

# Finishing Facts

## MFSA Elects New Officers & Trustees

The Metal Finishing Suppliers' Association (MFSA) recently elected new officers and trustees. Elected to serve two-year terms as officers were: Tony Revier, Uyemura International, Ontario, CA, president; Bill Saas, Taskem, Inc., Brooklyn Heights, OH, vice president; Mike Stewart, Process Technology, Mentor, OH, treasurer; and Scott Walker, *Products Finishing*, Cincinnati, OH, secretary.

Elected to serve three-year terms as trustees were: Mark Boivin, Enthone-OMI, Inc., West Haven, CT; Barry Brown, BroCo Products, Cleveland, OH; Steve Leonetti, MacDermid, Inc., Waterbury, CT; Eric Olander, EPI Electrochemical Products, New Berlin, WI; and William Rosenberg, Columbia Chemical Corp., Brunswick, OH.

The association also recently hired Barry J. Noland of Barrack Association Management, Potomac Falls, VA, as executive director.

## Call for Papers Issued For Workshop on Galling Testing

ASTM International, Conshohocken, PA, and ASTM Committee G02 on Wear and Erosion, has issued a call for papers for its workshop on galling test methods. Scheduled to be held in Miami Beach on November 6-8, the workshop will focus on different methods of testing materials for galling resistance, as well as fundamental aspects of galling behavior of materials.

Papers discussing the comparison of different galling test methods, both analytical and experimental, are particularly encouraged. The workshop is expected to result in one of more proposed standards for galling tests.

Deadline for submitting a one-page maximum abstract is May 31. For more information, contact Dr. Steve Shaffer, senior research scientist, Battelle Memorial Institute, 505 King Ave., Columbus, OH 43201 (phone: 614/424-4960; FAX: 614/424-7479; e-mail: shaffers@battelle.org).

## 2002 R&D Funding Expected to Increase 3.5%

Research and Development (R&D) expenditures in the U.S. are expected to increase

## Test Your Plating I.Q. #371

By Dr. James H. Lindsay, AESF Fellow

### Important Properties of Plated Coatings

1. For electrical connector applications, \_\_\_\_\_ is important, and plated gold and its alloys and the platinum group metals serve the purpose.
2. In hydraulic power machinery and tools, abrasion resistance is critical. Which of the following plated metals are applicable?
  - (a) Platinum group metals
  - (b) Chromium
  - (c) Ni and Co composites
  - (d) Copper alloys
3. In the manufacture of tires, rubber adhesion to steel cords is mandatory. Which of the following plated metals are applicable?
  - (a) Zinc
  - (b) Chromium
  - (c) Tin
  - (d) Copper alloys
4. Electroplated copper is used in final-layer applications requiring good:
  - (a) Solderability
  - (b) Conductivity
  - (c) Decorative appearance
  - (d) Lubricity
5. In bearings and rubbing surfaces, softness and lubricity are provided by which of the following plated metals?
  - (a) Lead
  - (b) Zinc
  - (c) Silver
  - (d) Tin

Answers on page 57

about 3.5 percent, to \$285.6 billion in 2002, according to the annual Battelle *R&D Magazine* research and development forecast. The forecast cites three significant factors influencing the increase:

1. A change in presidential administration
2. The faltering economy
3. Aftermath of the September 11 terrorist attacks

Highlights of the forecast are:

- The federal government is expected to spend \$75.5 billion on R&D in 2002,

which is a 4.7-percent increase over the year before.

- Industry continues to lead in the number of dollars funding R&D, with nearly \$195 billion expected to be spent in 2002, a 3.2-percent increase.
- Academia and non-profits provide the other portion of R&D funding, which is expected to be \$15.4 billion, a three-percent increase from last year.

Government commitment to R&D before September 11 was beginning to show signs of growth driven largely by proposed expansions of programs in defense and health.



