

2009 TOPCON SOCIETY OF VACUUM COATERS CALL FOR PAPERS TOPICAL CONFERENCE ALBUQUERQUE, NM • NOVEMBER 3-5, 2009

ADVANCED COATING TECHNOLOGIES FOR CORROSION/EROSION AND DECORATIVE COATINGS

ALTERNATIVES FOR ELECTROPLATING TECHNIQUES

Over the last 20 years major advances in technology and high volume equipment have led to commercialization of many new coatings using Physical Vapor Deposition (PVD), Plasma Enhanced Chemical Vapor Deposition (PECVD) and other coating techniques. These dense coating systems include: metals, hard and thick oxides, nitrides, carbides, carbonitrides, and diamond-like-carbon (DLC) as well as composite coatings such as nanolayers and nanodispersions that provide exceptional performance in corrosion, erosion, wear and decorative applications. The economic and environmental costs to society by corrosion, erosion, and wear are very high, and new coating systems are now playing a major role in reducing these costs, as well as opening new markets and providing attractive environmentally friendly solutions.

Some examples of high volume coatings for industrial applications are:

- **Automotive** – engine bearings, turbo-charger bearings, piston rings, transmission components, forward and rear lighting, wheels, trim
- **Aerospace** – engine compressor blades, coated high strength steel, abrasion protection on plastics, trim, lighting, electronic shielding, aluminum coated fasteners
- **Energy/Military** - tubes and pipes with interior and exterior coatings
- **Consumer Products** – white goods, lighting, cosmetics, electronics
- **Raw Stock** - continuous strip – zinc alloys, aluminum and nickel on metal strip

This conference will discuss existing and potential applications of advanced coating technologies for high volume and demanding applications in the various industries, as well as offer a unique forum for discussing these subjects from both fundamental and industrial perspectives. Particular emphasis will be given to alternative technologies, which are aimed to replace wet chemical methods.

KEYNOTE AND INVITED SPEAKERS FOR THE 2009 TOPCON:

Keynote Presentation

The Role of Corrosion Resistant Materials in the Proposed Yucca Mountain Repository

Presented by F. Doug Wall, Sandia National Laboratories, Albuquerque, NM

- › **Plasma Enhanced PVD Technologies for Hexavalent Chrome Elimination in Gun Barrels**
Presented by Sabrina L. Lee and Gregory Vigilante
US ARMY RDECOM - ARDEC - Benét Laboratories, Watervliet, NY
- › **HVOF Thermal Spray Coatings as a Replacement for Hard Chrome Plating in the Aerospace Sector**
Presented by Bruce D. Sartwell
Department of Defense, Strategic Environmental Research and Development Program, Arlington, VA
- › **Can PVD Coatings Replace Hard Chrome?**
Presented by Keith Legg
Rowan Technology Group, Libertyville, IL
- › **Tribological Coatings for Automotive Products and Manufacturing Processes**
Presented by Ahmet T. Alpas
NSERC and GM of Canada Industrial Research Chair on Tribology University of Windsor, Windsor, Ontario, Canada
- › **Combination of Vacuum Processes and Electroplating in Innovative Decorative Coatings**
Presented by Javier Barriga
TEKNIKER, Gipuzkoa, Spain
- › **New Trends in Surface Treatment Technology for Decorative Chrome Plating Replacement**
Presented by Jaume Amigó
Sidasa Units Coating Group, Barcelona, Spain

ALSO FEATURING TABLETOP EXHIBITS AND TUTORIALS! LEARN MORE AT WWW.SVC.ORG



200-WORD ABSTRACT DEADLINE HAS BEEN EXTENDED TO JULY 15, 2009

Use the On-line Abstract Submission Procedure at www.svc.org/topconabstractreg.cfm

For more information on the 2009 SVC TopCon, visit www.svc.org or send an E-mail to: topcon@svc.org
Society of Vacuum Coaters • 71 Pinon Hill Place NE • Albuquerque, NM 87122 • 505/856-7188 • Fax 505/856-6716

2009 TOPCON SOCIETY OF VACUUM COATERS TOPICAL CONFERENCE EXHIBIT & TUTORIALS ALBUQUERQUE, NM • NOVEMBER 3-5, 2009

2009 TOPCON REGISTRATION FEES:

- > SVC Member: \$325
- > SVC Non-Member: \$400
- > Student (Member or Non-Member): \$95
- > Presenter (Member or Non-Member): \$235
(Presenter rate does not apply to co-authors)
- > Student Presenter (Member or Non-Member): \$35
- > Invited Presenter (as per Program Committee): \$0
- > Tabletop Exhibit Representative: \$0

Conference registration includes full access to the 2-day Topical Conference. On-line Registration will be open in July, 2009 at www.svc.org.

TABLETOP EXHIBITS

SVC is offering a limited number of Tabletop Exhibits. They will be on display from 4:30 p.m. on Tuesday, November 3 until 4:00 p.m. on Thursday, November 5 in the room where all breaks and the Welcome Reception will be held. The cost to exhibit includes recognition on the TopCon section of the SVC Web Site and in the Conference Program. It also includes one complimentary conference registration, one 8' x 30" draped table, electrical outlet (upon request), and complimentary wireless internet. **Tabletop Exhibit: \$500**

TUTORIALS

Several of the most popular Tutorials from the SVC Education Program will be presented on November 3rd and 4th. Visit the SVC Web Site for details on the Tutorials that will be presented as part of the 2009 TopCon.

SPONSOR THE TOPCON

Sponsorships are available for the 2009 Topical Conference in Albuquerque. Choose from three sponsorship levels: **Platinum, Gold and Silver**. Each level offers unique sponsor benefits and opportunities for corporate recognition at this important SVC event. Visit the SVC Web Site for details.

TOPCON HOST HOTEL

The Albuquerque Marriott (Uptown)

Room rate is \$99/\$109 single/double plus taxes.

Located in the heart of the ABQ Uptown restaurant and shopping district, with fabulous views of the Sandia Mountains, the newly renovated Albuquerque Marriott welcomes you to the "Land of Enchantment". You're only steps away from shopping, movie theatres, and restaurants and minutes from the Albuquerque Sunport, Historic Old Town and the Sandia Peak Tram. This central New Mexico location also allows plenty of options for one-day or multi-day trips to Santa Fe, Taos, Carlsbad, White Sands National Monument, Acoma Sky City Pueblo, Bandelier National Monument (Los Alamos), Turquoise Trail National Scenic Byway, and Bosque del Apache National Wildlife Refuge. Visit www.newmexico.org for more information on these and other attractions.



For more information on the SVC TopCon, please contact the 2009 TopCon Program Chair:
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E-mail: topcon@svc.org • Web Site: <http://www.svc.org/ConferencesExhibits/2009-TopCon--Exhibit.cfm>

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