

calendar

JANUARY 1982

- 6-8 **OSA/IEEE 6th Topical Mtg on Integrated and Guided-Wave Optics** Pacific Grove, Cal. 5/81
- 10-13 **159th Mtg of AAS** Boulder, Colo. 5/81
- 12 **Physics Symp in Celebration of Melvin Lax's 60th Birthday** City College of New York 7/81
- 18-22 **15th European Conf on Laser Interaction with Matter (15th Eclim)** Schliersee, FRG 7/81
- 19-21 **Symp on Silicon Processing** San Jose, Cal. 9/81
- 21 **2nd Ann Plasma Processing Symp** San Jose, Cal.
- 25-28 **APS/AAPT Ann Joint Mtg** San Francisco, Cal. 11/80
- 25-28 → **Programs at APS/AAPT Mtg** San Francisco (D. Shea, SPS, 335 E. 45th St., New York, N.Y. 10017) [(516) 349-7800]
- 25-29 **1982 SPIE Technical Symp** Los Angeles 9/81

- 25-29 **6th Ann Symp "Energy from Biomass and Wastes"** Lake Buena Vista, Fla. 9/81
- 27-29 **9th Ann PCSI Conf** Pacific Grove, Cal. 9/81
- 30 → **SPS Symp for Undergraduate Physics Students** Rochester, N.Y. (H. E. Gove, Dept. of Phys., Univ. of Rochester, NY 14627)

FEBRUARY 1982

- 4-6 **Electro-Optics/Laser Int Japan Expo** Tokyo
- 9-11 → **Non-invasive Studies of Body Chemistry** Santa Monica, Cal. (Intra-Science Res. Found., P.O. Box 18589, L.A., CA 90018)
- 16-17 **9th Ann Energy Technology Conf and Exp (ET'82)** Washington, D.C. 7/81
- 17-19 **1st Ann Conf of the Aerosol Research Assoc** Santa Monica, Cal. 11/81
- 17-23 **Int Conf on Instrumentation for**

Colliding Beam Phys Stanford, Cal. 11/81

- 20-26 **COMPCON Spring 1982** San Francisco, Cal. 5/81
- 22-24 **Adhesion Soc Ann Mtg** Mobile, Ala. 9/81

MARCH 1982

- 1-3 **Int Workshop on Propagator Methods in the Quantum Theory of Matter** Palm Coast, Fla. 7/81
- 1-3 **9th Austin Symp on Molecular Structure** Austin 9/81
- 4-6 **Int Symp on Quantum Biology and Quantum Pharmacology** Palm Coast, Fla. 7/81
- 4-6 **Int Symp on the Electronic Structure and Properties of Hydrogen in Metals** Richmond, Va. 7/81
- 7-11 **3rd Int Symp on Gaseous Dielectrics** Knoxville, Tenn. 5/81
- 7-11 **AIAA 9th Communications Satellite Systems Conf** San Diego, Cal. 5/81
- 8-10 **Laser Techniques for Extreme Ultraviolet Spectroscopy** Boulder, Co. 9/81
- 8-10 → **Instrumentation in Astronomy-IV** Tucson, Ariz. (SPIE Tech. Programs Comm., Tucson, P.O. Box 10, Bellingham WA 98227)
- 8-12 **APS Gen Mtg** Dallas 5/81
- 8-12 → **SPS Programs at APS Mtg** Dallas (D. Shea, SPS, 335 E. 45th St., New York, NY 10017) [(516) 349-7800]
- 8-13 **Int Symp on Quantum Chemistry and the Quantum Theory of Condensed Matter in Honor of Joseph E. Mayer** Palm Coast, Fla. 7/81
- 10-12 **4th Int Conf on Thermoelectric Energy Conv** Arlington, Tex. 11/81
- 11-13 → **Int Conf on Advanced Technology Optical Telescopes** Tucson, Ariz. (SPIE Tech. Programs Comm., Tucson, P.O. Box 10, Bellingham WA 98227)
- 12-13 → **Regional SPS Mtg** Baton Rouge, La. (J. P. Draayer, Dept. of Phys., Louisiana State Univ., Baton Rouge, LA 70803) [(504) 388-6835]
- 12-17 **Int Symp on Applications and Technology of Ionizing Radiations** Riyadh, Saudi Arabia) 5/81
- 14-18 **6th Symp on Temperature—Its Measurement and Control in Sci-**

Coding: date title [sponsor] location (contact) [abstract deadline] PHYSICS TODAY issue containing full listing

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A calendar of physics-related meetings is included only in alternate (odd-numbered) months. Send information to: Calendar, PHYSICS TODAY, 335 East 45th Street, New York, N.Y. 10017. A notice should be timed to arrive three months before the listing should appear.

