

# NBS Technicalendar

U.S. DEPARTMENT OF COMMERCE  
National Bureau of Standards

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to all  
Employees*

The NBS Technicalendar is issued weekly on Thursdays covering events scheduled for the following week. Listed are activities of interest primarily to the NBS staff. Items for inclusion should be in writing in proper format (see format of items listed herein) and *MUST* be received by *noon on Wednesday*. Items to be included and requests for copies of this calendar should be sent to Room A607, Administration Building, attention Mrs. Betty L. Burris, Editor (Phone: 301-921-2264).

All lectures and meetings are open unless otherwise stated.

February 9 to February 13, 1981

## MEETINGS AT THE NATIONAL BUREAU OF STANDARDS Gaithersburg, Maryland

U. S. DEPARTMENT OF COMMERCE

PUBLIC WORKSHOP

Critical Materials Needs

in the

Aerospace Industry

9-10 February 1981

Green Auditorium

Registration: 8:30 a.m.  
National Bureau of Standards  
Gaithersburg, Md. 20760

For further information, contact Dr. John B. Wachtman, Jr.  
(301)921-2891, or Dr. Bruce Steiner (301) 921-2892.

- 2/9--Monday 9:00 a.m. GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM (GIDEP): An Explanation of GIDEP and its Relationship to NBS, Various Speakers. Lecture Rm. D, Administration Bldg. (NBS contact K. Edinger, 921-2805.)
- 2/9--Monday 10:30 a.m. CHEMICAL STABILITY AND CORROSION DIVISION SEMINAR: Corrosion Resistant Canisters for Nuclear Waste Isolation, N. J. Magnani, Sandia National Lab., Albuquerque, NM. Rm. A62, Metrology Bldg. (NBS contact M. L. Seebode, 921-2847.)
- 2/9--Monday 1:00 p.m. CENTER FOR BUILDING TECHNOLOGY SEMINAR: Considerations in the Development of a Comprehensive Structural Engineering Design Database, W. Rasdorf, Carnegie Mellon Univ. CBT Conference Rm. B119, Building Research Bldg. (NBS contact J. Harris, 921-2346 OR R. Wright, 921-3377.)
- 2/9--Monday 2:00 p.m. METALLURGY DIVISION INFORMAL SEMINAR: Metallurgy of Free Machining Steels and Steel Making for Machinability, S. Ramalingam, Mechanical Engineering Dept., Georgia Institute of Technology. Rm. B62, Metrology Bldg. (NBS contact A. W. Ruff, 921-2966.)
- 2/10--Tuesday 10:00 a.m. SCIENTIFIC COMPUTING DIVISION SEMINAR: Error Estimates of a Gaussian Rule When Used in an Automatic Routine - Kronrod Schemes, G. Monegato, Instituto Matematico, Politecnico di Torino, Italy. Rm. A62, Metrology Bldg. (NBS contact D. Kahaner, 921-2905.)
- 2/10--Tuesday 10:30 a.m. ATOMIC AND PLASMA RADIATION SEMINAR: The Spectroscopy of AlCl in Absorption, Emission, and Laser-Induced Fluorescence, R. Contolini, Chemistry Dept., Ohio State Univ. Rm. B165, Physics Bldg. (NBS contact D. Kelleher, 921-2356.)
- 2/10--Tuesday 1:30 p.m. CENTER FOR APPLIED MATHEMATICS EXPOSITORY SEMINAR: Data Smoothing Using Splines Under Tension, A. K. Cline, Dept. of Comp. Sci., Univ. of Texas at Austin. Rm. B119, Polymer Bldg. (NBS contact M. Cordes, 921-2541 OR 921-2631.)
- 2/10--Tuesday 1:30 p.m. CENTER FOR ABSOLUTE PHYSICAL QUANTITIES MEETING: A Novel Ultra-High Resolution Frequency Meter: Applications and Implications, J. J. Snyder, Quantum Metrology Group, NBS. Rm. B165, Physics Bldg. (NBS contact R. Warden, 921-2061.)
- 2/10--Tuesday 1:30 p.m. THERMOPHYSICS DIVISION COLLOQUIUM: Recent Progress in Interaction Induced Spectroscopy, J. D. Poll, Univ. of Guelph, Guelph, Ontario, Canada. Rm. B315, Physics Bldg. (NBS contact G. Birnbaum, 921-3331.)
- 2/10--Tuesday 2:00 p.m. JOINT GAS AND PARTICULATE SCIENCE DIVISION AND CHEMICAL KINETICS DIVISION COLLOQUIUM: A Chemical Instability in the Stratosphere, J. Fox, Univ. of Illinois. Rm. A62, Metrology Bldg. (NBS contact J. Elkins, 921-2886.)
- 2/11--Wednesday 10:00 a.m. CENTER FOR ANALYTICAL CHEMISTRY COLLOQUIUM SERIES: Prospectus for Analytical Chemistry in Clinical Analysis Laboratories, M. A. Evenson, Univ. of Wisconsin. Rm. B119, Polymer Bldg. (NBS contact S. Margolis, 921-2867.)



