

# calendar

## SEPTEMBER 1981

- 15-17 **Western Electronic Show and Convention (WESCON)**, San Francisco, Cal. 5/81
- 15-18 **Int Mtg (Relativistic Astrophysics, Origins and Evolution of the Solar System, Late Stages of Stellar Evolution)** Innsbruck, Austria 3/81
- 16-18 **Oceans 81** Boston, Mass. 5/81
- 20-22 **Molecular Spectroscopy/FACSS Mtg** Philadelphia, Pa. 5/81
- 20-23 **1981 Int Symp on Gallium Arsenide and Related Compounds** Oiso, Kanagawa, Japan 3/81
- 20-23 → **5th Int Conf on Collective Phenomena** [NY Acad. of Sci., Comm. of Concerned Scientists] Moscow (D. Hirsch, Comm. of Concerned Scientists, 9 E. 40 St. N. Y., N. Y. 10016)
- 21-23 **7th Biennial Symp on Turbulence** Rolla, Mo. 5/81
- 21-25 **5th Int Thin Films Congress, Thin Films: Properties and Devices** Herzlia-on-Sea, Israel 5/81
- 21-26 **12th Europys Conf on Macromolecular Phys on Molecular Mobility in Polymer Systems** Leipzig, German Dem. Rep. 9/80

- 22-25 **6th Symp on the Jahn-Teller Effect** Nijmegen, The Netherlands 5/81
- 23-25 **5th Nat Quantum Electronics Conf** Hull, England 3/81
- 24-25 → **Nat Conf on Medical Devices—Standards, Measurement and Quality Assurance** [NBS] Gaithersburg, Md. (H. Yolken, A261 Metrology Bldg., NBS, Wash. D. C. 20234 [(301)921-2652])
- 28-2 **Int Conf on Industrial Applications of Radioisotopes and Radiation Technology** Grenoble, France 5/81

## OCTOBER 1981

- 4-9 **Int Conf on Radiation Hazards in Mining: Control, Measurement, and Medical Aspects** Denver, Colo. 5/81
- 5-7 **1st Int Symp on Radiological Physics** Bratislava, CSSR 3/81
- 5-7 **Topical Conf on Application of Physics in the Steel Industry** Bethlehem, Pa.
- 5-7 **3rd Symp on Frequency Standards and Metrology** Aussois, France 5/81

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

**Please note:** A calendar entry preceded by an → is a new and complete listing. A ● denotes an entry that contains additional or revised information. An entry not preceded by either symbol is an abridged version of a complete listing previously published in PHYSICS TODAY. The date at the end of an abridged entry specifies the issue in which the item originally appeared.

### Abbreviations:

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

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

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.

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## Short courses

### Modern Surface Spectroscopy Techniques—AES, ESCA, SIMS, UPS Applied to Problems in Materials and Chemistry

21-25 September 1981 Austin (Continuing Engineering Studies, Cockrell Hall 2.102, Univ. of Texas at Austin, TX 78712).

### The Correlation Of Engineering And Scientific Data

28-29 September 1981 Houston (T. Wilds, 516 Fifth Ave., New York, NY 10036 [(212)986-2515]).

### Practical Aspects of Polymer Rheology in Processing

10-11 October 1981 Louisville, Kentucky (D. Hunton, Nat. Bureau of Standards, Polymer Science & Standards Div., Wash., D. C. 29234).

### Gas Fluidization

19-22 October 1981 Central New Jersey (Center for Professional Advancement, P. O. Box 964, E. Brunswick, NJ 98816).

### Size Reduction and Classification of Solids

20-23 October 1981 Central New Jersey (Center for Professional Advancement, P. O. Box 964, E. Brunswick, NJ 98816).

### Digital Electronics for Automation and Instrumentation

26-28 October 1981 Blacksburg, Va. (L. Leffel, C. E. C., Virginia Tech, Blacksburg, VA 24061 [(703)961-5241]).

### Scanning Electron Microscopy and X-Ray Microanalysis: Theory and Practice in Biology and Medicine

26-29 October 1981 New York (A. V. Patsis, State Univ. of New York, CSB 209, New Paltz, NY 12561 [(914)257-2175]).

### Shock and Vibration

27-29 October 1981 [Defense Nuclear

Energy] New Orleans, La. (Shock and Vibration Information Center, Code 5804, Naval Research Laboratory, Washington, D. C. 20375 [(202)767-2220]).

### Microcomputer Design Interfacing and Programming Using the Z80/8085/8080

29-31 October 1981 Blacksburg, Va. (L. Leffel, C. E. C., Virginia Tech, Blacksburg, VA 24061 [(703)961-5241]).