Abbreviations:

AAPM American Association of Physicists in Medicine
AAPT American Association of Physics Teachers
AAS American Astronomical Society
ACA American Crystallographic Association
APS American Physical Society
ASA Acoustical Society of America
AVS American Vacuum Society
OSA Optical Society of America
SPS Society of Physics Students
S of R Society of Rheology
AAAS American Association for the Advancement of Science
AGU American Geophysical Union
ANS American Nuclear Society
CNRS Centre National de la Recherche Scientifique
DOE Department of Energy

DPG Deutsche Physikalische Gesellschaft
EPS European Physical Society
IAEA International Atomic Energy Agency
IAU International Astronomical Union
IEEE Institute of Electrical and Electronics Engineers
IOP The Institute of Physics
IUPAP International Union of Pure and Applied Physics
IUPAC International Union of Pure and Applied Chemistry
NAS National Academy of Sciences
NBS National Bureau of Standards
NRC Nuclear Regulatory Commission
NRL Naval Research Laboratory
NSF National Science Foundation
ONR Office of Naval Research
ORNL Oak Ridge National Laboratory

Short courses

Radiation Safety Officer's Course

11-15 January 1982 San Antonio (M. Petterborg, Medical School Continuing Ed. Ser., Univ. of Tex. Health Sci. Center, 7703 Floyd Curl Dr., San Antonio, TX 78284 [(512) 691-6295]).

Medical Physics Short Course for Physics Teachers

23-24 January 1982 [AAP, AAPM, Univ. of California-San Francisco, & Univ. of Minnesota] San Francisco (R. K. Hobie, Univ. of Minnesota, Shepherd Lab., 100 Union St. S. E., Minneapolis, MN 55455).

The Arms Race

24 January 1982 [APS Forum on Physics and Society] San Francisco (D. Schroeder, Univ. of N. C., Phillips Hall 039 A, Chapel Hill, NC 27514).

Solid State Imaging

25-29 January 1982 Los Angeles (M. Rosenberg, UCLA, 6266 Boelter Hall, Los Angeles, CA 90024).

Adhesion

20-21 February 1982 [Adhesion Soc.] Mobile, Ala. (K. C. Stueben, Union Carbide, Coatings Materials Div., P. O. Box 670, Bound Brook, NJ 08805).

Basic Radiological Health Course

22-26 February 1982 San Antonio (M. Petterborg, Med School Continuing Ed. Ser., Univ. of Tex. Health Sci. Center, 7703 Floyd Curl Dr., San Antonio, TX 78284 [(512) 691-6295]).

Electroweak Interactions

25 February-6 March 1982 Schladming, Austria (Organizing Comm., Inst. for Theoretische Physik, Universitätsplatz 5, A-8010 Graz, Austria).

Fundamentals of the Polymer Solid State

6-7 March 1982 [APS Div of High Polymer Physics] Dallas (W. J. MacKnight, Polymer Sci. and Eng., Univ. of Massachusetts, Amherst, MA 01003 [(413) 545-0433]).

Laser Technology and Systems Applications

8-9 March 1982 Atlanta (Dept. of Continuing Ed., Georgia Inst. of Tech., Atlanta, GA 30332 [(404) 894-2400]).

Infrared Technology and Applications Short Course

10-12 March 1982 Atlanta (Dept. of Continuing Ed., Georgia Inst. of Tech., Atlanta, GA 30332 [(404) 894-2400]).

Structural Dynamics: A Computer-Oriented Approach with Applications

29 March-2 April 1982 Columbia, Md. (S. Dong, Continuing Ed. Inst., 10889 Wilshire Blvd., Suite 1030, Los Angeles, CA 90024 [(213) 824-9545]).