*Flo King International, Inc., has appointed PMD Ltd., Chemical Division, Coventry, England, U.K., as the exclusive distributor and repair center for Flo King Filtration Products in England, Scotland and Ireland. In the photo at left, Mark Naylor (left), managing director of PMD Group, welcomes Dave Roach, CEF, president of Flo King International, Inc., to the PMD Chemical Division plant in England. Roach was there to teach a sales and repair training seminar. The group photo shows the PMD employees who attended the seminar: Mark Naylor, Vic Reader, John Tolliday, Mark Blakely, Jez Ogden, Phil Norris, Stuart McDonald, John Greenhalgh, Steve Lord, and Glynn Price.*

As a result of September 11 events, federal expenditures on R&D will be even greater, especially in the areas of intelligence information and improved methods for the interpretation of such information. Other areas include electronics for computers and telecommunications, and pharmaceuticals and medical delivery systems using specialized capabilities in vaccine development and administration.

On the industrial side, while the total amount is significant, the rate of increase is somewhat less than has been experienced in recent years, a reflection of the economy.

The economic downturn—partially related to the stock market, cash flow, discounted interest rates, and to the perception and anticipation of difficult times—will have an adverse effect on both funding of R&D and the distribution of the funding across different performing sectors. Historically, inflation-adjusted reductions in R&D funding have resulted in periods of retrenchment that lasted over a few years. However, this year's change in industrial support is primarily a change in the rate of growth, and a period of adjustment.

The complete forecast is published in the January issue of *R&D Magazine*.

## Company News

❑ Cornerstone Systems, Inc. (CSI), Crystal Lake, IL, has announced that its software Visual Shop™ can be previewed and tested on line ([www.ask4csi.com](http://www.ask4csi.com)) without downloading or installing the software. The demos are accessible with a 56K modem through a web browser 24 hours a day.

❑ Cooling Technology, Inc., Charlotte, NC, has named QED, Inc., also of Charlotte, as

its sales agent. QED has been serving the plastics industry for more than 20 years. It will continue to serve the plastics and synthetic fiber industry in North Carolina, South Carolina and Virginia, along with representing the product line of CoolingTechnology, a manufacturer of mold temperature control units, chillers and systems.

❑ Webster Pumps, Frankfort, KY, and Hayward Industrial Products, Inc., Elizabeth, NJ, have reached a definitive agreement for Hayward to acquire Webster. The announcement said that, initially, Webster Pumps will continue as a stand-alone business.

Hayward manufactures industrial valves, actuators, strainers, gas/liquid separators and filtration systems.

❑ Bales Mold service, Inc., Downers Grove, IL, has achieved certification for ISO 9002 quality management standard. The company is among a few full-service polishing and plating companies in the U.S.

❑ METFAB Technologies, Inc., Warwick, RI, has hired Jack Henderson as a manufacturer's representative. He has more than 40 years' experience in the electroplating industry. METFAB specializes in reel-to-reel plating equipment.

❑ Ondeo Nalco has formed the PermaCare Membrane Separations Group to develop and support its range of proprietary products used for water treatment and process chemicals.



*Jack Henderson*

❑ Bates Abrasives, Inc., a manufacturer of cutoff and grinding wheels, has built a 42,000 ft<sup>2</sup> manufacturing facility in Burlington, WA. The building gives the company additional manufacturing, engineering and warehouse capacity. The expansion will also allow the company to continue its policy of manufacturing all of its products in the U.S.

❑ AMETEK, Inc., Paoli, PA, has acquired Instruments for Research and Applied Science (IRAS) from PerkinElmer, Inc. IRAS is a developer and manufacturer of analytic instrumentation. The purchase price was reported to be \$63 million.

❑ MacDermid, Inc., Waterbury, CT, has named John Malfettone executive vice president and chief financial officer. Malfettone was formerly with General Electric.

❑ Sermatech Technical Services has changed its name to Sermatech Power Solutions. The change was made to more accurately portray the company's role within the power industry, and its expanded product line. **P&SF**

### Answers to I.Q. Quiz #371

1. Contact resistance
2. a, b, c. Yes, platinum group metals (a) are applicable.
3. d. Copper alloys
4. a, b. In decorative applications, copper is not a final-layer application.
5. a, c, d. Zinc does not apply.