

METALFORM '05 to Feature A Variety of Technical Sessions

Nearly 20 technical sessions are to be held during METAL '05, March 21–23, 2005, at the Donald E. Stephens Convention Center in Rosemont, IL. Each session will run for two hours, and they are scheduled so that attendees can take advantage of the sessions and spend time on the exhibit show floor.

Planned sessions include:

- Press technology
- In-die sensing
- High-strength steels
- Value-added assembly
- Electronics
- Quick Die Change
- Tooling
- Materials
- Short-run fabricating
- Die design and estimating
- Transfer technology
- Steel specifications
- Amateur metallurgy
- Sensors
- Lubricants
- Strip Shape Control

For additional information on the event, visit www.metalform.com.

FSCT Issues Call for Papers

The Federation of Societies for Coatings Technologies (FSCT) has issued a Call for Papers for "Research Methods in the 21st Century: A Toolkit for Competitive Advantage," which will be held May 18–20, 2005, at the New Orleans Marriott, New Orleans, LA.

Organizers say the program will explore emerging technologies and techniques that provide the user with competitive advantages in developing new products in coatings R&D. Primary focus will be on design of experiment (DOE), high throughput R&D (HRD), and combinatorial methods. Other topics will also be included.

For more information, contact FSCT (610/940-0777; FAX: 610/940-0292; Web site: www.coatingstech.org).

Test Your Plating I.Q. #402

By Dr. James H. Lindsay, AESF Fellow

Metallography in Plating



1. What are the artifacts in this plated cross-section?



2. This is the nickel section of a Cu-Ni-Cr multilayer. Which layer is the semi-bright and which is the bright nickel?



3. What phenomenon does this Cu-Ni-Cr cross-section demonstrate?



4. What phenomenon does this section of copper plate illustrate?



5. What is the name given to the area that is causing the thicker plate distribution in this nickel deposit.

Answers on page 45

ASTM Announces Training For Corrosion Testing

ASTM International, West Conshohocken, PA, will present a series of two-day training courses in 2005 on "Corrosion Testing: Application and Use of Salt Fog, Humidity, Cyclic, and Gas Tests."

The courses are scheduled for:

- June 14–15, 2005, in Los Angeles, CA
- September 27–28, 2005, in Chicago, IL
- November 15–16, 2005, at ASTM International Headquarters in West Conshohocken, PA.

Participants will learn how to properly operate salt fog apparatus, the "whys" and "hows" of salt fog testing, and gain hands-on experience. Demonstrations will also be given on mixing solutions, cleaning coupons and samples, evaluation of results and samples, and B 117 corrosion test equipment. The course is intended for corrosion technicians, product test personnel, laboratory supervisors, and users of B 117.

For more information, contact Eileen Finn, ASTM International (610/832-9686; FAX: 610/832-9668; efinn@astm.org; or visit www.astm.org).

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Finishing Facts

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SFCHINA 2004, held in Hong Kong in November, reported that 292 companies exhibited at the event, which attracted 10,545 attendees. SFCHINA 2005 will be held in Shanghai November 16–18, 2005

Answers to I.Q. Quiz #402

1. Indentations from Vickers hardness testing.
2. The upper layer is the semi-bright nickel. The lower layer is the bright nickel (shown upside down to make a weak attempt at a trick question).
3. The photo shows the result of corrosion, and the tendency to corrode more laterally into the more active bright nickel and less vertically into the less-active semi-bright nickel deposit, significantly delaying ultimate failure.
4. Leveling.
5. High current density area.

EuroBLECH Reports Successful 2004 Event

Organizers of EuroBLECH 2004, held in October in Hanover, Germany, said the event hosted 1,332 exhibitors from 31 countries. The event attracted 61,000 visitors from more than 55 countries, with an increased number of attendees coming from Europe and Asia. Attendees from the European Union accounted for the largest increase in international visitors, the report said. The number of attendees from Germany alone increased by five percent. Officials noted that there was an increased interest from the automotive industry at the event.

The next EuroBLECH will be held in Hanover, Germany, on October 24–28, 2006.

Company News

□ The Kushner Electroplating School, Sunnyvale, CA, has announced its Spring 2005 schedule of two-day training courses in electroplating. Courses will be offered:

- April 4–5, 2005 in Greenville, SC
- April 7–8, 2005 in Cincinnati, OH
- April 11–12, 2005 in Providence, RI
- April 18–19, 2005 in Los Angeles, CA

The two-day program is based on the correspondence course “Electroplating Know How II,” and covers such subjects as:

- Mathematics of electroplating
- Chemistry and electrochemistry of electroplating
- Environmental issues
- Safety issues
- Plating cycles
- Cleaning and rinsing techniques
- Testing procedures

For information, contact Bobby Kushner (408/749-8652; FAX 408/749-0176; or visit www.platingschool.com).

□ Over the next three years, Bosch Rexroth AG will invest 83 million Euros to expand its production capacities in China. The largest project in the plans is the construction of a new factory in Beijing in 2005. Along with other products, axial piston machines will be produced on an area of 85,000 m² for the Asian market. The company says a new factory is necessary because of the stretched capacities of the existing factory in Beijing, which has 350 employees.

The company will also add additional production lines at its factory in Wujin, which produces hydraulic cylinders and units.

In North America, Bosch Group manufactures and markets automotive original equipment and aftermarket products, along with a number of other products.

□ Metal Coatings International, Inc. (MCII), Chardon, OH, has added the Applications and process Technology Group. The unit was created with the intent of developing new and innovative coating techniques that are more cost-effective for today's market.

Gary Dillon, a 27-year veteran of the company, will manage the new department. *P&SF*