MEETINGS AT THE NATIONAL BUREAU OF STANDARDS  
Gaithersburg, Maryland-----continued

- 2/11--Wednesday 10:30 a.m. SPECIAL SEMINAR: A Report and Discussion on the BIPM Meeting on Expression of Uncertainties, R. Collé, Center for Radiation Research Div., NBS. Rm. A62, Metrology Bldg. (NBS contact R. Collé, 921-2551.)
- 2/11--Wednesday 11:00 a.m. CENTER FOR APPLIED MATHEMATICS COLLOQUIUM ON MATHEMATICAL MODELING IN SCIENCE AND ENGINEERING: Computational Fluid Dynamics - Some Remarks, C. K. Chu, Dept. of Mechanical Engineering and Plasma Physics Lab., Columbia Univ. Lecture Rm. B, Administration Bldg. (NBS contact R. Rehm, 921-2631.)
- 2/12--Thursday 10:00 a.m. SCIENTIFIC COMPUTING DIVISION-SCIENTIFIC SOFTWARE TUTORIALS: The MINITAB Statistical Computing System, B. F. Ryan, Dept. of Statistics, Pennsylvania State Univ. Lecture Rm. B, Administration Bldg. (NBS contact D. Kahaner, 921-3395.)
- 2/12--Thursday 10:30 a.m. CENTER FOR APPLIED MATHEMATICS LECTURE: Computing the Kalman Decomposition, D. L. Boley, Computer Science Dept., Stanford Univ. Rm. A434, Administration Bldg. (NBS contact B. H. Colvin, 921-2541.)
- 2/12--Thursday 1:30 p.m. STATISTICAL PHYSICS SEMINAR: Climatic Sensitivity and the Fluctuation Dissipation Theorem, T. L. Bell, NASA, Greenbelt, MD. Lecture Rm. B, Administration Bldg. (NBS contact R. D. Mountain, 921-2831.)
- 2/13--Friday 2:00 p.m. NUCLEAR AND RADIOLOGICAL PHYSICS SEMINAR: Particles - Crystals - Photons (The Interaction of Charged Particles with Crystals), G. M. Temmer, Dept. of Physics, Rutgers State Univ., New Brunswick, NJ. Conference Rm. C301, Radiation Physics Bldg. (NBS contact E. G. Fuller, 921-2625.)