X-Ray Powder Diffraction File Workshop on Search/Match Techniques

2 April 1982 Bethesda, Md. (C. Forris, Du Pont, Experimental Station Bldg. 356, Wilmington, DE 19898).

Magnetic Resonance in Colloid and Interface Science

31 May-6 June 1982 Torun, Poland (A. Gutsze, Inst. of Phys, Nicholas Copernicus Univ. ul. Grudziadzka 5, 87-100 Torun, Poland).

Gravitational Radiation

2-21 June 1982 Les Houches, France (T. Piran, Inst. for Advanced Study, Princeton, NJ 08540).

New Techniques in Magnetic Resonance

14-20 June 1982 Portoroz, Yugoslavia (M. Viltan, Ampere School Org. Comm., J. Stefan Inst., Jamova 39, 61000 Ljubljana, Yugoslavia).

Latin American School of Physics

21 June-10 July 1982 [OAS] Bogotá, Columbia (A. Rueda, Facultad de Artes y Ciencias, Univ. de los Andes, Apartado, Aereo 43116, Bogotá, Columbia).

New Trends in Atomic Physics

28 June-29 July 1982 [NATO Advanced Study Institutes] Les Houches, France (Ecole d'Ete de Physique Theorique, Côte des Chavants, 74310 Les Houches, France).

ence and Industry Washington, D. C. 5/81

15-17 → **Phys of High Polymers** Regensburg, FRG (H. Hespe, Bayer AG, FE-DPP, Polymerphysik, Geb. B 406, D-5090 Leverkusen, FRG)

15-17 **Human Factors in Computer Systems** Gaithersburg, Md. 9/81

22-24 → **Crystallography** Kiel, FRG (H. Wondratschek Inst. fur Kristallographie der Univ., Kaiserstr. 12, D-7500 Karlsruhe 1, FRG)

22-25 **Gen Conf of the Condensed Matter Div** Manchester, UK 11/81

22-26 **4th ASTM-Euratom Symp** Gaithersburg, Md. 9/81

23-25 → **1st Int Conf on Halide Glasses: Materials and Application** Univ. of Cambridge, England (M. G. Drexhage, Solid-State Sciences Div., RADC/ESM, Stop #64, Hanscom AFB, MA 01730)

23-25 **1982 Tri-Service Cathode Workshop** Fort Monmouth, N.J. 11/81

23-27 → **Rocky Mountain-Southwest Theo-**

retical Phys Conf Univ. of Utah (D. Mattis, Dept. of Phys., 201 JFB, Univ. of Utah, Salt Lake City, UT 84112 [(801) 581-3690])

25-26 **Int Conf on Alloy Sci** Univ. of Conn. 9/81

25-27 **Spin Excitations in Nuclei** Telluride, Colo. 7/81

29-31 **Vacuum '82** Chester, England 5/81

29-1 **Acoustics '82** University of Surrey, Eng. 11/81

29-2 **Spring Conf on Thermodynamics and Statistical Phys** Münster, FRG 11/81

29-2 **3rd Int Congress of European Association of Thermology** Bath, UK 5/81

29-2 **ACA Gen Mtg** Gaithersburg, Md. 5/81

30-31 **4th Ann BEA*CON Conf and Exhibits** Minneapolis 11/81

30-3 **Int Conf on Applications of Phys to Medicine** Trieste, Italy 11/81

APRIL 1982

2-3 → **SPS Zone 2 Mtg** Cortland (R. Chaturvedi, Dept. of Phys., SUNY, Cortland, NY 13405)

4-8 **6th Int Conf on Positron Annihilation** Arlington, Tex. 5/81

4-9 **Int Conf on Metallurgical Coatings and Process Technology** San Diego 11/81

6-8 → **Int Conf on Optical Properties of Glass and Other Optical Materials** [Int. Comm. on Glass, Eur. Optical Comm] (G. C. Righini, IROE-CNR, Via Panciatichi 64, 50127 Firenze, Italy)

12-15 → **Fast Thermal and Fusion Reactor Experiments Conf** [Eastern Idaho Sec., Materials Sci. and Tech. Div. of ANS] Salt Lake City, Utah (E. Burdick, P. O. Box 2196, Idaho Falls, ID 83401)

