

**Workshop on Diamond Films to be Held in Ohio**

A Workshop on the Science and Technology of Diamond Thin Films has been organized by Case Western Reserve University and the American Carbon Society. The Workshop, which will be conducted in the format of a Gordon Conference, will be held May 20-24, 1990 at the Quail Hollow Resort and Conference Center in Concord, Ohio.

The Workshop will focus on two topical themes—fundamental mechanisms of nucleation and growth, and industrial applications—with a distinguished group of 23 speakers giving tutorial lectures. Among the speakers are Boris Deryagin of the Physical Chemistry Institute of the Academy of Sciences of the USSR and Nobuo Setaka of the National Institute for Research in Inorganic Materials, Tsukuba, Japan. Deryagin will give an "Overview of Low-Pressure Diamond Synthesis Research at the Institute of Physical Chemistry." Setaka will discuss the "Present and Future of Diamond Research." Among other invited speakers from abroad is Benno Lux of the Technical University of Vienna, who will speak on "Low-Pressure Synthesis of Hard Coatings"

In addition to the invited tutorial lectures, contributed poster papers are being solicited. Each afternoon of the Workshop will be devoted to the poster sessions and to organized but informal discussions of the major topical themes. Participants can also use the championship golf course, tennis courts, and hiking trails available at Quail Hollow.

Information and registration materials can be obtained from: Prof. John C. Angus, Department of Chemical Engineering, Case Western Reserve University, Cleveland, OH 44106; telephone (216) 368-4133; fax (216) 368-3016. □

**HIGH PERFORMANCE FURNACES FOR HIGH PERFORMANCE MATERIALS**



**Rotovac™ Furnaces**  
Powder Conditioning  
To 2300° C

Carbothermic processes, Calcining, Deoxidizing, Purifying, Vacuum, Inert Gas, Hydrogen. Rotary retort tumbles powders for uniform properties. Laboratory to production sizes. Brochure RV-1

**System VII/Super VII™ Multipurpose Furnaces**  
500-3000° C

Melt, braze, sinter, heat treat. Vacuum, Hydrogen, Inert Gas. 4" d. x 8" h., 6" x 6" x 15", 8" x 8" x 20". Metal & Graphite Hot Zones, Gas & Liquid Quench. Brochure S-7



**Hot Press Furnaces**  
Powder Compaction.  
Diffusion Bonding.  
To 2300° C

Quick Access. Ratings to 400 tons. Resistance or Induction Heating. Hot ejection. Temperature/Press force programming. Manual, Automatic and Computer control. Laboratory to production sizes. Brochure HP-1A



**Brazing, Heat Treating & CVD Furnaces**  
1000° C, 1320° C, 1650° C & 2300° C

Horizontal & Vertical Models. Vacuum, Hydrogen, Inert Gas. Rapid Load Cooling. Automatic Programming. Computer Control. Laboratory to production sizes. Bulletin WH-1



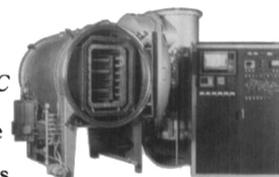
**Sinterbar™ Furnaces**  
To 2300° C

Multi-Mode processing, binder removal, sintering and 100 bar pressure consolidation in one cycle. For PM and ceramics. Metal and Graphite Hot Zones. Laboratory to production sizes. Bulletin SB-1



**Injectavac™ & Sintervac® Furnaces**  
1400° C, 1650° C & 2300° C

Combined cycle debinding and sintering; metals, alloys, ceramics. Vacuum & process gas. Metal injection molded parts processing. Automatic program. Computer option. Bulletins IV-1 and SV-3



Call our Process Evaluation Laboratory to run samples, test processing ideas, specify new furnaces. Choice of leading materials and parts producers. For more information: Telephone 617-666-5450 Fax 617-776-8605



**Vacuum Industries, Inc.**

5 Middlesex Avenue, Somerville, MA 02145

**C-MRS INTERNATIONAL '90 ■ June 18-22, 1990 ■ Beijing, China**

**Errata:** The dates for the C-MRS International Meeting in Beijing, China, were incorrectly listed on p. 52 in the September *MRS Bulletin*. The correct dates for the meeting are June 18-22, 1990.

For a description of the program and topics to be covered and information on where to submit abstracts, see "C-MRS International Meeting Scheduled for 1990" on p. 52-53 in the September 1989 *MRS Bulletin*.