### Scientific Instrument Automation, Interfacing and Programming Using the TRS-80 Microcomputer

2-4 November 1981 Blacksburg, Va. (L. Leffel, C. E. C., Virginia Tech, Blacksburg, VA 24061 [(703)961-5241]).

### Water Soluble Polymers: Synthesis, Structure and Applications

2-4 November 1981 New York (A. V. Patsis, State Univ. of New York, CSB 209, New Paltz, NY 12561 [(914)257-2175]).

### An Overview of Droplet Sizing Methods

9-10 November 1981 Costa Mesa, Cal. (W. Bachalo, Spectron Dev. Labs, 3303 Harbor Blvd., Costa Mesa, CA 92626 [(714)549-8477]).

### Creep, Viscoelasticity and Creep Fracture in Solids

9-13 November 1981 Washington, D. C. (Dir., Continuing Eng. Ed., George Washington Univ., Wash., D. C. 20052 [(202)676-6106]).

### Bayesian Statistics for Engineers and Scientists

9-13 November 1981 Washington, D. C. (Dir., Continuing Eng. Ed., George Washington Univ., Wash., D. C. 20052 [(202)676-6106]).

### Laser Fundamentals and Systems

16-20 November 1981 Chicago (Laser Institute of America, P. O. Box 9000, Waco, TX 76710 [(817)772-9782]).

20-23 34th Annual Gaseous Electronics Conf Boston, Mass. 5/81

21-23 Nuclear Science Symp San Francisco, Cal. 5/81

21-23 → Mechanical Failures Prevention Group [NBS] Gaithersburg, Md. (H. Burnett, B264 Materials Bldg., NBS, Wash., D. C. 20234 [(301)921-2992]).

21 Forces and Fluid Mechanics in Medicine Durham, UK 5/81

21-23 1st Int Conf on Cogeneration Washington, D.C. (P. Glekas, Int. Cogeneration Soc., 1111 19th St. NW, Wash., D.C. 20036)

22-23 8th Annual Stanford Synchrotron Radiation Laboratory Users Group Mtg Stanford, Cal. 5/81

22-24 Wrkshp on Pion Production and Absorption in Nuclei Bloomington, Ind. 9/80

25-28 1981 Conf on Electrical Insulation and Dielectric Phenomena Whitehaven, Pa. 5/81

26-29 9th Symp on Engrng Problems of Fusion Res Chicago, Ill. 11/80

26-30 OSA Annual Meeting Kissimmee, Fla. 9/80

26-30 3rd Int Conf on Energy Use Management. ICEUM-III Berlin, FRG 3/81

27-29 2nd Joint Meeting of Hungarian Physical Soc/Austrian Vacuum Soc Brunn am Gebirge, Austria 5/81

27-29 → 52nd Shock & Vibration Symp New Orleans, La. (Shock and Vibration Information Center, Code 5804 Naval Research Lab., Wash., D. C. 20375 [(202)767-2220]).

28-30 Meeting of the APS Nuclear Phys Div Asilomar, Cal. 9/80

28-30 22nd Annual Symp on Foundations of Computer Science Nashville, Tenn. 5/81

30 Dosimetry in Diagnostic Radiology Group London, UK 5/81

5-9 Electrophotography, Applied Electrostatics, Electrostatic Phenomena, Electrostatic Precipitators, Electric Spraying Philadelphia 7/81

7-9 7th Int Conf on Very Large Data Bases Nice, France 5/81

7-9 → 36th Calorimetry Conf [NBS] Gaithersburg, Md. (R. Goldberg, A303 Phys. Bldg., NBS, Washington, D. C. 20234 [(301)921-2894]).

11-15 53rd Annual Mtg of S of R Louisville, Ky. 5/81

11-15 1981 Fall Mtg of the Basic Science Div. of the American Ceramic Society Louisville, Ky. 5/81

11-15 Symp on Computer Simulation of Phase Transformation Involving Solids Louisville, Ky. 5/81

12-15 American Soc for Testing and Materials Emission Spectroscopy Mtg Gaithersburg, Md. 5/81

12-16 • Mtg of the APS Plasma Phys Div New York, N. Y. 9/80

12-16 Int Mtg on Radiobiology of Radium and the Actinides in Man Wisc. 5/81

13-15 6th Annual Conf on Materials for Coal Conversion and Utilization Gaithersburg, Md. 7/81

13-16 Int Symp on Indoor Air Pollution, Health and Energy Conservation Amherst, Mass. 5/81

13-16 Div of Planetary Sci of the AAS Pittsburgh, Pa. 5/81

14-16 Ultrasonics Conf Chicago, Ill. TL

18-21 11th Annual North American Thermal Analysis Soc Mtg New Orleans, La. 3/81

18-23 → Society for Neuroscience 11th Annual Meeting Los Angeles (M. Wilson, Society for Neuroscience, 9650 Rockville Pike, Bethesda, MD 20014 [(301)530-8955]).

