

## RESEARCH RESOURCES

*A summary of new products and services for materials research...*



**Digital Thermometers:** Single-channel and eight-channel digital thermometers with SOFTCAL software can be coupled with DT-470 diode sensors for operation from  $-272^{\circ}\text{C}$  to  $202^{\circ}\text{C}$ . System accuracy is  $\pm 0.5^{\circ}\text{C}$  or better from  $-243^{\circ}\text{C}$  to  $100^{\circ}\text{C}$  and within  $0.1^{\circ}\text{C}$  in an  $80^{\circ}\text{C}$  band around the calibration point. Thermometers can scan multiple sensors, monitor alarm points, and transmit to a printer. Lake Shore Cryotronics, 64 East Walnut Street, Westerville, OH 43081; (614) 891-2243.

**Superconductivity Index:** Comprehensive guide provides names and access data for major researchers, institutions, and companies involved in the superconductor field worldwide. It is available in printed format (\$125) or floppy disk (\$225) in Mi-

crosoft File for Macintosh or dBase III for IBM compatible machines. Howard Associates, 156 Mountain Avenue, Summit, NJ 07901; (201) 277-4312.

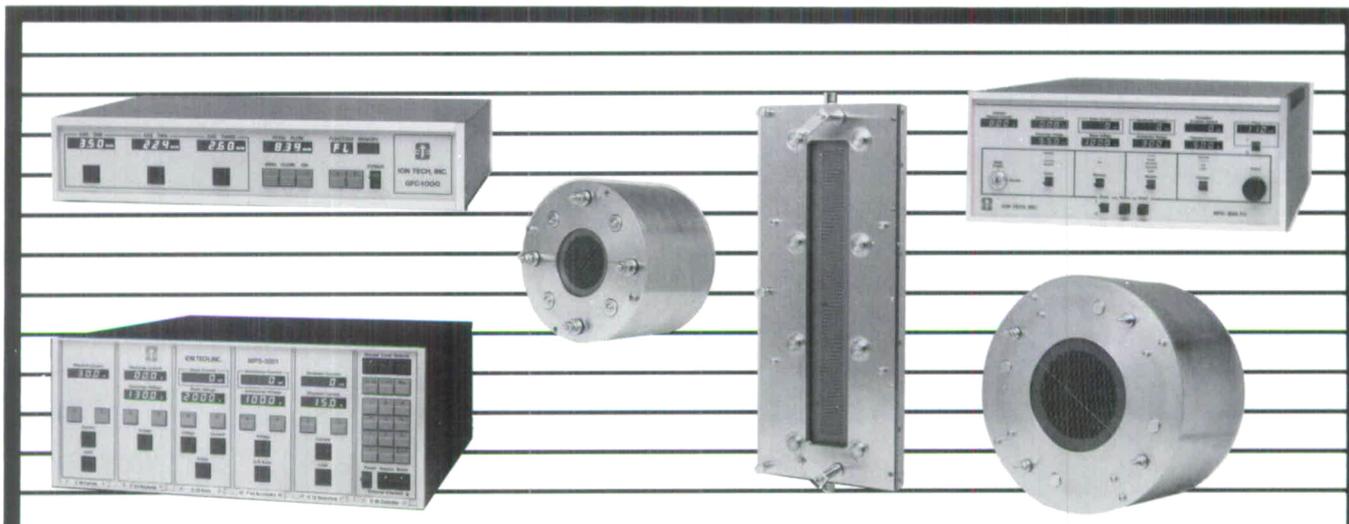
**National Materials Advisory Board Reports:** The following newly published NMAB reports can be obtained from NMAB as long as initial supplies last. If the supply is gone, you will be notified if other copies are available elsewhere.

- Achieving Leadership in Materials Technology for the Army of the Future
- Agenda for Advanced Electrochemical Corrosion Science and Technology, NMAB 438-2
- Ceramic Technology for Advanced Heat Engines, NMAB-431
- Concrete Durability: A Multibillion-Opportunity, NMAB-437
- Control of Welding Processes, NMAB-421
- *In Situ* Characterization of Electrochemical Processes, NMAB 438-3
- New Horizons in Electrochemical Science and Technology, NMAB 438-1
- The Place for Thermoplastic Composites in Structural Components, NMAB-434
- The Tribology of Ceramics, NMAB-435

National Materials Advisory Board, National Research Council, 2101 Constitution Avenue, Washington, DC 20418.

**Acid Catalysts Study:** *Characteristics and Applications of Acid Catalysts*, systematically organized for both novice and experienced researchers, critically examines the use of organic solid acids as catalysts. The structure and properties of acid catalysts are described. In addition, the study focuses on the type of chemical transformation to be accomplished and compares performance with other acid catalysts. Modification of resin acidity is also explored, and the study concludes with discussion of organic resin acids as bifunctional catalysts. Price: \$7000. Catalytica Studies Division, 430 Ferguson Drive, Building 3, Mountain View, CA 94043; (415) 960-3000.

**Excimer Lasers:** LPX series uses a fiber-optic local area network (LAN) containing its own microprocessor to connect distributed intelligent control modules. The LAN eliminates long wires from the centralized controller to valves, sensors, and switches. The single control line does not pick up or transmit EMI, providing noise-free communication. Easy-access modular head allows rapid replacement of six interchangeable modules. Lambda Physik, Inc., 289 Great Road, Acton, MA 01720; (617) 263-1100. □



# Ion Tech: Your One Source

● Complete line of round and linear broad beam ion sources ● Microprocessor-based power supplies with RS-232 port for remote control, datalogging and errorlogging ● Sources operate with beam energies ranging from 50-2000eV ● Sources are UHV compatible, run on inert or reactive gas and retrofit easily by mounting internally or on a chamber flange ● GFC-1000 Gas Flow Control System provides integrated gas flow control with source control for optimum operation



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