10-14 **White Dwarfs** □ INTERNATIONAL ASTRONOMICAL UNION □ St. Andrews, Scotland 1/70

- 11-15 **Magnetic Recording** □ HUNGARIAN OPTICAL, ACOUSTICAL AND CINEMATOGRAPHIC SOCIETY □ Budapest 12/69

- 12-14 **External Galaxies and Quasistellar Objects** □ INTERNATIONAL ASTRONOMICAL UNION □ Uppsala, Sweden 1/70

- 12-16 □ AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE □ Port Moresby, Papua and New Guinea 11/69

- 16-21 □ ACA □ Ottawa, Canada

- 17-21 **10th International Conference on the Physics of Semiconductors** □ IUPAP □ MIT, Cambridge, Mass. 7/69

- 17-21 **Upper Atmospheric Currents and Electric Fields** □ AIR FORCE CAMBRIDGE RESEARCH LABORATORIES, OFFICE OF NAVAL RESEARCH, ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, NATIONAL CENTER FOR ATMOSPHERIC RESEARCH □ Boulder, Colo. 11/69

- 17-21 • **Angular Correlation in Nuclear**

Disintegration □ IPPS, DUTCH PHYSICAL SOCIETY □ Delft, The Netherlands (B. van Noijen, University of Technology, c/o Berlageweg 15, Delft, The Netherlands) 4/70

- 18-26 **International Congress on Acoustics** □ Budapest 3/70

- 18-28 • □ INTERNATL. ASTRON. UNION □ Brighton, UK (L. Fredrick, Leander McCormick Observatory, Univ. of Va., Box 3818, Charlottesville, Va. 22903) 4/70

- 19-21 **Aerodynamics** □ AAS-AMERICAN INST. OF AERONAUTICS AND ASTRONAUTICS □ Santa Barbara 3/70

- 24-26 **Radiation Effects in Semiconductors** □ IUPAP, AFRL, STATE UNIVERSITY OF NEW YORK AT ALBANY □ Albany 10/69

- 24-27 **2nd Inter-American Conference on Materials Technology** □ SOUTHWEST RESEARCH INSTITUTE □ Mexico City, Mexico 10/69

- 24-28 **Liquid Crystals** □ FRITZ-HARBOR-INSTITUT, MAX PLANCK GESELLSCHAFT □ Berlin, Germany [5/70] 2/70

- 26-29 **Small-Angle X-ray Scattering** □ ACA □ Graz, Austria 12/69

- 26-4 ♦ **High-Energy Physics** □ ORGANIZING COMM. □ Kiev, Ukrainian SSR (R. Walker, Cal Tech Physics Dept., Pasadena, Calif.) 2/70 (Note new date)

- 27-29 **Transport Properties of Solids** □ AUSTRALIAN INSTITUTE OF PHYSICS, IUPAP □ Sydney, Australia 2/70

- 30-6 **Electron Microscopy** □ Grenoble, France 8/69

- 31-4 **Strength of Metals and Alloys** □ AMERICAN SOCIETY FOR METALS □ Pacific Grove, Calif. 6/69

- 31-4 **Polarization Phenomena in Nuclear Reactions** □ IUPAP □ Univ. of Wisconsin, Madison 1/70

- 31-4 **Dynamic Studies with Radioisotopes in Clinical Medicine and Research** □ IAEA □ Rotterdam, Netherlands [4/70] 3/70

- 31-4 **Conference on Dynamics of Molecular Collisions** □ ORNL □ Oak Ridge, Tenn. 3/70

- 31-4 • **Mass Spectroscopy** □ Brussels, Belgium (P. Goldfinger, U.C.B., Fac. des Sciences, Chimie Physique 1, av. Roosevelt 50, Bruxelles, 5, Belgium) 4/70

- 31-5 **Heat Transfer** □ SOCIÉTÉ FRANÇAISE DES THERMiciens □ Versailles, France 1/70