19-20 14th Annual Synchrotron Radiation Users Group Mtg Madison, Wis. 5/81

19-23 3rd Neutral Beam Wrkshp Gatlinburg, Tenn. 11/80

19-23 6th Eur Regional Astro Meeting: Sun and Planetary Systems Dubrovnik, Yugoslavia 9/80

19-23 Int Symp on Application of the Dose Limitation Systems in Nuclear Fuel Cycle Facilities and Other Radiation Practices Madrid 5/81

20-21 Symp on Producibility and Quality Assurance of Composite Materials St. Louis, Mo. 5/81

## NOVEMBER 1981

3-6 AVS Symp Anaheim, Cal. 9/80

4-6 → Computer Tomography Scanning of the Brain [Nat. Inst. of Neurological and Communicative Disorders and Strokes] NIH, Bethesda, Md. (M. D. Walker, Federal Building, Room 8A08, 7550 Wisconsin Ave., Bethesda, MD 20205 [(301)496-2581]).

9-12 Int Mtg on Neutron Irradiation Effects in Solids Argonne, Ill. 3/81

10-13 27th Annual Conf on Magnetism and Magnetic Materials Atlanta, Ga. 5/81

16-17 → Symp on Metastable Formation by Ion Implantation [APS] Boston, Mass. (W. W. Havens Jr, 335 E. 45 St. N.Y., N. Y. 10017)

16-18 → Reflecting Optics For Synchrotron Radiation [OSA] Brookhaven Nat. Lab., Upton, N. Y. (SPIE, P. O. Box 10, 405 Fieldston Rd., Beltingham, WA 98227)

16-19 Materials Research Soc Mtg Boston, Mass. 5/81

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- 15-20 **Joint Mtg AAPM and Radiation Soc of N Amer** Chicago, Ill. 3/81
- 17-18 **13th Annual Symp on Optical Materials for High Power Lasers** Boulder, Colo. 3/81
- 17-19 **Electro-Optics/Laser Conf and Expo** Anaheim, Cal. 5/81
- 18-19 **Magnetic and Optical Materials for Information Storage** Boston 7/81
- 18-20 **High Resolution Soft X-Ray Optics** Brookhaven Nat. Lab., Upton, N.Y. (Program Comm., SPIE, P. O. Box 10, Bellingham, WA 98227)
- 19-21 **2nd Int Colloquium on Drops and Bubbles—Science and Systems** Monterey, Cal. (Jet Propulsion Laboratory, 183-901, Pasadena, CA 91109)
- 20 **21st Semiannual Meeting of the Northeast ESCA Users' Group** Wilmington, Del. (P. Bierstedt, DuPont Co., Experimental Sta. B228, Wilmington, DE 19898)
- 22-24 **Mtg of the APS Fluid Dynamics Div** Monterey, Cal. 9/80
- 23-24 **Deformation, Fracture, Wear and Nondestructive Evaluation of Materials: Physics and Practice** New Orleans, La. 7/81
- 23-25 **APS Fall Mtg/Southeastern Section Mtg** New Orleans, La. 9/80
- 23-27 **Seminar on Safety Review and Inspection of Nuclear Power Plants [IAEA]** Vienna (Department of Energy, Wash., D. C. 20585)
- 23-28 **Int Workshop on the Physics of Semiconductor Devices** Delhi, India 5/81
- 24-25 **Quantitative Surface Analysis: Chemical State, Standards & Reference Data** Teddington, UK 5/81
- 30-4 **ASA Annual Mtg** Miami Beach, Fla. 9/80

## DECEMBER 1981

- 1-3 **13th Annual Precise Time and Time Interval Application and Planning** Naval Research Laboratory, Washington, D. C. 7/81
- 1-3 **Symp on Peat as an Energy Alternative** Arlington, VA (D. Punwani, Inst. of Gas Tech., 3424 S. State St., Chicago, IL 60616)
- 3-5 **Mtg of the APS Electron & Atomic Phys Div** New York, N.Y. 9/80
- 4-5 **Symp on the Orion Nebula to Honor Henry Draper** New York, N. Y. 3/81
- 7-11 **6th Int Conf on Infrared and Millimeter Waves** Miami Beach, Fla. 9/80
- 7-11 **AGU Fall Mtg** San Francisco, Cal. 9/80
- 8 **Computer Networking Symp [NBS,IEEE]** Gaithersburg, Md. (R. Toense, B226 Technology Bldg., NBS, Wash., D. C. 20234 [(301)921-3516])
- 9-11 **OSA Optical Fabrication and Testing Workshop** Anaheim, Cal. 5/81
- 11 **69th Physics Exhibition 1981** Paris, France 5/81

