

Hotspot

Wall Colmonoy has published an eight-page brochure for the 50th anniversary of the *Nicrobraz nickel-base filler metals*. The brochure provides compositions, brazing ranges, specifications, and applications. For a copy, contact: Kim Schulte, Wall Colmonoy Corp., 30261 Stephenson Hwy., Madison Heights, MI 48071-1650; tel: 248/585-6400, ext. 221; fax: 248/585-7960.

Seco/Warwick has combined into one business unit the renewal parts group and the short-cycle, preengineered products, such as atmosphere generators and muffles. The *renewal parts/short cycle team supplies parts and subassemblies for* Sunbeam Stewart, Westinghouse, Sunbeam, Warwick, and Seco/Warwick equipment. For more information, contact: Steve DeBusk, Team Leader, Seco/Warwick Corp., 180 Mercer St., Meadville, PA 16335-3618; tel: 814/724-1400; fax: 814/724-1407; e-mail: secowarw@gremlan.org; web: <http://www.seco-warwick.com>.

To increase its production capacity for nickel-base aerospace alloys, Carpenter Technology has placed in production three state-of-the-art vacuum melting furnaces: a 20 metric ton (22 ton) vacuum induction degassing and pouring furnace built by ALD Vacuum Technologies, Erlensee, Germany, and two vacuum arc remelt from Consarc Corp., Rancocas, NJ. The company's vacuum induction melting facility can produce 90 metric tons (100



Carpenter Technology

tons) of vacuum melted alloys per day. For more information, contact: Carpenter Technology, Reading, PA 19601; tel: 1/800/654-6543.

A remote heat station from Pillar/Cycle-Dyne lets manufacturers bring power to the work site. The heat station is designed to accept several types of induction coils, to let the operator rapidly change over for hardening, forging, and brazing applications. Suited for work cells with limited floor space, these lightweight heat stations can also be fitted onto robotic arms in automated systems. For more information, contact: Robin Markowski, Product Manager, Pillar/Cycle-Dyne, N92 W15800 Megal Dr., Menomonee Falls, WI 53051; tel: 1/800/558-7733; fax: 414/255-0359.



Pillar/Cycle-Dyne

Furnaces and Forging India 1997, two complementary exhibitions organized by Argus Business Media Ltd., will be taking place 21 to 22 Nov 1997, at the Taj Palace Inter, Continental Convention Centre, New Delhi, India. Exhibit categories at the Furnaces show will include heat treatment, furnace construction, consumables, refractories, process control and instrumentation, energy-saving technologies, fuels, and thermal processing of metals and materials. At the Forging show, exhibits will feature forging, lubricants, consumables, materials handling, process control and instrumentation, and forged parts. For more information, contact: Argus Business Media Ltd., Queensway House, 2 Queensway, Redhill, Surrey RH1 1QS, Eng-

land; tel: 44/(0)1737/768611; fax: 44/(0)1737/761685.

ASM International will hold its *First International Conference on Automotive Heat Treating* in March, 1998, in Monterrey, Mexico. The conference will provide a forum for interaction between researchers (in academia and industry) and manufacturing and product engineers interested in automotive heat treating. The three-day technical program will focus on practical issues of continuing interest to the automotive industry, such as the need for production equipment to handle large volumes of parts; the need for continuous and reproducible processes; and the need for shortened processing times. A proceedings of conference papers distributed at the event will cover such topics as heat treating of ferrous and nonferrous alloys; equipment and processes for surface treatments of steels; prediction and control of distortion of treated parts; conservation of energy and environmental concerns of heat treatment; relationships between properties and process; and modeling and simulation of heat treat processes. For more information, contact: Conference Coordinator; ASM International, Materials Park, OH 44073-0002; tel: 216/338-5151, ext. 5473; fax: 216/338-4634; web: <http://www.asm-intl.org>.

VacMetal Gesellschaft für Vakuum-Metallurgie mbH received an order in February, 1997, from *Pohang Iron and Steel Company*, Republic of Korea, for *supply and installation of a ladle furnace and a deslagging station* in the No. 1 BOS Works in Kwangyang. The ladle furnace, the fourth supplied by VacMetal to Posco, is designed to treat weights of 245 to 275 metric tons (270 to 302 tons) and will operate in combination with three converters and an existing recirculatory degassing unit.

The Uni-Cast Div., *Sturm, Ruger & Co.*, Londonderry, N.H., expanded their manufacturing capabilities with *a pusher furnace system for the infiltration of metal matrix composites designed by the thermal process team of Seco/Warwick*. The

furnace has 68 kg/h (150 lb/h) gross loading and features a vacuum purge vestibule, high-temperature muffle, and extensive virtual instrumentation. For more information, contact: Seco/Warwick Corp., 180 Mercer St., Meadville, PA 16335-3618; tel: 814/724-1400; fax: 814/724-1407; e-mail: secowarw@gremlan.org; web: <http://www.seco-warwick.com>.