13-15 **OSA/IEEE 5th Topical Mtg on Optical Fiber Communication** Phoenix, Ariz. 5/81

14-16 **OSA/IEEE 2nd Conf on Lasers and Electro-Optics** Phoenix, Ariz. 5/81

15-17 **3rd Workshop on Grand Unification** Chapel Hill, N.C. 11/81

16-17 **Teaching Sound and Musical Acoustics** Sacramento, Ca. 9/81

18-24 **4th Cong of the Int Rehabilitation Medicine Assoc** San Juan, P. R. 5/81

20-22 **Mechanical Failures Prevention Group** Gaithersburg, Md. 9/81

21-23 → **Int Conf on II-VI Compounds** [Br. Assoc. for Crystal Growth] Univ. of Durham, England (J. Woods, Dept. of Applied Phys. & Elect., Univ. of Durham, South Road, Durham, DH1 3LE, UK)

22-23 **13th Ann Modeling and Simulation Conf** Pittsburgh 11/81

23-26 **Catgut Acoustical Soc Mtg** De Kalb, Ill. 11/81

26-29 **APS Gen Mtg** Washington, D. C. 5/81

26-30 **103rd Mtg of the ASA** Chicago, Ill. 5/81

MAY 1982

2-5 **84th Ann Mtg Nuclear Div American Ceramic Soc**, Cincinnati 11/81

3-7 **5th Int Conf on Plasma Surface Interactions** Gatlinburg, Tenn. 7/81

7-8 **APS Spring Mtg** Akron, Ohio 9/81

9-12 **Phoenix Conf on Computers & Communications** Phoenix 11/81

10-14 **Int Symp on Management of Wastes from Uranium Mining and Milling** Albuquerque 9/81

11-14 **Vosbergen Conf — Theoretical Phys** Vlieland Island, The Netherlands 11/81

11-15 **SATURN** Tucson, Ariz. 11/81

17-19 **INTER-NOISE 82: 11th Int Conf on Noise Control Engineering** San Francisco, Cal. 5/81

17-19 **9th Int Conf on Plasma Sci** Ottawa 9/81

- 17-21 **OSA Spring Conf on Applied Optics** Rochester, N.Y.
 25-26 **Ann Workshop on Nonlinear Dynamics** The Netherlands, 11/81
 25-27 **Electro '82** Boston, Mass. 5/81
 25-30 **2nd Int Symp on Radiation Phys** Universiti Sains, Malaysia 9/81

JUNE 1982

- 1-3 **Neutron Transmutation Doping Conf** Gaithersburg, Md. 11/81
 1-4 **1982 Int Geoscience and Remote Sensing Symp** Univ. of Munich, FRG 11/81
 2-4 **4th Symp on Applied Surface Analysis** Dayton, Ohio 11/81
 6-8 **4th IEEE Int Pulsed Power Conf** Albuquerque, N. M.
 6-9 → **AAS Gen Mtg** Troy, N. Y. (Exec. Office, AAS, 1816 Jefferson Pl. N. W., Washington D. C. 20036)
 6-11 **30th Ann Conf on Mass Spectrometry** Honolulu 11/81
 6-11 **3rd Int Symp on Radiation Protection: Advances in Theory and Practice** Inverness, Scotland 5/81
 6-11 **ANS Ann Mtg** Los Angeles, Cal. 5/81
 7-9 **Symp on Instrumentation and Control for Fossil Energy Processes** Houston 11/81
 7-10 **National Computer Conf** New York 5/81
 7-11 **Conf on Non-Linear Fluid Behavior** Boulder, Colo. 11/81
 7-11 **3rd Int Symp on Magnetic Resonance in Colloid and Interface Science** Torun, Poland 9/81
 9-15 **Int Conf on Plasma Physics, Joint Conf of 5th Kiev Int Conf or Plasma Theory and 5th Int Conf on Waves and Instabilities in Plasmas** Goteborg, Sweden 5/81
 13-18 **Int Microwave Symp** Dallas, Tex. 5/81
 14-16 **Physical Electronics Conf** Atlanta, Ga. 9/81
 14-17 **Ann Mtg of Society of Nuclear Medicine** Miami Beach, Fla. 5/81
 14-17 **4th Int Conf on Physico-Chemical Hydrodynamics** New York 9/81
 14-18 → **5th European Conf on Electro-technics [IEEE]** Lyngby, Denmark (A. Sonne, DIEU, Tech. Univ. of Denmark, Bldg. 208, DK-2800 Lyngby, Denmark)
 15-17 **Int Microwave Symp** Los Angeles, Cal. 5/81
 16-18 → **3rd Topical Meeting on Picosecond Phenomena** Garmish-Partenkirchen, FRG (OSA, 1816 Jefferson Pl. N. W., Washington, D. C. 20036 [(202)-223-8130]) [2/1/82]
 16-18 → **2nd Int Conf on Boundary and Interior Layers—Computational and Asymptotic Methods (BAIL II)** Dublin, Ireland (BAIL Conf., 39 Trinity College, Dublin 2, Ireland) [3/19/82]
 21-23 → **Symp on Relativistic Effects in Quantum Chem** Abo Akademi, Finland (P. Pyykko, REQC-82, Dept. of Physical Chem., Abo Akademi, Porthansgatan 3-5, SF-20500 Abo