- 11-15 **Monopoles in Quantum Field Theory [ICTP]** Miramare, Trieste, Italy (N. S. Craigie, ICTP, P. O. Box 586, I-34100 Trieste, Italy [10/10/81])
- 16-18 **20th IEEE Conf on Decision and Control** San Diego, Cal. 5/81

## JANUARY 1982

- 3-8 **AAAS Mtg** Washington, D. C. 3/81
- 4-9 **1982 Winter Conf on Plasma Spectrochemistry** Orlando, Fl.
- 5-7 **First Int Conf on Non-Potential Interactions and Their Lie-Admissible Treatment** University of Orleans, France 7/81
- 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 [NBS]** San Jose, Cal. (E. Cohen, A308 Technology Bldg., NBS, Wash., D. C. 20234 [(301)921-3786])
- 25-28 **APS/AAPT Annual Joint Mtg** San Francisco, Cal. 11/80
- 25-29 **1982 SPIE Technical Symp** Los Angeles (SPIE Technical Programs Comm. (LA '82) P. O. Box 10, Bellingham, WA 98227 [(206)676-3290]) [11/23/81]
- 25-29 **6th Annual Symp "Energy from Biomass and Wastes"** [Inst. of Gas Tech.] Lake Buena Vista, Fla. (D. L. Klass, Inst. of Gas Tech., 342 S. State St. IIT Center, Chicago, IL 60616 [(312)567-3640])
- 27-29 **9th Annual PCSI Conf [AVS]** Pacific Grove, Cal. (F. Herman K32/281, IBM Res. Lab., 5600 Cottle Rd., San Jose, CA 95193 [(408)256-6245]) [10/16/81]

## FEBRUARY 1982

- 4-6 **Electro-Optics/Laser Int Japan Expo [Dept. of Commerce U. S. Trade Center in Tokyo]** Tokyo (Cahners Expo Group, 222 W. Adams St., Chicago, IL 60606 [(312)263-4866])
- 16-17 **9th Annual Energy Technology Conf and Exp (ET'82)** Washington, D.C. 7/81
- 20-26 **COMPCON Spring 1982** San Francisco, Cal. 5/81
- 22-24 **Adhesion Soc Annual Meeting** Mobile, Ala. (J. Koutsy, Univ. of Wisc., Dept. of Chem. Eng., Madison, WI 53706) [11/1/81]

## MARCH 1982

- 1-3 **Int Workshop on Propagator Methods in the Quantum Theory of Matter** Palm Coast, Fla. 7/81

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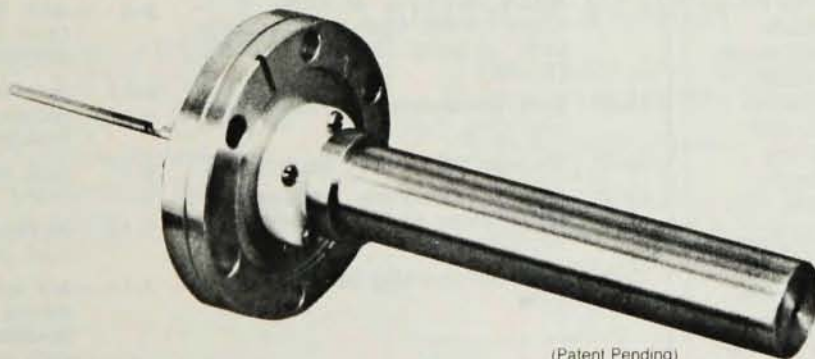
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- 1-3 → **9th Austin Symp on Molecular Structure** Austin (J. E. Boggs, Dept. of Chem., Univ. of Texas, Austin, TX 78712)
- 4-6 **Int Symp on Quantum Biology and Quantum Pharmacology** Palm Coast, Fla. 7/81
- 4-6 **Int Symp on the Electronic Structure 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
- 18-24 **4th Cong of the Int Rehabilitation Medicine Assoc** San Juan, P. R. 5/81
- 20-22 → **Mechanical Failures Prevention Group** [NBS] Gaithersburg, Md. (H. Burnett, B264 Materials Bldg., NBS, Wash., D. C. 20234 [(301)921-2992])
- 26-29 **APS General Meeting** Washington, D. C. 5/81
- 26-30 **103rd Mtg of the ASA** Chicago, Ill. 5/81

