NAMF Elects New Leaders For 2003-04

The National Association of Metal Finishers (NAMF) recently elected officers and directors. Officers for 2003-04 are: Joanne Marozza, president (Three J's Industries, Inc., Elk Grove Village, IL); Mike Kelly, vice president (Asko Processing, Inc., Seattle, WA); David Jacobs, secretary-treasurer (Northwestern Plating Works, Inc., Chicago, IL); and Blair R. Vandivier, CEF, immediate past president (Benchmark Products, Indianapolis, IN).

Newly elected members of the NAMF Board of Directors are: Tony D. Alcaro, Jr. (Alcaro & Alcaro Plating Co., Montclair, NJ), and Jerry Wahlin (AAA Plating & Inspection, Inc., Compton, CA).

Others serving on the board are: Alexander G. Kappos, Ray E. Lucas, Ted H. Maack, James C. McCall, Michael McMonagle, Joseph Morgan, Sr., J. Kelly Mowry, Anthony R. Revier, Sylvia Rodriguez, and Edward J. Rubin.

Test Your Plating I.Q. #386

By Dr. James H. Lindsay, AESF Fellow

Plating Recipes

1. What are the three primary ingredients in a Watts nickel bath and what are their concentrations?
2. Sulfate-catalyzed decorative chromium baths contain varying amounts of chromic acid, varying from 250 to 400 g/L (33.3 to 53.4 oz/gal). How much sulfuric acid is used (range)?
3. What are the three primary ingredients in a typical bright acid copper bath and what are their concentrations?
4. What are the reducing agents in the two types of electroless nickel-boron solutions and the common electroless nickel-phosphorus?
5. What are the three primary ingredients in a typical cyanide copper strike bath and what are their concentrations?

Extra Credit: What is the primary ingredient in a sulfuric acid dip?

Answers are on page 46

Labor Department Grants Funds For Metalworking Programs

The U.S. Labor Department has awarded a $1.9 million grant to the National Institute for Metalworking Skills (NIMS) to give a 21st-century facelift to existing metalworking apprenticeship programs. The new model will use industry proficiency standards established by NIMS to provide a consistent system of providing credentials for metalworking occupations.

The grant will allow NIMS to develop curriculum guides for the four metalworking areas: metalforming, machining, tool and die making, and machine building. The guide will address competencies required, standardized paths to move up or within an occupational area, and ways to move across metalworking occupations.

Students enrolled in the program will receive national credentials that are consistent across the industry and can be used by metalworking companies in making recruitment, hiring, training and promotional decisions.

NIMS represents a number of industry partners, including: The Precision Metalforming Association, the Association for Manufacturing Technology, the National Tooling and Machining Association, the American Machine Tool Distributors Association, The Tooling and Manufacturing Association, and the Precision Machine Products Association.

ET Foundation Elects Trustees

The Extrusion Technology for Aluminum Profiles Foundation (ET Foundation) recently elected a new board of trustees. Robert M. Peacock, Almag Aluminum, Inc., Brampton, Ontario, Canada, was elected chair, moving from a position as vice chair and treasurer.

Elected to fill the position of vice chair and treasurer was Thomas E. Hutch, Jr., president and CEO of Aerolite Extrusion Company, Youngstown, OH.

Emory Schmidt, Brazeway, Inc., Adrian, MI, was added to the board of trustees. Martin J. Bidwell, Magnode Corporation, Trenton, OH, will remain on the board.

Rand A. Baldwin, CAE, will continue to serve as the group's president and secretary.

PCI Elects Officers & Directors

The Powder Coating Institute, Alexandria, VA, recently elected officers and directors for 2003-04. Elected president was Steve Houston of DuPont Powder Coatings, USA, Inc.; Ken Kreeger of North American Powder Equipment at Nordson Corp., was elected vice president; and Dave Heiflin, Akzo Nobel, Inc./Interpon Powder Coatings, was named secretary-treasurer.

Elected to two-year terms on the board of directors were: Phil Bechtold, Moreton

Whyco Finishing Technologies, LLC, recently purchased Whyco Technologies, Inc.