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(Turku), Finland) [3/31/82]

21-25 → **11th Int Laser Radar Conf** [IA-MAP] Madison, Wisc. (J. Edwards, Space Science & Eng. Ctr., 1225 W. Dayton St., Madison, WI 53706) [2/28/82]

22-25 **12th Int Quantum Electronics Conf** Munich 9/81

23-25 **AAPT Summer Mtg** So. Oregon State College 9/81

28-30 **ASTM 11th Int Symp on the Effects of Radiation on Materials** Scottsdale, Ariz. 5/81

28-1 → **Conf on Precision Electromagnetic Measurements** [NBS, IEEE] Boulder, Colo. (D. Belsher, NBS, 1-4001, 325 Broadway, Boulder, CO 80303 [(303)497-3981])

28-1 → **Symp on Random Walks with Application to the Physical & Biological Sci** [NBS] Gaithersburg, Md. (G. H. Weiss, National Inst of Health, Bethesda, MD 20205)

JULY 1982

5-7 **Int Symp on Applications of Laser-Doppler Anemometry to Fluid Mechanics** Lisbon 9/81

7-12 → **6th Int Conf on Spectral Line Shapes** [APS] Boulder, Colo. (K. Burnett, Joint Inst. for Lab Astrophys., Univ. of Colorado, Boulder CO 80309)

12-14 **Int Conf on Biomedical Polymers** England 7/81

12-16 **28th Int Union of Pure & Applied Chem Macromolecular Symp** Amherst, Mass. 9/81

20-23 **3rd Joint MMM-Intermag Conf** Montreal 9/81

25-30 **Int Conf on the Electronic and Molecular Structure of Conductor-Electrolyte Interfaces** Logan, Utah 7/81

26-30 **3rd Mtg of the World Federation for Ultrasound in Medicine and Biology** Brighton, UK 7/81

AUGUST 1982

1-5 **24th Ann Mtg of AAPM** New Orleans, La. 9/81

1-6 → **5th Int EPR Symp** [Soc. for Applied Spectroscopy] Denver (G. R. Eaton, Dept. of Chem., Univ. of Denver, Denver, CO 80208) [3/24/82]

1-6 → **NMR Symp** [Soc. for Applied Spectroscopy] Denver (F. P. Miknis, Laramie Energy Tech. Center, Laramie, WY 82071) [3/24/82]

2-3 **6th Int Symp on the Phys and Chem of Ice** Rolla, Mo. 9/81

9-13 **Int Conf on X-ray and VUV Synchrotron Radiation Instrumentation** Hamburg-DESY, FRG 9/81

15-20 **ACA Gen Mtg** San Diego, Cal. 9/81

16-20 **13th Australian Spectroscopy Conf** La Trobe Univ., Melbourne, Australia 9/81

18-20 • **Nordic Conf on Surface Sci** Tampere, Finland 9/81

23-27 **Int Conf on X-Ray and Atomic**

Inner-Shell Physics Eugene, Ore. 9/81

24-27 → **5th European Conf on Surface Sci & 7th Solid Vacuum Interface NEVAC Symp** Gent, Belgium (Lab. voor Kristallografie en Studie van de Vaste Stof, R. U. G., Krijgslaan 27, B-9000 Gent, Belgium)