SEPTEMBER 1970

- 1-3 **Nuclear Power in 1970** □ ANS □ Williamsburg, Va. 2/70

- 1-6 **Magnetic Resonances and Related Phenomena** □ COLLOQUE AMPERE □ Bucharest, Rumania 2/70

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1.7LHRM5P1 or NI	0-1.7	5	20LHRM1P1 or NI	0-20	1
2.5LHRM4P1 or NI	0-2.5	4	20LHRM5P1 or NI	0-20	5
3.5LHRM3P1 or NI	0-3.5	3	25LHRM5P1 or NI	0-25	5
5LHRM2P1 or NI	0-5	2	25LHRM10P1 or NI	0-25	10
7LHRM1.5P1 or NI	0-7	1.5	30LHRM.75P1 or NI	0-30	.75
10LHRM1P1 or NI	0-10	1	30LHRM5P1 or NI	0-30	5
12LHRM5P1 or NI	0-12	5	40LHRM.5P1 or NI	0-40	.5
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- 6-11 **Hyperfine Interactions Detected by Nuclear Radiation** ☐ IUPAP ☐ Rehovoth, Israel 3/70
- 6-15 **4th International Conference on the Peaceful Uses of Atomic Energy** ☐ UNITED NATIONS ☐ Geneva 2/70
- 7-10 **Quantum Electronics** ☐ INSTITUTE OF ELECTRONICS COMMUNICATION ENGINEERS OF JAPAN ☐ Kyoto 7/69
- 7-11 ☐ BRITISH NATL. COMMITTEE ON DATA FOR SCIENCE AND TECHNOLOGY 3/70
- 7-11 **Cybernetics** ☐ ASSOCIATION INTERNATIONALE CYBERNETIQUE ☐ Namur, Belgium 3/70
- 7-11 • **Controlled Fusion and Plasma Physics** ☐ EPS ☐ Rome, Italy (B. Brunelli, Laboratori Gas Ionizzati C.P. 65-00044 Frascati (Roma) 4/70
- 7-11 • **Radioactive Wastes** ☐ IAEA EUROPEAN NUCLEAR ENERGY AGENCY ☐ Aix-en-Provence, France (J. Kane, Div. of Technical Information, US AEC, Wash., D.C. 20545) 4/70
- 8-12 **Molecular Structure and Spectroscopy** ☐ OHIO STATE UNIVERSITY ☐ Columbus, Ohio 3/70
- 9-11 • **Methods in Radiochemistry** ☐ AUSTRIAN CHEM. SOC. ☐ Graz, Austria (W. Fritzsche, 6000 Frankfurt Main, Postfach 119075) 4/70
- 10, 11 **Magnetic Resonance in Nonconductors** ☐ BRITISH RADIOSPECTROSCOPY GROUP ☐ Nottingham, UK 1/70
- 11-17 **Education of Secondary-School Physics Teachers** ☐ IUPAP, HUNGARIAN NATIONAL COMMITTEE ON PHYSICS EDUCATION ☐ Eger, Hungary 11/69
- 14-16 **Photoelectron Spectroscopy** ☐ IPPS, CHEMICAL SOCIETY ☐ Oxford, UK 2/70
- 14-18 • **Microscopy** ☐ ROYAL MICROSCOPICAL SOCIETY ☐ London, UK (RMS, Canterbury House, 393 Cowley Road, Oxford OX4 2BS, UK) 4/70
- 14-18 ☐ INTERNATIONAL COUNCIL OF THE AERONAUTICAL SCIENCES ☐ Rome 11/69
- 14-18 **Organic Solid-State Chemistry** ☐ INTL. UNION OF CRYSTALLOGRAPHY, IUPAC ☐ Rehovoth, Israel 3/70
- 14-18 **Physics of Noncrystalline Solids** ☐ ORGANIZING COMMITTEE OF THE CONFERENCE ON PHYSICS OF NONCRYSTALLINE SOLIDS ☐ Shef-