## MAY 1982

- 8-10 → **Laser Techniques for Extreme Ultraviolet Spectroscopy** [OSA] Boulder, Co. (Ultraviolet Spectroscopy, OSA, 1816 Jefferson Pl. NW, Washington, D. C. 20036 [(202)223-8130]) [11/30/81]
- 8-12 **APS Gen Meeting** Dallas, Tex. 5/81
- 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
- 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 Science and Industry** Washington, D. C. 5/81
- 15-17 → **Human Factors In Computer Systems** [NBS] Gaithersburg, Md. (W. Osborne, A265 Technology Bldg., NBS, Wash., D. C. 20234 [(301)921-3485])
- 22-25 **2nd European Physical Soc Condensed Matter Div General Conf** 5/81
- 22-26 → **4th ASTM-Euratom Symp** [NBS] Gaithersburg, Md. (C. Eisenhower, C310 Radiation Physics Bldg., NBS, Wash., D. C. 20234 [(301)921-2658])
- 25-26 → **Int Conf on Alloy Sci** [Inst. of Materials Sci.] Univ. of Conn. (P. C. Clapp U-136, Dept. of Metallurgy, Univ. of Conn., Storrs, CT 06268) [1/1/82]
- 25-27 **Spin Excitations in Nuclei** Telluride, Colo. 7/81
- 29-31 **Vacuum '82** Chester, England 5/81
- 29-2 **3rd Int Congress of European Association of Thermology** Bath, UK 5/81
- 29-2 **ACA General Mtg** Gaithersburg, Md. 5/81
- 7-8 → **APS Spring Meeting** Akron, Ohio (B. C. Clark, Dept. Phys., 174 W. 18th Ave; Columbus OH 43210) [4/16/82]
- 10-14 → **Int Symp on Management of Wastes from Uranium Mining and Milling** [IAEA] Albuquerque (Department of Energy, Wash., D. C. 20585) [9/11/81]
- 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** [IEEE Nuclear and Plasma Sciences Soc., NRC of Canada, Carleton Univ.] Ottawa (L. Bagnée, Conf. Services, NRC, Ottawa, Canada [(613)993-9009])
- 17-21 **OSA Spring Conf on Applied Optics** Rochester, N.Y.
- 25-27 **Electro '82** Boston, Mass. 5/81
- 25-30 → **2nd Int Symp on Radiation Phys** Universiti Sains, Malaysia (A. M. Ghose, School of Phys., Univ. of Sci., Minden Penang, Malaysia)

## JUNE 1982

- 6-9 → **AAS Meeting** Troy, N. Y. (AAS, 1816 Jefferson Pl. NW, Wash., D.C. 20036) [4/8/82]
- 6-11 **3rd Int Symp on Radiation Protection: Advances in Theory and Practice** Inverness, Scotland 5/81
- 6-11 **ANS Annual Mtg** Los Angeles, Cal. 5/81
- 7-10 **National Computer Conf** New York, N. Y. 5/81
- 7-11 → **3rd Int Symp on Magnetic Resonance in Colloid and Interface Science** Torun, Poland (A. Gutsze, Inst. of Phys., Nicholas Copernicus Univ. ul. Grudziadzka 5, 87-100 Torun, Poland)
- 9-15 **Int Conf on Plasma Physics, Joint Conf of 5th Kiev Int Conf or Plasma Theory and 5th Int Cont on Waves and Instabilities in Plasmas** Goteborg, Sweden 5/81
- 13-18 **Int Microwave Symp** Dallas, Tex. 5/81
- 14-16 → **Physical Electronics Conf** [APS] Atlanta, Ga. (W. W. Havens Jr, 335 E. 45 St. N. Y., N. Y. 10017)
- 14-17 **Annual Mtg of Society of Nuclear Medicine** Miami Beach, Fla. 5/81

## APRIL 1982

- 4-8 **6th Int Conf on Positron Annihilation** Arlington, Tex. 5/81
- 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
- 16-17 → **Teaching Sound and Musical Acoustics** [AAPT, Northern Cal. Sec.] Sacramento, Ca. (D. E. Hall, Cal. State Univ., 6000 J St., Sacramento, CA 95819)