25-30 **7th Sagamore Conf on Charge, Spin and Momentum Densities** Nikko, Japan 9/81

27-30 **2nd Int Symp on Molecular Beam Epitaxy and Related Clean Surface Techniques** Lake Kawaguch, Japan 9/81

29-2 **3rd World Cong of Nuclear Medicine and Biology** Paris 9/81

29-3 **European Crystallographic Mtg** Jerusalem, Israel 9/81

29-4 **4th Europhysical Topical Conf: Lattice Defects in Ionic Crystals** Dublin 9/81

30-3 → **9th Int Mass Spectrometry Conf** Vienna (Spectrometry Conf., c/o Interconvention, P. O. Box 80, A-1107 Vienna, Austria) [1/15/82]

30-3 → **Supernova Remnants and Their X-ray Emission** [IAU] Venice (S. D'Odorico, ESO, K. Schwarzschild Str. No. 2, D-8046 Garching bei Munchen, FRG)

30-3 → **9th Int Liquid Crystal Conf** Krakow, Poland (W. Witko, Inst. of Nuclear Phys., 31-342, Krakow, Poland) [2/15/82]

SEPTEMBER 1982

1-3 **Yamada Conf on Neutron Scattering of Condensed Matter** Tokyo 9/81

1-8 **9th Int Conf on Plasma Phy and Controlled Nuclear Fusion Res** Baltimore 9/81

5-10 → **Int Symp on Precision and Speed in Close-Range Photogrammetry** York, England (K. B. Atkinson, Dept. of Photogrammetry and Surveying, Univ. College London, Gower St, London WC1E 6BT, UK)

5-11 **6th Int Conf on Medical Physics & 13th Int Conf on Med & Biological Engineering** Hamburg, FRG 9/81

6-10 **Int Conf on Nuclear Data for Science and Technology** Antwerp, Belgium 9/81

6-10 **Int Conf on Magnetism** Kyoto, Japan 9/81

6-17 **Diagnostics for Fusion Reactor Conditions** Italy 9/81

7-9 **4th European Study Conf on Low Energy Molecular Collisions** Nijmegen, The Netherlands 9/81

8-10 **Optics '82** Univ. of Edinburgh 9/81

12-15 → **ANS Nat Workshop on Low Level Waste Packaging/Shipping** San Diego (N. Norman, Bechtel, 724 47th Ave., San Francisco, CA 94121 [(415)768-4035])

13-15 → **Semiconductors in the Vacuum UV: Applications of Synchrotron Radiation** [BESSY/Fritz Haber Inst.] Berlin (A. M. Bradshaw, BESSY, Takustr. 3, 1000 Berlin 33, FRG)

13-16 → **10th Int Colloq on Magnetic**

Films and Surfaces [IUPAP] Yokohama, Japan (Y. Gondo, Faculty of Eng., Yokohama Nat. Univ., Yokohama 240, Japan)

13-16 → **45th Ann Meteoritical Soc Mtg** St. Louis (G. Crozaz, Washington Univ., Box 1105, St. Louis, MO 63130)

13-17 **IOP Conf on the Neutron and Its Applications** Cambridge, England 9/81

13-17 **12th Symp on Fusion Technology** Jülich, FRG 9/81

13-17 **Int Conf on Nuclear Power Experience** Vienna 9/81

14-16 **5th Int Conf on Ternary and Multinary Compounds** Cagliari, Italy 9/81

20-24 **10th Molecular Crystal Symp** St. Jovite, Quebec 9/81

21-24 → **8th European Conf on Optical Communication** Cannes (Sec. Gen. ECOC 1982, 11 rue de Hameline, 75783 Paris Cedex 16, France)

21-24 → **Computing in Accelerator Design and Operation** Warsaw (J. Ciszewska, R. C. C. CYFRONET, Inst. of Nucl. Res., 05-400 Otwock-Swierk, Poland) [2/1/82]

26-1 → **Int Conf on Nucleus-Nucleus Collisions** [IUPAP] Michigan (D. Scott, Nat. Superconducting Cyclotron Lab, Michigan State Univ., E. Lansing, MI 48824)

