

Congratulations

New CEF-SEs & ESCs

Congratulations to these surface finishing professionals for successfully completing the requirements to earn the designations of Certified Electroplater-Finisher—Specialist in Electronics (CEF-SE) and Electronics Specialist-Certified (ESC):

Steve Wittke, CEF-SE, H. H. Sumco, Indianapolis, IN (Indianapolis Branch)

Ken Drogemuller, ESC, Cirqon Technologies, Gurnee, IL (Chicago Branch)

Karin Stortroen, ESC, Atotech Canada, Burlington, Canada (Toronto Branch)

Michael Brouillard, ESC, H. H. Sumco, Indianapolis, IN (Indianapolis Branch)

Coating '99

Set for Dallas

The Coating '99 conference and exhibition is set for the Dallas Convention Center, Dallas, TX, on September 21–23. The event is an outgrowth of The Powder Coating Institute's conference and exhibition, and is being co-sponsored by 11 industry associations, including: Air & Waste Management Association; The Chemical Coaters Association International; Electrocoat Association; Metal Finishing Suppliers Association; National Association of Metal Finishers; National Coil Coaters Association; National Paint & Coatings Association; Porcelain Enamel Institute; The Powder Coating Institute; RadTech International North America; and Society of Vacuum Coaters.

The conference will cover a variety of topics, including liquid coating, powder coating, electrocoating, coil coating, vacuum coating, porcelain enameling, radiation curing and air & waste management.

The exhibit is expected to include about 300 companies, according to Anne Goyer, conference and show manager. Nearly 200 companies have already reserved space. For more information about the program and exhibit, contact Goyer (phone: 513/624-9988; e-mail: aygoyer@one.net; website: www.finishing.com/coating).

Test Your Plating I.Q. #336

Editor's note: "Test Your Plating I.Q." columnist John Laurilliard, CEF, is home recovering from surgery. This month's test was compiled by AESF's technical education experts.

Test Your Knowledge on Silver and Gold.

1. (Fill in the blank) The metal with the highest electrical conductivity, which serves as the standard, is _____.
2. (Check one) Although the cathode current efficiency of an acid soft gold solution is about 98–100 percent, the cathode current efficiency of solutions producing hard gold deposits is much lower. () True. () False.
3. (Check one) An acid gold solution containing potassium gold cyanide is stable and does not release acid into the atmosphere, because the bond between the cyanide radical and the gold is () ionic () covalent.
4. (Check one) Hard alloy gold deposits have a Knoop hardness number (KH_{26}) between 40 and 90 at a 25 gram load. () True. () False.
5. (Fill in the blank) The purpose of a silver strike deposit prior to silver plating is to prevent _____ deposition.

Answers are on page 128.

UV/EB Technology Receives Priority Treatment From SCAQMD

Ultraviolet and electron beam curing (UV/EB) has been recognized as an environmentally friendly technology by one of the strictest air quality control boards in the U.S. The South Coast Air Quality Management District (SCAQMD) in Southern California has given the go-ahead for immediate installation of UV/EB exempt processes by the printing, coatings and laminating industries. Companies will not have to wait months for permits to install the technology.

UV/EB involves the use of ultraviolet (UV), electron beam (EB) or visible light to polymerize or "cure" inks, coatings and adhesives without the potential polluting effects of solvents. The technology is used in a wide range of applications, including fiber optics, compact discs, wood flooring, credit cards, beverage cans, magazine covers and automotive parts.

Traditional curing methods involve hot air and/or oven drying, which typically take longer and often create

emissions of air-polluting compounds (VOCs).

FSCT Elects New Officers

The Federation of Societies for Coatings Technology (FSCT) recently elected Forest Fleming, technical director of Industrial Wood Building Products Group, Akzo Nobel Coatings, Inc., High Point, NC, as its new president. Gerry J. Gough, head of quality control for ICI Packaging Coatings, Birmingham, England, was named president-elect, and J. "Dick" Mullen, area manager for G-E Industries, Aurora, CO, was elected secretary-treasurer.