MEETINGS ELSEWHERE OF INTEREST TO NBS PERSONNEL

- 2/9--Monday 3:30 p.m. NASA-GODDARD SPACE FLIGHT CENTER ENGINEERING COLLOQUIUM: World Standards for Universal Computer Networking, R. des Jardins, Computer Technology Associates/Calculon. Auditorium, Bldg. 3, Goddard Space Flight Center, Greenbelt, MD. (For further information, call K. Buswell, 344-8942.)
- 2/9--Monday 7:45 p.m. AMERICAN SOCIETY FOR METALS WASHINGTON, DC CHAPTER MEETING: Tribological Coatings - Hard and Soft, S. Ramalingam, Mechanical Engineering Dept., Georgia Institute of Technology. Sir Walter Raleigh Inn, 8120 Gatehouse Road, Falls Church, VA. (For further information, call A. W. Ruff, 921-2966.)
- 2/10--Tuesday 12:00 NOON. U. OF MD. STATISTICAL PHYSICS SEMINAR: Some Recent Developments in Critical and Tricritical Spinodal Decomposition, J. D. Gunton, Temple Univ. Rm. 1115, Molecular Physics Bldg., University of Maryland, College Park, MD. (For further information, call J. V. Sengers, 454-4117 OR J. R. Dorfman, 454-4489.)
- 2/10--Tuesday 4:00 p.m. U. OF MD. DEPARTMENT OF PHYSICS AND ASTRONOMY COLLOQUIUM: Comparative Planetology and Space Exploration, H. Frey, Goddard Space Flight Center, NASA. Rm. Z-1410, Physics Bldg, University of Maryland, College Park, MD.
- 2/10--Tuesday 4:15 p.m. JOHNS HOPKINS UNIVERSITY DEPARTMENT OF CHEMISTRY COLLOQUIUM: State-to-State Reactive Dynamics of Vibrating Molecules, G. Pruett, Univ. of Pennsylvania. Remsen Hall, Rm. 221, Homewood Campus, Johns Hopkins Univ., Baltimore, MD. (For further information, call 301-338-7423 OR 8425.)
- 2/10--Tuesday 4:15 p.m. GEORGETOWN UNIVERSITY DEPARTMENT OF CHEMISTRY COLLOQUIUM: Free Radical Ring Opening Polymerization, W. F. Bailey, University of Maryland. Rm. 282, Reiss Science Bldg., Georgetown Univ., Washington, DC. (For further information, call C. F. Hammer, 202-625-4065 OR 4028.)
- 2/11--Wednesday 4:00 p.m. JHU-CENTER FOR MATERIALS RESEARCH MEETING: Materials for Optical Communication, R. Laudise, Physical and Inorganic Chemistry Research Lab., Bell Laboratories. Maryland Hall, Rm. 110, Johns Hopkins Univ., Baltimore, MD. (For further information, call E. Horowitz, 301-338-7916.)
- 2/11--Wednesday 4:15 p.m. GEORGETOWN UNIVERSITY DEPARTMENT OF CHEMISTRY SEMINAR: Electron Spectroscopic Evidence for Non-Conjugated  $\pi$ -Interactions, R. McDiarmid, National Institute of Arthritis, Metabolism, and Digestive Diseases. Rm. 264, Reiss Science Bldg., Georgetown Univ., Washington, DC. (For further information, call C. F. Hammer, 202-625-4065 OR 4028.)
- 2/12--Thursday 5:00 p.m. THE ELECTROCHEMICAL SOCIETY, INC. AND THE CHEMICAL SOCIETY OF WASHINGTON JOINT MEETING: Anion Analysis by Ion Chromatography at NBS, W. Koch, NBS; In-Vivo Electrochemical Measurement Techniques in Brain Tissue, H-Y. Cheng, Univ. MD; Investigation of Sulfur Dioxides and Thionyl Chloride Cells, W. P. Kilroy, Naval Weapons Ctr.; Applications of Ion-Conducting Ceramics in High Temperature Electrochemistry, K. H. Stern, Naval Res. Lab.; The Electrical Conductivity of Polyphenylacetylene, Its Derivatives and Complexes, P. Waters, Am. Univ.; Chemical Approaches to Solar Energy Conversion, M. S. Wrighton, Mass. Inst. Tech. All talks will be in the Science East Building except for the last one which will be in the Humanities Building, Montgomery College, Rockville, Maryland. (For further information contact George Marinenko (301) 921-2883.)
- 2/13--Friday 5:00 p.m. GEORGETOWN UNIVERSITY DEPARTMENT OF BIOLOGY SEMINAR: Bacterial-Protozoan Interactions in Offshore Dump Sites, T. K. Sawyer, National Marine Fisheries Lab. Rm. 103, Reiss Science Bldg., Georgetown Univ., Washington, DC.

U. OF MD. DEPT. OF PHYSICS & ASTRONOMY WEEKLY MEETINGS---continued:  
COLLOQUIA

Tuesday, February 10  
4:00 PM, Room Z-1410  
Physics Building

PHYSICS  
"Comparative Planetology and Space  
Exploration"  
Dr. Herbert Frey, NASA, Goddard Space Flight Ctr.

Wednesday, February 11  
3:30 PM, Room 1113  
Computer-Space Sciences Bldg.

ASTRONOMY  
"Submillimeter Wave Survey of the  
Galactic Plane"  
Dr. M. Hauser, NASA, GSFC