field, UK [4/70] 11/69

- 14-19 **Magnetism** ☐ IUPAP ☐ Grenoble, France [4/70] 10/69
- 14-27 **INTERNATIONAL ASSOCIATION OF THE PHYSICAL SCIENCES OF THE OCEAN** ☐ Tokyo, Japan 2/70
- 15-18 **Gas Discharges** ☐ IPPS, INSTITUTE OF ELECTRICAL ENGINEERS (UK) ☐ London (IEE) 12/69
- 18, 19 **Solid State Physics** ☐ Bucharest, Rumania 2/70
- 21-23 **Temperature Measurement** ☐ IPPS ☐ Coventry, UK 2/70
- 21-23 **Magnetic Thin Films** ☐ IUPAP ☐ Prague, Czechoslovakia 1/70
- 21-24 **Engineering in the Ocean Environment** ☐ IEEE PANAMA CITY SECTION OF REGION III, IEEE OCEANOGRAPHY COORDINATION COMMITTEE ☐ Panama City, Fla. 11/69
- 22-24 **Physics and Nondestructive Testing** ☐ Chicago 3/70
- 22-24 **Vitreous State** ☐ FARADAY SOCIETY ☐ Bristol, UK 1/70
- 22-25 **Reaction Transition States** ☐ SOCIÉTÉ DE CHIMIE PHYSIQUE ☐ Paris 8/69
- 22-29 ☐ IAEA ☐ Vienna 2/70
- 23-24 • **Electron Device Techniques** ☐ IEEE ☐ New York, N.Y. (M. Gallagher, Hughes Res. Labs., 3011 Malibu Canyon Rd., Malibu, Calif. 90265) 4/70
- 23-25 • **Crystal Growth and Epitaxy** ☐ SWISS CRYSTALLOGRAPHIC SOCIETY AND COMITÉ INTERNATIONAL DE LA CROISSANCE CRISTALLINE ☐ Zurich (E. Kaldis, ETH Laboratorium für Festkörperphysik, Gloriastrasse 35, CH 8006 Zurich, Switzerland) 4/70
- Topics: Bulk growth of crystals from the vapor phase; epitactic growth of layers; whisker growth.
- 23-25 **High-Energy Physics** ☐ IPPS ☐ Durham, UK 3/70
- 28-30 **Metastable Metallic Alloys** ☐ IUPAP, EUR. PHYS. SOC., YUGOSLAV COUNCIL OF SCIENCE ☐ Brela, Yugoslavia 3/70
- 28-3 ☐ GERMAN PHYSICAL SOCIETY ☐ Hanover
- 29-1 **Conference on Advances in Polymer Science and Technology III: Chemistry of Liquid Polymers and Thermoplastic Copolymers** ☐ INSTITUTION OF RUBBER INDUSTRY ☐ London 11/69
- 29-2 ☐ OSA ☐ Hollywood, Fla.

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- 4-10 ♦ **International Astronautical Congress** ☐ INTERNATIONAL ASTRONAUTICAL FEDERATION ☐ Constance, Germany 3/70

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agement; earth resources; planetary physics and chemistry; bioastronautics.

5-7 • Gallium Arsenide and Related Compounds □ TECHNISCHE HOCHSCHULE, IPPS, US AIR FORCE □ Aachen, Germany (H. Beneking, Technische Hochschule Aachen, 5100 Aachen, Germany, Templergraben 55) 4/70

5-9 Plutonium Conference □ Santa Fe, New Mexico 2/70

5-9 • Nuclear Power Stations □ IAEA, US AEC, UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE □ Vienna, Austria (Joint Secretariat, Symposium on Economic Integration of Nuclear Power Stations in Electric Power Systems, c/o IAEA, 11 Kärntner Ring, P.O. Box 590, A-1011 Vienna, Austria) 4/70

5-10 Precision Measurements and Fundamental Constants □ IUPAP □ Gaithersburg, Md. 1/70

8,9 • □ APS OHIO SECTION □ Granville, Ohio (F. T. Gamble, Denison Univ., Granville, Ohio) 4/70