Powder Coatings; Tony Mazzarella, Bayer Polymers; and Jerry Trostle, Spray Booth Systems, Inc.

Continuing to serve of the board are: Marc Fooksman, ITW Gema; Barry Keating, PPG Industries; and Dwight Murray, Calgary Powder Coatings.

Company News

❑ Enthone, Inc., West Haven, CT, a Cookson Electronics Company, has announced it will expand marketing and distribution of its proprietary copper damascene electrochemical deposition processes through an exclusive licensing and joint-development agreement with ATMI, Inc., Danbury CT.

Under terms of the partnership, ATMI will gain exclusive worldwide rights to use, distribute and sell products and services related to copper electrochemical deposition, including proprietary materials, that Enthone will continue to manufacture.

❑ Shipley Company, LLC, a subsidiary of Rohm and Haas Company, recently announced that its Electronic and Industrial Finishing (EIF) business has received the Supplier Excellence Award of 2002 from Kyocera America, Inc. The award recognized Shipley's creativity and ingenuity, as well as outstanding quality, service and value.

❑ Cyclone Products, Clearwater, FL, has launched a live auction Web site that will offer items for the finishing industry—www.cycloneauctions.com.

The site will be dedicated to selling equipment and support items used in metal finishing, printed circuit board, and the microelectronics industries. The site will act similar to eBay, where sellers post items and buyers make offers to purchase, or "Buy Now" at a set price.

❑ Whyco Finishing Technologies, LLC, Thomaston, CT, has purchased substantially all of the assets of Whyco Technologies, Inc. Michael P. D'Angelo, a 25-year veteran of the metal finishing industry, has been appointed president of the newly formed company. D'Angelo was formerly divisional president of MacDermid, Inc.

The owners of the company also have other metal finishing operations, including Spartan Metal Finishing, Howard Finishing, and Metprotech, Dayton, OH.

D'Angelo said the company will work to leverage Whyco's well-known reputation for technology as it expands into new surface treatment areas.

Whyco is known for its specialized, functional finishes, including hard chromium, zinc and zinc alloys, and novel high corrosion finishes.

❑ Wall Colmonoy Corporation, Madison Heights, MI, has announced that four of its locations have achieved registrations to ISO 9000:2000 quality management system standards.

The company's corporate office and laboratory in Madison Heights, and its Los Lunas, NM processing plant have been registered for ISO 9001:2000, with AS9100: 2001 Rev. A for design, manufacturing and distribution of high-quality nickel- and cobalt-based hard surfacing and brazing alloys for targeted industrial markets. AS9100:2001 Rev. A is the quality system standard for the aerospace industry.

Wall Colmonoy Oklahoma City, OK, manufacturing plant has been registered for ISO 9001:2000 standard for manufacture of precision sheet metal and tubular components and assemblies for aerospace, defense and power generation industries.

The company's Dayton, OH, process facility has been registered for ISO 9001: 2000 with AS9100:2001 Rev. A standard for aerospace heat treating, brazing, coating and hard surfacing. ***P&SF***

Answers to I.Q. Quiz 386

1. Nickel sulfate, $NiSO_4.6H_2O$, 330 g/L (44 oz/gal)
   Nickel chloride, $NiCl_2.6H_2O$, 45 g/L (6 oz/gal)
   Boric acid, H_3BO_3, 38 g/L (5 oz/gal)

2. 2.5 to 4.0 g/L (0.33 to 0.53 oz/gal); 100:1 ratio.

3. Copper sulfate, $CuSO_4.5H_2O$, 195-240 g/L (26-32 oz/gal)
   Sulfuric acid, H_2SO_4, 45-60 g/L (6-8 oz/gal)
   Chloride, Cl^-, 20-80 ppm

4. Sodium borohydride
   Diamethyamine borane
   Sodium hypophosphite

5. Copper cyanide, CuCN, 15 g/L (2 oz/gal)
   Sodium cyanide, NaCN, 28 g/L (3.7 oz/gal)
   Sodium carbonate, Na_2CO_3, 15 g/L (2 oz/gal)

Extra credit: Excluding the water, sulfuric acid !!!