

SUR/FIN 2005

A preview of technical and business sessions to be held from June 13 to 16 at America's Center in St. Louis.

SUR/FIN is the worldwide focal point for the surface finishing industry. This major international conference provides the best venue to explore the newest technology and practical applications for surface finishing. It is the premiere event at which the science of surface finishing is advanced—the place where professionals can share ideas and experiences to help one another solve industry problems and improve productivity.

This year SUR/FIN will also host the annual AESF Airline/Aerospace Plating and Metal Finishing Forum, the annual AESF/U.S. EPA Conference on Environmental and Process Excellence, and a new Nano Plating Colloquium.

SUR/FIN's session content has been broadened to include both technical as well as business sessions:

- "The Global Economy: Management Challenges for Surface Finishers";
- "Global Environmental Drivers Demanding Change";
- "Airline/Aerospace Surface Finishing Challenges";
- and "Emerging Technologies."

SCHEDULE OF EVENTS

SATURDAY, JUNE 11

8 a.m.–3 p.m.

SFIC Board of Directors Meeting

8 a.m.–5 p.m.

Wastewater Treatment & Control Workshop

SUNDAY, JUNE 12

8 a.m.–5 p.m.

AESF Board of Directors Meeting

Wastewater Treatment & Control Workshop

This two-day workshop will provide wastewater treatment operators with much knowledge necessary to become licensed operators. The basic chemistry principles that a wastewater treatment operator needs to know are covered, along with detailed information on commonly employed methods of meeting wastewater discharge standards.

9 a.m.–12 p.m.

NAMF Committee Meetings

12 p.m.–4 p.m.

NAMF Executive Committee Meeting

4 p.m.–7 p.m.

MFSA Executive Committee Meeting

MONDAY, JUNE 13

7:30 a.m.–4 p.m.

Registration Open

Exhibitor Set-Up

8 a.m.–2 p.m.

NAMF Board of Directors Meeting

8 a.m.–5 p.m.

4-day Training Course in Electroplating

This four-day course provides a comprehensive overview of numerous plating processes and their associated sciences and a clear understanding of metal finishing technology, permitting the student to understand specifications, avoid routine finishing problems, evaluate product output, and expediently resolve process difficulties.

2-Day Powder Coating Seminar (With the cooperation of TIGER Drylac)

Day 1—Powder Coating 101: I. Powder Chemistries; II. Powder Manufacturing; III. Laboratory Capabilities; IV. Powder Application Methods; V. Powder Trouble Shooting.

Please note that this seminar is not an AESF Course and no CEU credits will be awarded

AESF Committee Meetings

Please note that these meetings are subject to change.

Regulatory Compliance Workshop

Reading, understanding, and complying with regulations in the surface finishing industry can be a real headache for the most conscientious compliance manager. That is why the AESF joined with NAMF and MFSA to create the *Guidance Manual to Environmental Compliance*, the textbook used in this workshop, which covers most all regulations and provides detailed instructions for compliance. Because regulations can change rapidly and be subject to local interpretation, you need this course to keep your manual up to date and current with local interpretations.

8:30 a.m.–2:30 p.m.

MFSA Committee Meetings

8:30 a.m.–11:30 a.m.

ASTM Subcommittee F07.04 on Hydrogen Embrittlement

1 p.m.–4:30 p.m.

SAE Committee-J (Maintenance Materials)

1 p.m.

AESF St. Louis Branch Golf

AESF Council of Delegates

2 p.m.