ASTM Issues Call for Papers For Symposium

On Environmental Cracking
Papers are invited for a Symposium on Environmentally Assisted Cracking: Predictive Methods for Risk Assessment and Evaluation of Materials, Equipment and Structures. The symposium is sponsored by the American Society for Testing Materials (ASTM) Committee G-1 on Corrosion of Metals and its Subcom-

mittee G01.06 on Environmentally Assisted Cracking (EAC), in cooperation with NACE International, the Material Properties Council, Inc., the Materials Technology Institute of the Chemical Process Industries, and the Electric Power Research Institute.

The symposium will be held in Orlando, FL, November 13–15, 2000. Original papers are sought on these and related subjects:

- Use of electrochemical, surface analysis, dynamic and cyclic straining/loading methods, and fracture mechanics techniques.
- Correlation between laboratory and in-service cracking resistance.
- State-of-the-art developments in fitness-for-service and risk assessment methodologies.
- Monitoring of equipment and structures for environmentally assisted cracking.

Authors are requested to submit a title, a 250–300 word preliminary abstract, and an ASTM paper submittal form by April 5, 1999, to Dorothy Savini, Symposia Operations, ASTM, 100 Barr Harbor Dr., W. Conshohocken, PA 19428-2952 (phone: 610/832-9677).

Environmental Law Requires Notification Of Municipal Officials

The passage of a new law has expanded public notification requirements for obtaining environmental permits in Connecticut, according to Rick Soucy, senior associate at Environmental Risk Limited, Bloomfield, CT. Companies that apply for an environmental permit in Connecticut must directly notify the chief elected official of the municipality in which the proposed activity will occur.

The new law is supposed to make certain that municipal officials become aware of facility operating changes or expansions that could adversely affect their communities. According to Soucy, the law could negatively impact businesses in the state. "Even small, innocuous changes at a facility, such as the replacement of a boiler, could become subject to public scrutiny," said Soucy. "If the right conditions exist and a company has some public relations problems, a normally non-controversial project could spark public opposition."



General Electric recently presented Southwestern Ohio Steel (SOS), Hamilton, OH, with its prestigious GE Appliances 1998 Distinguished Supplier Award. SOS is one of only 13 companies in the world to receive the award. SOS employees are shown here with the award following the presentation.

No permits will be issued by the Connecticut Department of Environmental Protection unless the new requirement is met.

SSPC & NACE

Discuss Merger

The Society for Protective Coatings and NACE International, the corrosion society, have begun preliminary discussions about a possible merger.

Both not-for-profit associations serve end users, engineers and suppliers involved with corrosion prevention coatings. Some 2,400 individuals currently belong to both organizations. That represents about 30 percent of SSPC's 8,200 members and 15 percent of NACE's 16,000 members.

An announcement issued by NACE said a joint task force has been formed to explore closer collaboration and potential unification. The task force will focus on the value that collaboration and/or formal unification can add to services provided by the societies to their members.

AEC Celebrates 50th Anniversary

The Aluminum Extruders Council (AEC) will celebrate its 50th anniversary in 1999. The official celebration

will be held at the group's annual meeting March 11–13, at the Breakers Resort in Palm Beach, FL.

Leonard Named

ASTM Committee Chair

Ralph W. Leonard, manager of coated products for U.S. Steel (USX) has been elected chairman of the American Society for Testing Materials (ASTM) Committee A-5 on Metallic-coated Iron and Steel Products. The 180-member committee is concerned with testing, developing and maintaining standards for this field. Leonard's term runs from January through December 1999.

Company News

◦ **Queen City Steel Treating Company**, Cincinnati, OH, has achieved three internationally recognized quality designations—QS 9000, ISO 9002, and Q-1 Award. The company is a regional supplier of high-volume batch and continuous atmosphere processing, as well as eight other specialty processes, for heat treating steel.

◦ **Cellini Purification Systems, Inc.**, Springfield, MA, has changed its name to **CASTion Corporation**. The

new name reflects a proprietary technology specifically designed for industrial wastewater recycle and reuse in pollution prevention applications.

○ **Kewill Systems plc** has reorganized the company's global operations into three consolidated operating divisions.