The **Asian Conference on Heat Treatment of Materials and the International Exhibition on Heat Treatment**, two conferences organized by the **Heat Treatment Institution of the Chinese Mechanical Engineering Society**, will be held 13 to 15 May 1998 in Beijing, China. For more information, contact: Heat Treatment Institution of the Chinese Mechanical Engineering Society, No. 18 Xueqing Rd., P.O. Box 907, Beijing 100083, China; tel: 86/10/62920613 or 62922277-310; fax: 86/10/62920623.

Cerro Copper Tube is investing more than \$7 million for **an annealing furnace** to be installed at the company's Shelbina, MO, facility **for manufacture of thin-wall copper tube for the air conditioning and refrigeration industries**. A continuous purging system removes virtually all residual gases, lubricants, and oxidants that might interfere with the performance of the air conditioning or refrigeration, precluding the need for any special cleaning before the tube is fabricated. For more information, contact: Cerro Copper Tube Co., P.O. Box 66800, St. Louis, MO 63166-6800; tel: 1/800/735-8040; fax: 618/332-6916; web: <http://www.cerrocoppertube.com>.

Brochure WM-730 from **Seco/Warwick** describes the WM-GL economy melting furnaces, a line of **melting/holding furnaces designed in conjunction with the aluminum die cast industry for performance at an economical price**. Designed to meet NFPA and OSHA safety guidelines, the furnace has modular construction for

ease of replacement, a NEMA 12 control panel with indicating temperature controls, electrical and combustion safety interlocks, a removable insulated dip well cover to conserve energy, a full-width door for easier cleaning, a mechanical furnace pressure control damper, and a composite refractory lining. For a copy, contact: Beth Manuel, Seco/Warwick Corp., 180 Mercer St., Meadville, PA 16335-3618; tel: 814/724-1400; fax: 814/724-1407; e-mail: secowarw@gremlan.org; web: <http://www.seco-warwick.com>.

U.S. Steel has placed an order with **LOI** to supply the **hydrogen batch annealing equipment** at its plant in Gary, IN. The facility will anneal hot roll bands intended for motor laminations and have an annual capacity of 31,700 metric tons (35,000 tons) per year. For more information, contact: LOI Industrial Furnaces, 2000 Oxford Dr., Bethel Park, PA 15102; tel: 412/835-4646; fax: 412/835-6740.

Unifrax, a manufacturer of ceramic fiber insulation, **has launched a Web site** at <http://www.unifrax.com>. The site contains information about the company and its industrial fiber, automotive fiber, and fire protection products. For more information, contact: Deborah Guynn, Unifrax, Niagara Falls, NY; tel: 716/278-3832; e-mail: guynn@ix.netcom.com.

Grieve has available furnace 737, a **heavy-duty box furnace** with a total heat input of 135 kW and a maximum operating temperature of 1093 °C (2000 °F). Workspace dimensions are 1.2 × 1.8 × 1.2 m (48 × 72 × 48 in.). A firebrick plate hearth is supported by firebrick piers, and the Kanthal wire heating elements are supported by vacuum-formed ceramic fiber insulation. The furnace features a digital indicating temperature controller, a 25 cm (10 in.) diam circular chart recorder, a manual reset excess temperature controller with separate contactors, a 30 h timer

to shut down the furnace at the end of a set period, and a 30 h bell-ringing batch timer. For more information, contact: Grieve Corp., 500 Hart Rd., Round Lake, IL 60073; tel: 847/546-8225; fax: 847-546-9210.

At its spring meeting, **Metal Treating Institute**, a heat treaters association, presented **Solar Atmospheres**, a company that specializes in vacuum processing, with the "Mastercraftsman Award" as **Commercial Heat Treater of the Year**, in recognition of a positive influence on industry standards in quality, environmental effort, and contributions to the local community. The award, cosponsored by **Industrial Heating** magazine, includes a \$1500 scholarship for Solar Atmospheres to present to the metallurgical student of its choice. For more information, contact: Solar Atmospheres, 1969 Clearview Rd., Souderton, PA 18964-0476; tel: 215/721-1502 or 1/800/347-3236; fax: 215/723-6460.

ASM International has compiled the **17th Heat Treating Society Conference Proceedings including the First International Induction Heat Treating Symposium**, for the conference occurring 14 to 18 September 1997, in Indianapolis, IN. The proceedings include hundreds of papers by authors from about 20 countries. The 1400-page book covers such topics as carburizing and other surface treatments, quenching and distortion, vacuum heat treating, atmospheres, furnace equipment, and induction heat treating. The book is divided into sections on distortion, equipment, nonferrous, processing, quality and technology, resource management, and the International Symposium on Induction Heat Treating. For a copy (\$149.60 members, \$187 non-members), contact: Member Services Center, ASM International, Materials Park, OH 44073; tel: 216/338-5151 or 1/800/336-5152, ext. 5300; fax: 216/338-4634; telex: 98-0619 ASMINT; e-mail: mem-serv@po.asm-intl.org.