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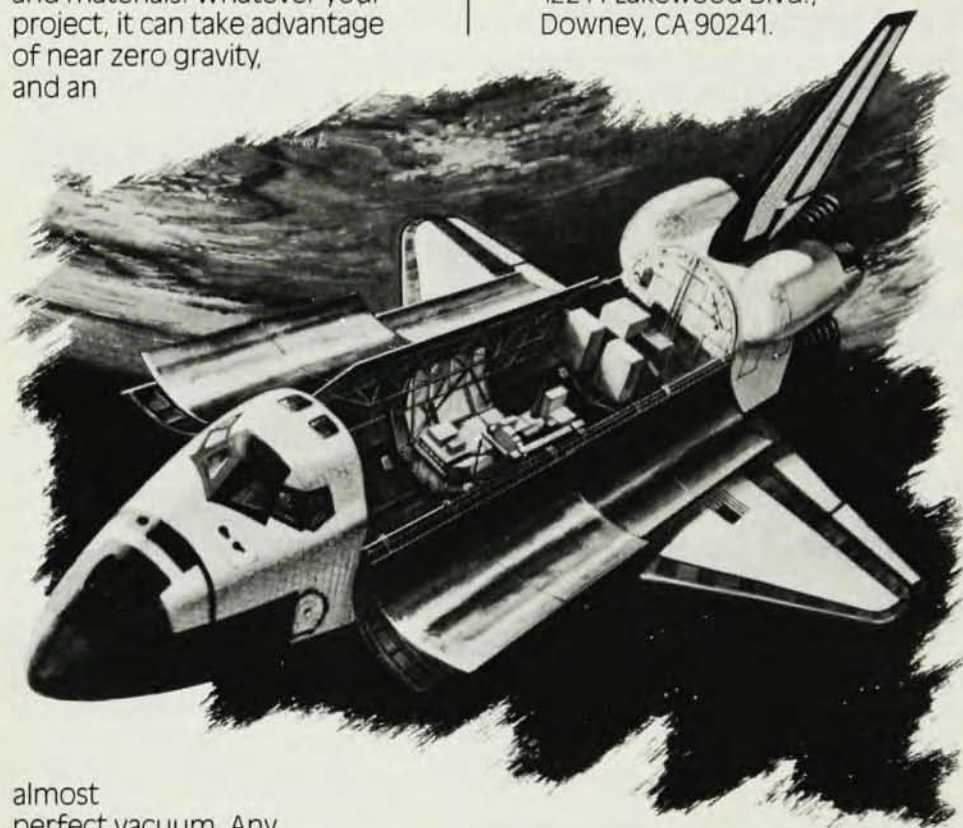
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14-17 → **4th Int Conf on Physico-Chemical Hydrodynamics** [New York Acad. of Sci.] New York (B. Levich, City College of N.Y., N.Y., N.Y. 10031 [1/15/82])

15-17 **Int Microwave Symp** Los Angeles, Cal. 5/81

22-25 → **12th Int Quantum Electronics Conf** [European Phys. Soc., OSA, IEEE, APS] Munich (OSA, 12th IQEC, 1816 Jefferson Pl., N. W., Wash., D. C. 20036) [12/31/81]

23-25 → **AAPT Summer Meeting** So. Oregon State College (R. P. Bauman, Dept. of Phys., Univ. of Alabama, Birmingham AL 35294) [3/30/82]

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

## JULY 1982

5-7 → **Int Symp on Applications of Laser-Doppler Anemometry to Fluid Mechanics** Lisbon (D. F. G. Durao, Dept. of Mechanical Eng. Instituto Superior Tecnico, Avenida Rovisco Pais, Lisbon 1, Portugal) [1/15/82]

12-14 **Int Conf on Biomedical Polymers** 7/81 9/81

12-16 → **28th Int Union of Pure & Applied Chem Macromolecular Symp** Amherst, Mass. (J. C. W. Chien, Graduate Research Center, rm 820, Univ. of Massachusetts, Amherst, MA 01003)

20-23 → **3rd Joint MMM-Intermag Conf** [APS] Montreal (W. W. Havens Jr, 335 E. 45 St. N. Y., N. Y. 10017)

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 Annual Mtg of AAPM** New Orleans, La. (Executive Sec. AAPM, 335 E 45th St., New York, N. Y. 10017)

2-3 → **6th Int Symp on the Phys and Chem of Ice** [APS] Rolla, Mo. (W. W. Havens Jr, 335 E. 45 St. N. Y., N. Y. 10017)

9-13 → **Int Conf on X-ray and VUV Synchrotron Radiation Instrumentation** Hamburg-DESY, FRG (B. Buras, Riso Nat. Lab., DK-4000 Roskilde, Denmark)

