

## SSPC Publishes Manual On Spray Applications

The Society of Protective Coatings (SSPC), Pittsburgh, PA, has published *SSPC Basic Spray Application Manual*, a new training manual on paints and coatings. The manual provides fundamental instruction in the technology and craft of cleaning and painting industrial structures.

The 200-page manual can be used by contractors and others as a tool for in-house worker training, and can be used either for independent study or as part of a more formal group program.

In addition, SSPC has developed a new guide for developing a corporate safety program for industrial painting and coating contractors. Companies seeking certification in SSPC's Qualification Procedures program must prove that their company has a safety program in effect that is monitored and enforced.

For details, contact SSPC Publication Sales (phone: 887-281-7772; fax: 412-281-9992; e-mail: [books@sspc.org](mailto:books@sspc.org)).



## Manufacturing Outlook Remains Steady

Manufacturers are expecting a mostly steady economy, according to the Precision Metalforming Association (PMA) *Business Conditions Report*. Conducted monthly, the report is a sampling of 186 manufacturing companies that is used as an economic indicator for manufacturing.

Forty-nine percent of respondents expect business conditions to improve, down one percent from last month. Though slightly down, predictions are still more positive than most of 2002 and 2003, the report said.

Since November 2003, fewer companies are experiencing layoffs in plant workforce. In the April 2004 report, 15 percent of responding companies indicated that they have workers on short time or layoff, a two percent improvement from a month earlier.

## Test Your Plating I.Q. #396

By Dr. James H. Lindsay, Jr., AESF Fellow

### Electrochemical Measurements

1. What is a calomel electrode?
2. What is a rotating disk electrode and when is it used?
3. In a three-electrode cell, what is a working electrode? A reference electrode? A counter electrode?
4. What does voltammetry measure? How does it work?
5. Name some common reference electrodes.

Answers on page 54

The monthly *Business Conditions Report* has been administered by PMA since 1979. Full report results are available at [www.metalforming.com](http://www.metalforming.com).

## ASTM Committee G01 Elects Neal Berke Chair

ASTM International's Committee G01 on Corrosion of Metals has elected Dr. Neal S. Berke chairman. He is a research and development fellow at Grace Construction Products, W.R. Grace and Co. Cambridge, MA. Berke most recently served as vice chair of the committee, which includes 350 members who have responsibility for more than 70 voluntary consensus standards.

Berke has been a member of ASTM since 1984, and is an ASTM Award of Merit recipient. He holds more than 20 U.S. patents, and frequently reviews papers for several technical organizations and journals.

## AEC Honors Two Volunteers

At the Aluminum Extruders Council's 55th annual meeting, two volunteers were recognized for their outstanding contributions to the Council.

Richard L. Gaugler, AEC Chairman in 1974, was presented with the Council's highest honor, the Distinguished Service award. During his career, Gaugler served

as president and chairman of M-D Building Products.

Also at the meeting, Christopher Jowett of Alcan International was presented with the 2004 Volunteer of the Year Award.

## Strategy Conference On Car Body Painting Set

The 4th International Strategy Conference on Car Body Painting is set for July 1-2 in Berlin, Germany. The conference focuses on diverse car body painting concepts and strategies, state-of-the-art technology and industrial applications. Special emphasis will be put on modern car body painting concepts. For more, visit [www.coatings.de/automotive](http://www.coatings.de/automotive).

## Company News

❑ **A Brite Company**, Garland, TX, a manufacturer proprietary cleaning, plating and environmental chemicals, has acquired ACI Chemical of Lancaster, TX. ACI is a manufacturer of specialty cleaners, iron and zinc phosphates, chromates and specialty products for the architectural industry.

The merger will provide the electroplating, aluminum processing, architectural, paint and powder coatings industries a strong service organization that offers a wide range of mil-spec, aircraft and industry approved products.

❑ **Metal Coatings International, Inc.** (MCII), Chardon, OH, has achieved compliance with the ISO 9001:2000 quality management standard. The new designation is an upgrade from ISO 9001:1994 standard that was previously held by the company.

MCII has manufacturing facilities in the U.S., Japan, France, Brazil and Mexico. The company is a developer and manufacturer of proprietary corrosion resistant coatings, sealers and topcoats.