OCTOBER 1982

4-7 **Symp on Advances and Trends in Structural and Solid Mechanics** Washington, DC 9/81

14-16 **APS Nuclear Phys Div** Amherst, Mass. 9/81

17-22 → **Int Symp on VLS Integration Sci and Tech** Detroit (D. A. Doane, Bell Telephone Labs, 7B-530, Murray Hill, NJ 07974) [1/15/82]

18-22 **OSA Ann Mtg** Tucson, Ariz. 9/81

19-23 **Ceramitec '82** Munich, FRG 9/81

28-30 → **Workshop: The Interaction between Medium-Energy Nucleons in Nuclei** Indiana Univ Cyclotron Facility, Bloomington (H. O. Meyer, Dept. of Phys., Indiana Univ., Swain Hall West, Bloomington, IN 47405 [(812) 337-9365])

28-30 **Southeastern Section of APS** Lexington, Ky. 9/81

28-30 **APS Particles & Fields Div** College Park, Md. 9/81

NOVEMBER 1982

1-5 **APS Plasma Phys Div** New Orleans, La. 9/81

3-5 **APS Fall Mtg** Philadelphia 9/81

8-12 **ASA 104th Mtg** Orlando, Fla. 9/81

14-19 → **ANS Winter Mtg** Washington, D.C. (J. S. Tulenko, B&W-Box 1260, Lynchburg, VA 24505 [(804) 384-5111])

16-19 **29th Nat Vacuum Symp** Baltimore, Md. 9/81

21-23 **APS Fluid Dynamics Div** New Brunswick, N. J. 9/81

DECEMBER 1982

6-10 → **Int Conf on Chemistry and World Food Supplies—The New Frontiers** [IUPAC/IPRI] Manila (CHEMRAWN II Coordinating Office, Int. Food Policy Res. Inst., 1776 Massachusetts Ave. NW, Wash., D. C. 20036)

13-17 → **XI Texas Symp on Relativistic Astrophys** Austin (D. S. Evans, Dept of Astronomy, Univ. of Texas, Austin, TX 78712 [(512) 471-4471])

JANUARY 1983

24-27 → **AAPT Mtg** New York City (Exec. Office, AAPT, Graduate Phys. Bldg., SUNY, Stony Brook, NY 11794)

FEBRUARY 1983

28-2 → **Topical Mtg on Optical Fiber Communication** New Orleans (OSA, 1816 Jefferson Pl., N. W. Washington, D. C. 20036)

MARCH 1983

14-18 → **Ann Mtg of ACA** Univ. of Columbia, Mo. (E. Snider, 335 E. 45 St., New York, NY 10017)

APRIL 1983

18-21 → **APS Spring Mtg** Baltimore, Md. (W. W. Havens Jr., 335 E. 45th St. New York, NY 10017)

MAY 1983

8-14 **ASA 105th Mtg** Cincinnati, Ohio 9/81

17-19 → **Conf on Lasers and Electro-optics** Baltimore (OSA, 1816 Jefferson Pl., N. W., Washington, D. C. 20036)

26-31 **AAAS Ann Mtg** Washington, D.C. 9/81

29-3 **4th Int Conf on Fluidization** Kashikojima, Japan 9/81

31-3 **Symp on Microwave Theory and Technique** Boston, Mass. 9/81

JUNE 1983

12-17 → **ANS Ann Mtg** Detroit, (D. O'Brien, Commonwealth Edison, Rt. 1, Box 84, Braidwood Sta., Braceville, IL 60407 [(815)458-2801])

15-17 → **3rd Conf on Numerical Analysis of Semiconductor Devices and Integrated Circuits (NASECODE III)** Galway, Ireland (NASECODE Conf., 39 Trinity College, Dublin 2, Ireland) [2/18/83]

JULY 1983

4-9 → **10th Int Conf on General Relativity and Gravitation** Venice (F. de Felice, GR10, Inst. di Fisica "G. Galileo," Univ. of Padua, via Marzolo 8, 35100 Padova, Italy) □

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down of the system. And their full bandwidth is instantly available—no tuning or system adjustments needed for continuous or automatic sweeping.

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