15-20 → **ACA General Mtg** San Diego, Cal. (S. T. Freer, Chem. Dept., Univ. of Cal., San Diego, La Jolla, Cal. 92093)

16-20 → **13th Australian Spectroscopy Conf** [Australian Acad. of Sci.] La Trobe Univ., Melbourne, Australia (J. B. Peel, Dept. of Phys. Chem., La Trobe Univ., Bundoora, Victoria 3083, Australia)

19-21 → **Nordic Conf on Surface Sci** Tampere, Finland (M. Pessa, Tampere Univ. of Technology, P. O. Box 527, 33101 Tampere 10, Finland)

- 23-27 → **Int Conf on X-Ray and Atomic Inner-Shell Physics** Eugene, Ore. (B. Crasemann, Phys. Dept., Univ. of Oregon, Eugene, Ore. 97403)
- 25-30 → **7th Sagamore Conf on Charge, Spin and Momentum Densities** Nikko, Japan (M. J. Cooper, Dept. of Phys., Univ. of Warwick, Coventry, Warwick, CV4 7AL UK)
- 27-30 → **2nd Int Symp on Molecular Beam Epitaxy and Related Clean Surface Techniques** Lake Kawaguchi, Japan (MBE-CST-2, R. Ueda, Dept. of Appl. Phys., School of Science, Waseda Univ. 3-4-1 Ohkubo, Shinjuku-ku, Tokyo, Japan)
- 29-2 → **3rd World Cong of Nuclear Medicine and Biology** Paris, France (C. Raynaud, WFNMB, B. P. 28, F 91403, Orsay, France) [12/1/81]
- 29-3 → **European Crystallographic Mtg** Jerusalem, Israel (J. Bernstein, ECM-7, Dept. of Chem., Ben-Gurion Univ. of the Negev, Beersheva, Israel)
- 29-4 → **4th Europhysical Topical Conf: Lattice Defects in Ionic Crystals** Dublin, Ireland (J. Corish, Dept. of Chem., Univ. College, Belfield, Dublin 4, Ireland)

## SEPTEMBER 1982

- 1-3 → **Yamada Conf on Neutron Scattering of Condensed Matter** Tokyo, Japan (Y. Itoh, Inst. for Solid State Physics, Univ. of Tokyo, Toppongi, Minato-Ku, Tokyo 106, Japan)
- 1-8 → **9th Int Conf on Plasma Phy and Controlled Nuclear Fusion Res** [IAEA] Baltimore (Department of Energy, Wash. D. C. 20585) [3/12/82]
- 5-11 → **6th Int Conf on Medical Physics & 13th Int Conf on Med & Biological Engineering** [IOMP, IFMBE] Hamburg, FRG (Secretariat, Hamburg Messe and Congress, Cong. Org, Postfach 30 23 60, D-2000 Hamburg 36, FRG)
- 6-10 → **Int Conf on Nuclear Data for Science and Technology** Antwerp, Belgium (K. H. Bockhoff, C.E.C., J.R.C., C.B.N.M., B-2440 Geel, Europawijk, Belgium)
- 6-10 → **Int Conf on Magnetism** Kyoto, Japan (J. Kanamori, Faculty of Sci., Osaka Univ., Toyonaka 560, Japan)
- 6-17 → **Diagnostics for Fusion Reactor Conditions** Italy (E. Sindoni, Istituto di Fisica, Via Celoria 16, I-20133 Milano, Italy)
- 7-9 → **4th European Study Conf on Low Energy Molecular Collisions** Nijmegen, The Netherlands (J. Reuss, Fysisch Lab., Katholieke Univ. 6525 ED Nijmegen, The Netherlands) [5/1/81]
- 8-10 → **Optics '82** [Optical Group of the Institute of Physics] Univ. of Edinburgh (IOP 47 Belgrave Sq. London SW1X 8QX UK)
- 13-17 → **IOP Conf on the Neutron and its Applications** Cambridge, England (Meetings Officer, IOP, 47 Belgrave Sq., London SW1X 8QX England)
- 13-17 → **12th Symp on Fusion Technology** Jülich, FRG (Conrads, Institut für

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Plasmaphysik, Kernforschungsanlage, Postfach 1913, D-5170 Jülich, FRG)

13-17 → **Int Conf on Nuclear Power Experience** [IAEA] Vienna (Department of Energy, Wash. D. C. 20585) [11/13/81]

14-16 → **5th Int Conf on Ternary and Multinary Compounds** Cagliari, Italy (G. Mula, Istituto di Fisica Dell'Università, Via Ospedale, 72, 09100 Cagliari, Italy [4/15/82])