TRACK I – NANO PLATING I

Session Organizer: Dr. Paco Gonzalez

- #72 “Electroplating in the Context of Worldwide Nanotechnology Initiatives”
U. Erb, Materials Science and Engineering, University of Toronto, Toronto
- #73 “Synthesis, Structure, and Properties of Nanocrystalline Ni-P Electrodeposits”
U. Erb,¹ Y. Zhou,¹ K.T. Aust,¹ F. Gonzalez,² and G. Palumbo², ¹Department of Materials Science and Engineering, University of Toronto; ²Integran Technologies, Inc., Toronto
- #30 “Are Direct Current Chromium Deposits Nanogranular?”
Craig V. Bishop, Allen R. Jones, Agnes Rousseau, and Charles McFarland, Atotech U.S.A., Rock Hill, S.C.
- #32 “Composite Nanomaterials: Contribution of Chromium Electrodeposition”
Patrick Benaben, Ecole Nationale Supérieure des Mines, Saint-Etienne, France
- #27 “Microribbons in Hard Chromium Electrodeposits”
Allen R. Jones and Craig V. Bishop, Atotech WW R&D
- #90 “Nanocrystalline Cobalt-Phosphorus Alloy Coatings for Chrome Replacement within the Aerospace Industry”
J.L. McCrea, S. Kim, D. Jeong, F. Gonzalez, and G. Palumbo; K.O. Legg; B.D. Sartwell, Integran Technologies Inc., Rowan Technology Group, Naval Research Laboratory, Toronto; Libertyville IL; Washington, DC

TRACK IV – ELECTROLESS PLATING

Session Organizer: Ron Duncan

- #13 “Electroless Nickel and the End-Of-Life Vehicle Directive”
Ronald Duncan, Palm International, Inc., LaVergne, Tenn.
- #28 “Converting to Lead-free, Cadmium-free Electroless Nickel”
Kimberly Tress, Heatbath Corp., Springfield, Mass.
- #38 “Wear and Friction Reduction Using Improved Ni-B Electroless Coatings”
Y.W. Riddle & T.O. Bailer, Universal Chemical Technologies, Stuart, Fla.
- #50 “The EDEN System for Electroless Nickel Bath Life Extension and Consistent Quality”

Peter Longfield and Graham Orgill, Atotech USA, Inc. and Atotech U.K. Ltd., Rock Hill, S.C. and West Bromwich, U.K.

- #59 “Effectively Problem Solving an Electroless Nickel Plating Operation”
Brad Durkin, MacDermid, Inc., Waterbury, Conn.
- #89 “Lead and Cadmium Free Electroless Nickel Processes for the 21st Century”
David Crotty, Ph.D., Macdermid, Inc., New Hudson, Mich.

2:30 p.m.–5:30 p.m.

MFSA Board of Trustees Meeting

TUESDAY, JUNE 14

7:30 a.m.–5 p.m.

Registration Open

8 a.m.–5 p.m.

4-day Training Course in Electroplating Regulatory Compliance Workshop Powder Coating Seminar

Day 2—Powder Coating 102: I. Cleaning & Pretreatment; II. Powder Coating Application Equipment; III. Powder Coating Sales

8 a.m.–9 a.m.

CEF Recognition Breakfast

AESF will be honoring all surface finishing professionals who have achieved the AESF's Certified Electroplater-Finisher designation with a special CEF Recognition Breakfast. All CEFs will receive a distinguishing ribbon at the breakfast and all newly awarded Master Surface Finishers (MSFs) will receive special recognition along with their MSF pin. All CEFs and MSFs are strongly encouraged to attend.

8 a.m.–12 p.m.

AESF Committee Meetings

Please note that these meetings are subject to change.

9 a.m.

TRACK I – NANO PLATING II

Session Organizer: Melissa Klingenberg

- #74 “Development of Nanostructured Chromium-Free Conversion Coatings and Nanostructured Coatings with Enhanced Properties”
Julio Gomez, AVANZARE Innovación Tecnológica, Logroño (La Rioja) Spain
- #34 “Nickel and Cobalt-Based Nanocomposite and Nanostructured Alternatives to Chromium Coatings”
E.W. Brooman, Consultant, Materials & Manufacturing Directorate, Air Force Research Laboratory (AFRL/MLSC), Wright-Patterson Air Force Base, Ohio
- #10 “Electroplating Nanocomposite Films with an Impinging Jet”

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