As part of the move, its Foster City, CA-based enterprise resource planning company, **Micro-MRP, Inc.**, will now be known as **Kewill ERP, Inc. Exeter Software Ltd**, its U.S. warehouse management software supplier, is now called **Kewill Logistics, Inc.**

○ **IBM Corporation** has completed installation of its fifth automatic plating system at its facility in Fishkill, NY. The system is designed for immersion gold processing on ceramic electronic packages. **HBS Equipment Corporation**, La Mirada, CA, installed the system.

○ **ZawTech International** has opened a new 9,000 ft² facility in Idaho Falls, ID, where it manufactures two zero-added-waste cutting and cleaning systems. The proprietary systems are based on technologies developed by the **Idaho National Engineering and Environmental Laboratory** (INEEL) and licensed from INEEL's managing operator, **Lockheed Martin Idaho Technologies Company** (LMITCO). The systems are designed to make many industrial processes safer and more environmentally friendly by performing hazardous and non-hazardous cleaning and cutting operations while minimizing waste.

○ **USF Surface Preparation**, Newnan, GA, has acquired **Smith Industrial Supply Co., Inc.**, San Francisco, CA. Smith is in the abrasive blasting supply market. USF Surface Preparation is a subsidiary of **USFilter Corporation**.

○ **World Resources Company**, a Pottsville, PA, recycling facility, has achieved ISO 14001 certification. The company recycles metal-bearing wastewater treatment sludges from the electronics and metal finishing industries in the U.S., Europe and the Pacific Rim.

In Memoriam

Mark Kulak, 43, a member of the Waterbury Branch, died in October. A biology major at Eastern Connecticut State University, Kulak began a career in metal finishing in 1977 at Aqualogic, Inc., a manufacturer of waste treatment equipment.

In 1980, Kulak joined Enthone-OMI as an R&D chemist, and was later promoted to senior chemist. His research included work on electroless nickel processes, EMI-PFI shielding and tin/tin alloy strippers.

In 1993, Kulak joined the technical service group at Enthone-OMI, where he performed customer process troubleshooting on a variety of metal finishing processes. He also supervised the Enthone-OMI pilot plating facility.

Raymond Mitchell, co-founder and chairman of the board of the Mitchell-Bate Company, Waterbury, CT, died on November 13, 1998. A long-time supporter of AESF, he had 43 years of service with Mitchell-Bate.

Thomas F. McCardle, president and CEO of Kolene Corporation, Detroit, MI, died on September 26, 1998. He had served as the company's president since 1988 and became the CEO in March of this year. He joined Kolene in 1968. McCardle was a past president of the Chemical Coaters Association International, and a former officer, board member and fellow of ASM International.

○ **Technic, Inc.**, Providence, RI, has acquired a majority holding in **Lektrachem, Ltd.**, Coventry, England, a specialty chemical process manufacturer and supplier. The merger will create a stronger presence for both companies in the European printed circuit board (PCB) market.

○ **Morton Powder Coatings**, Warsaw, IN, has received the State of Indiana Quality Improvement Award. The award recognizes the plant as one of Indiana's most outstanding operations for quality control.

The company initiated a comprehensive total quality management plan in 1991 and achieved ISO 9002 registration in 1996.

○ **CMS Hartzell** of Richmond, KY, and St. Paul, MN, and **Global Tool & Engineering**, Dallas, TX, have merged capabilities. The agreement calls for Global to provide advanced engineering, tooling and injection molding services. CMS Hartzell will offer high volume plastic injection molding and assembly while supporting advanced engineering and tooling activities. CMS Hartzell will also provide customers of both organizations with sheet metal stamping and fabricating, die-casting and electro-mechanical assembly.

○ **Osmonics, Inc.**, Minnetonka, MN, has signed an agreement with **Johns Manville**, Denver, CO, to purchase its proprietary liquid cartridge filter business. The fiberglass disposable filters, which Johns Manville has developed over the past 25 years, are high performance, replaceable cartridges. They are used for general industrial liquids filtration, coatings, high-temperature and high-viscosity applications, and organic solvent purification.

○ The test fixture operation of **Everett Charles Technologies**, Orlando, FL, has achieved ISO 9002 certification. The facility specializes in customizing test fixtures used for printed circuit board (PCB) manufacturing.

Answers to quiz from page 126.

1. Silver.
2. True.
3. Covalent
4. False.
5. Immersion.