20-24 → **10th Molecular Crystal Symp** St. Jovite, Quebec (D. Chartrand, NRC, Ottawa, Canada KIA 0R6)

## OCTOBER 1982

4-7 → **Symp on Advances and Trends in Structural and Solid Mechanics** [George Washington Univ., NASA] Washington, DC (A. K. Noor, Mail Stop 246, George Washington Univ. NASA Langley Res. Center, Hampton, VA 23665 [(804)827-2897])

14-16 → **APS Nuclear Phys Div** Amherst, Mass. (W. W. Havens Jr, 335 E. 45 St., N. Y., N. Y. 10017)

18-22 → **OSA Annual Mtg** Tucson, Ariz. (OSA, 1816 Jefferson Pl. N. W., Washington, D. C. 20036 [(202) 223-8130])

19-23 → **Ceramitec '82** Munich, FRG (W. Marzin, Münchener Messe- und Ausstellungsgesellschaft, Messege-lände, Postfach 12 10 09, D-8000 München 12, FRG)

28-30 → **Southeastern Section of APS** Lexington, Ky. (W. W. Havens Jr., 335 E. 45 St., New York, N.Y. 10017)

28-30 → **APS Particles & Fields Div** College Park, Md. (W. W. Havens Jr, 335 E. 45 St., N. Y., N. Y. 10017)

## NOVEMBER 1982

1-5 → **APS Plasma Phys Div** New Orleans, La. (W. W. Havens Jr, 335 E. 45 St., New York, N. Y. 10017)

3-5 → **APS Fall Meeting** Philadelphia (W. W. Havens Jr., 335 E. 45 St. N. Y., N. Y. 10017) [8/20/82]

8-12 → **ASA 104th Meeting** Orlando, Fla. (B. Goodfriend, 335 E. 45 St., New York, N. Y. 10017)

16-19 → **29th Nat Vacuum Symp** [AVS] Baltimore, Md.

21-23 → **APS Fluid Dynamics Div** New Brunswick, N. J. (W. W. Havens Jr, 335 E. 45 St., New York, N. Y. 10017)

## DECEMBER 1982

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

## JANUARY 1983

24-27 → **APS/AAPT Annual Mtg** New York (W. W. Havens Jr., 335 E. 45 St., New York, N. Y. 10017)

## MARCH 1983

21-25 → **APS March Mtg** Los Angeles (W. W. Havens Jr., 335 E. 45th St., New York, N. Y. 10017)

## MAY 1983

8-14 → **ASA 105th Mtg** Cincinnati, Ohio (B. Goodfriend, 335 E. 45th St., New York, N.Y. 10017)

26-31 → **AAAS Ann Mtg** Washington, D.C. (W.D. Carey, AAAS, 1776 Massachusetts Ave. NW, Washington, D.C. 20036)

29-3 → **4th Int Conf on Fluidization** [Engineering Found. Conf.] Kashikojima, Japan (S. Cole, Engineering Found. Conf. 345 E. 47 St., N. Y., N. Y. 10017 [(212)644-7835]) [12/15/81]

31-3 → **Symp on Microwave Theory and Technique** [IEEE] Boston, Mass. (H. Howe, Microwave Theory Association, Burlington, Mass. 01803)

## JULY 1983

31-4 → **AAPM Ann Mtg** New York (A. Junge, 335 E. 45th St., New York, N. Y. 10017)

## AUGUST 1983

7-12 → **8th Canadian Theoretical Chem Symp** Dalhousie Univ., Halifax, Nova Scotia (R. K. Boyd, Dept. of Chem., Dalhousie Univ., Halifax, N. S.)

29-3 → **16th Int Conf on Phenomena in Ionized Gases** Duesseldorf, FRG (W. Böttcher, Inst. Plasma Phys., University, Callinstr. 38, D-3, Hannover, FRG)

## SEPTEMBER 1983

12-16 → **7th Int Conf on Crystal Growth** Stuttgart FRG (K. W. Benz Sec. ICCG-7, Kristalllabor, Physikalisches Institut der Universität, Pfaffenwaldring 57, 7000 Stuttgart 80, FRG)

16-20 → **Physics of Plasma Close to Thermonuclear Conditions** Varenna, Italy (E. Sindoni, Istituto di Fisica, Via Bassini 15, I-20133 Milano, Italy)

25-30 → **5th European Mtg on Ferroelectricity** Torremolinos, Spain (B. Jimenez, Centro de Fisica Aplicada "L. Torres Quevedo," Serrano 144, Madrid 6, Spain) □

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Pulses to Half Power <sup>③</sup> (Typical)	1200	9000	25000	7000
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