❑ **Magnetek Power Control Systems** is relocating its telemotive industrial controls division from Glendale Heights, IL, to its Menomonee Falls, WI, facility. All telemotive functions, including manufacturing, sales, customer service, product management, accounting, engineering and R&D are moving to Menomonee Falls. Marketing and human resources were previously moved to that location.

Magnetek Power Controls Systems is a division of Magnetek, Inc., Los Angeles, CA, a designer and manufacturer of digital power and control products.

❑ **Mollie Leonelli**, president of **Aldoa Company**, Detroit, MI, has sold the company to Irfan Raza, president and owner of Advanced Urethanes, Inc., Troy, MI.

Aldoa serves the metal finishing industry as a manufacturer of electroplating chemicals, metal pretreatment chemicals, cleaner and treatment compounds for process and wastewater.

Leonelli formed the company in 1957 with her late husband, Bruno Leonelli. The were very active in the AESF Detroit Branch.

"After spending 47 years operating Aldoa with my husband Bruno, I felt it was time to turn the business over to someone else who would keep it going," Leonelli said. "We have a loyal, talented staff at Aldoa, many of whom have been with the company for a long time. I wanted to make sure their futures were secure."

Raza said he is committed to maintaining Aldoa's strong position in the plating industry.

❑ The **AESF Wastewater Treatment and Control Workshop** will be presented at the Southern Metal Finishing 2004 Conference, September 1-4, at Charleston, SC. The two-day course covers various technical skills necessary to operate industrial wastewater treatment systems in metal finishing. The workshop will be conducted by **Joelie Zak, CEF-4**, a certified instructor for the Society.

Also at the same conference, **Kushner Electroplating School**, Sunnyvale, CA, is

#### Answers to I.Q. Quiz #396

1. It consists of a mercury (Hg) / mercury chloride ( $\text{Hg}_2\text{Cl}_2$ ) electrode in a saturated solution of potassium chloride ( $\text{KCl}$ ).
2. The rotating disk electrode (RDE) consists of a disk on the end of an insulated shaft that is rotated at a controlled angular velocity. It is used for studying electrochemical kinetics under conditions when the electrochemical electron transfer process is a limiting step rather than the diffusion process.
3. A working electrode is where the actual electrochemical process under study is going on, i.e., "where the action is." A reference electrode is a known and stable electrode which provides a reference point against which the other potentials in the cell can be measured. A counter electrode is the electrode that makes contact with the electrolyte to complete the circuit with the working electrode.
4. Voltammetry can be used to determine of the kinetics and mechanism of electrode reactions, and for corrosion studies. "Voltammetry" is a name applied to a number of techniques, but the common theme is that the potential of the working electrode is controlled and the current flowing through the electrode (or the response of the current to changing voltage) is measured.
5. Silver/silver chloride, calomel, and hydrogen electrodes.

offering a half-day seminar on zinc an zinc alloy plating. The seminar will be taught by **Dr. Art Kushner**, director of the school.

For details, contact Paul Fisher (e-mail: [cpdlist@bellsouth.net](mailto:cpdlist@bellsouth.net); phone: 828-429-2618).

❑ **Rohm and Haas Electronic Materials**, Marlborough, MA has reached an agreement with CAE-Leti, co-founder of Minattec, Micro and Nanotechnologies Innovative European Centre, to develop IC process integration technology targeted at the 45 nanometer and lower nodes. Together, the organizations will focus on addressing IC industry needs for advanced lithography, as well as advanced interconnect technologies that may include ultra

low-k dielectrics, low-k and copper-compatible advanced removers and novel plating chemistries.

Through the agreement, Rohm and Haas Electronic Materials will also focus on independent product development and application support efforts carried out at a laboratory in Grenoble, France. The team will be connected to Rohm and Haas Electronic Materials' facilities and programs already in place in the Asian and North American regions.

❑ **Spirax Sarco, Inc.**, Blythewood, SC, recently opened its fifth Steam Technology Training Center in the U.S. The center is located at the company's Mid-Atlantic Regional facility in Center Valley, PA.

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