National Association for Surface Finishing Annual Technical Conference 2006

(SUR/FIN 2006)

Milwaukee, Wisconsin, USA
18-21 September 2006

Managing for Six Sigma Success will provide a non-technical, conceptual overview of the tools and techniques of Six Sigma.

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Walt Wick, The HON Company

Lean Manufacturing System for a Surface Finishing Powder Coating Plant 17
Vijay Anand, IEC Coatings PTE Ltd.

Mathematical Model Based on Boundary Element Method N/A
Dr. Vijayan Murugai, Paint Process Technology Solutions Ltd., UK

Variable Air Exhaust System for Industrial Paint Booths 38
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Custom Masking: Expense or Investment? N/A
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The Basics of Surface Engineering by Isotropic Superfinishing Using a Traditional Vibratory Finishing Bowl 43
William P. Nebiolo, REM Chemicals, Inc.

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Dr. Robert Stango, Marquette University

Post-Shot-Peen Cleaning of Aerospace Parts with Citric Acid Solutions N/A
Stephen Gaydos, The Boeing Company

A Process Model for Surface Material Removal in Vibratory Bowls and Finishing Processes 72
Dr. Joseph Domblesky, P.E., Marquette University

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Edoardo Sura, RENAULT SAS

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Morten S. Jellesen, Lisbeth R. Hilbert and Per Møller
Functional Single-Cell Trivalent Chromium Electroplating Method 107
J. Willey, CEF, Everlast Coatings, Inc.

Direct Current Alternatives for Functional Chromium from Hexavalent Chrome N/A
Agnes Roussean, Atotech USA

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Craig V. Bishop, Atotech USA

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Dr. Marcelo Gines, MIT

Chromic Acid Etching-Free Plating Process Using ABS Alloy Resin 133
Toshimitsu Nagao, Okuno Chemical Industries Company, Ltd.
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Fred C. Schaedel, Alpha Process Systems

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Joseph K. Price, Sensory Analytics, LLC

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Jude M. Runge, Ph.D., CompCote International, Inc.

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Radu Rugescu
**Track III — Zinc & Zinc Alloys**

*September 19, 2006
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Chair: Dr. James Lindsay*

- **SEM Investigation of Zinc Whiskers on Hot-Dip Galvanized Coating and Bright Electroplating Coating** 280
  Reima Lahtinen, VTT Technical Research Centre of Finland

- **Approaching Zero Discharge-In plant Evaluation of Zinc Thermal Diffusion Coating Technology—Phase I** N/A
  David Ferguson, U.S. Environmental Protection Agency

- **Characterization of Zinc Nickel Deposits Obtained from Acid and Alkline Electrolytes** 294
  Marc Mertens, Corrosion Resistant Coatings Group, Enthone

- **Alloying of Stacked Nickel/Zinc Films through Heat Treatment** 302
  Dr. Hideyuki Kanematsu, Suzuka National College of Technology

- **Development of Corrosion Resistant Silica Coating on Surface Modified Zinc Coated Steel** 310
  Prabhu Ganesan, University of South Carolina

- **Development of Sacrificial Zn-SN Coatings by Pulse Electrodeposition Process** 335
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Papers not available for this session.
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September 19, 2006
Tuesday Afternoon, 2 pm - 5 pm
Chair: Christian Richter

Emerging Regulations: An EU Perspective  N/A
Donald P. Gallo, Reinhart, Boerner, VanDeuren

Regulations Affecting the Metal Finishing Industry in Canada  N/A
P.J. Paine, Chemical Industries

The EU RoHS Directive and the Latest on Measurement Protocols and Testing Issues with Auto, Aerospace Electrical and Industrial Equipment, and Telecom  N/A
Joelie Zak, CEF-4, Scientific Control Laboratories

Chromium PEL: Compliance Update & Outlook  N/A
Jeff Hannapel, The Policy Group
Joelie Zak, CEF-4, Scientific Control Laboratories
OSHA, TBD

RpHS Testing Issues  N/A
Timothy McGrady, Serious Science

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Dr. Donna Lee Jones, U.S. Environmental Protection Agency (Invited)
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Tony Revier, Uyemura International Corporation

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Alan Gardner, MacDermid, Inc.
Laboratory Simulation of Copper Electroplating on Mild Steel Bolts  N/A
Estelle Udunma Nmereole

Comparative Evaluation of Stannous Sulfate and Methyl Sulfonate Baths  N/A
Dr. Sergey S. Kruglikov, S.S. Kruglikov Consultants

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Brad Staples, Atotech USA

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V. Branzoi, University of Bucharest

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Dr. Helmut Witteler, BASF AG

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Dr. Sergey S. Kruglikov, S.S. Kruglikov Consultants
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Christian Richter, The Policy Group

The Future of Surface Finishing: Materials and Technology  N/A
Peter A. Gallerani, MSF, AESF Fellow, Integrated Technologies, Inc.

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Dr. Andreas Moebius, Enthone, Inc.

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Keith Legg, Rowan Technology Group

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Dr. Gert Nelissen, ELSYCA

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Dr. Melissa Klingenberg, Concurrent Technologies Corporation
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Huw Williams, SERFILCO Europe, Ltd.

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Paul Brezovec, Concurrent Technologies Corporation

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Paul Brezovec, Concurrent Technologies Corporation

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Dr. Sergey S. Kruglikov, S.S. Kruglikov Consultants

The Use of Immersed Electrochemical Modules in Plating Industry 484
Dr. Sergey S. Kruglikov, S.S. Kruglikov Consultants

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Dr. Danielle Miousse, CEF-3, Global Ionix
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Dr. Chhabilal S. Rizal, Muroran Institute of Technology

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Dr. Chhabilal S. Rizal, Muroran Institute of Technology

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J. Rasmussen, Enthone, Inc./Cookson Electronics

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Dr. Yun Zhang, Enthone, Inc./Cookson Electronics

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J.M. Meza, University of Bolivia

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Dr. Melissa Klingenberg, Concurrent Technologies Corporation

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Frank-Holm Roegner, Fraunhofer Institute for Electron Beam and Plasma Technology

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Ric Wade, CEF, American Faucet & Coatings Corporation

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Scott Wade Powell, Powell Water Systems, Inc.

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Dr. Andreas Moebius, Enthone, Inc.

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John Fullen, M&PT

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A. Telukdarie, Durban Institute of Technology

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Dr. Xavier Ventura
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Saied Hamid Hashemi, University of Esfahan, Iran

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Dr. Amnon Vadasz, C.A. Tecnologia Aplicada

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Nicole S. Micyus, MacDermid, Inc.
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Chair: Bill Saas

Emerging Pretreatment Technology — Vanadate Conversion Coatings  
Ken Kaluzny, Coral Chemical Company

The Evolution of Hexavalent Chromium-free Passivation Systems  
Linda M. Wing, Enthone Inc.

Alternatives to Hexavalent Chromium to Comply with European Union’s Directives (ELV, RoHS & WEEE)  
Harish Bhatt, METALAST International, Inc.

Alternatives to Hexavalent Chromates  
Doug Lay, CEF-2, Taskem
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Kevin Klink, P.E., Integrated Technologies, Inc.

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Kevin Klink, P.E., Integrated Technologies, Inc.

Real Time MRP Front End for Plating Line Operations  N/A
Dave Mason

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Craig Pierce

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Greg Arneson
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Carlos Dominguez-Rios, Center of Research in Advanced Materials

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Christopher Ringholz, Atotech

Throwing Power of Copper Sulfate Plating Baths 899
Dr. Sergey S. Kruglikov, S.S. Kruglikov Consultants

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