11-17 Physics and Chemistry of Semiconductor Heterojunctions and Layer Structures □ IUPAP, EUR. PHYS. SOC. □ Budapest 3/70

15-17 • □ APS DIVISION OF NUCLEAR PHYSICS □ Houston, Texas (J. A. Harvey, Division of Nuclear Physics, P.O. Box X, Oak Ridge National Lab., Oak Ridge, Tenn. 37830) [9/70] 4/70

19-24 Material Testing □ Budapest 2/70

19-24 Statistical Mechanics □ IUPAP □ Mexico 1/70

20, 21 Arc Symposium □ APS □ Hartford, Conn. 3/70

20-23 Vacuum Symposium □ AVS □ Washington, D. C. [6/70] 3/70

21-23 Ultrasonics □ IEEE SONICS AND ULTRASONICS GROUP □ San Francisco 1/70

21-23 Gaseous Electronics □ APS DIVISION OF ELECTRON AND ATOMIC PHYSICS □ Hartford, Conn. 8/69

26-29 □ INSTRUMENT SOCIETY OF AMERICA □ Philadelphia [3/70] 3/70

28-30 Electron Devices □ IEEE □ Wash., D. C. 12/69

NOVEMBER 1970

3-6 □ ASA □ Houston, Tex.

4-6 Nuclear Science Symposium □ IEEE □ New York 6/69

4-7 □ APS PLASMA PHYSICS DIVISION □ Washington, D. C.

15-19 □ ANS, ATOMIC INDUSTRIAL FORUM, ATOMIC FAIR □ Washington, D. C. 6/69

15-19 Magnetism and Magnetic Materials □ IEEE □ Miami Beach, Fla. 12/69

16-18 Solar Activity □ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS □ Huntsville, Ala. 3/70

23-25 • □ APS □ New Orleans, La. (L. Seagondollar, APS, Dept. of Physics, No. Carolina State Univ., Raleigh, N.C. 27607) [9/70] 4/70

30-5 □ RADIOLOGICAL SOCIETY OF NORTH AMERICA □ Chicago, Ill. 2/70

DECEMBER 1970

6-11 □ AIR POLLUTION CONTROL ASSOCIATION □ Wash., D.C. 2/70

7-10 • □ AAS □ Tampa, Fla. (L. Fredrick, Leander McCormick Observatory, Univ. of Va., Box 3818, Charlottesville, Va. 22903) 4/70

7-10 □ AMERICAN GEOPHYSICAL UNION □ San Francisco 3/70

14-18 • Relativistic Astrophysics □ UNIV. OF TEXAS □ Austin, Texas (L. C. Shepley, Physics Department, University of Texas, Austin, Texas 78712) 4/70

28-31 □ APS □ Stanford, Calif.

FEBRUARY 1971

1-4 □ APS-AAPT □ New York

MARCH 1971

1-3 • Particle Accelerators □ IEEE □ Chicago, (IEEE, 345 E. 47 St., N.Y., N.Y. 10017) 4/70

29-1 □ APS □ Cleveland, Ohio

APRIL 1971

5-8 □ OSA □ Tucson, Ariz.

5-8 Atomic and Molecular Physics □ IPPS □ York, UK 3/70

12-16 □ AMERICAN GEOPHYS. UNION, NATL. ACAD. SCI., NATL. RES. COUNCIL □ Wash., D. C. 3/70

13-15 Magnetism □ IEEE MAGNETICS GROUP □ Denver, Colo. 10/69

18-23 Geoscience Electronics □ IEEE □ Wash., D. C. 2/70

20-23 □ ASA □ Washington, D. C. 7/69

26-29 □ APS □ Washington, D. C.

MAY 1971

9-13 □ RADIATION RESEARCH SOCIETY □ Boston 2/70

16-20 • Microwaves □ IEEE □ Chicago, Ill. (R. Garver, Harry Diamond Labs., Conn. Ave. and Van Ness St., Washington, D.C. 20438) 4/70 □