

EDITOR'S NOTE

- **Learn Today, Lead Tomorrow!**

— Darrell J Reeve

What is the industry that we all belong to? Many of our readers will think it is electroplating, painting and powder coating technologies and equipment to suit. Well, in actual fact, it is much broader and more comprehensive than that and includes metal casting and plastics extrusion, component fabrication, de-burring, grinding, polishing (including bright dipping and electro-polishing), pre-treatment systems, coatings and metal stripping, all forms of electroplating, chemical deposition, mechanical plating, hard surfacing (hard chromium, electroless nickel, heat treatments), painting, powder coating, plasma coating, nano coatings, physical and chemical vapour deposition, lacquering, electro-phoretics, electronics coatings and others. [\(Click to Read the magazine\)](#)

COATING APPLICATIONS & PRODUCTS

- **Electrostatic Coating**

Advances in Electrostatic Coating of Non-Conductive Substrates: Wet Painting & Powder Coatings (Part 2)

— W.S. Gutowski, S.Li, L.Russell, C.Filippou, Mark Spicer, CSIRO Manufacturing Flagship, Australia

In the last issue, we mentioned there is a need to develop a simpler technology, not requiring surface preactivation of polymeric substrate by flame treatment, whilst simultaneously providing high surface conductivity and good coating adhesion to the surface of coated and originally non-conductive products to facilitate adoption of this highly efficient electrostatic powder coating or, where relevant, electrostatically-assisted wet painting for the reduction or eradication of hazardous solid wastes, waste of water and VOC emissions. [\(Click to Read the magazine\)](#)

ELECTROPLATING & PRODUCT FINISHING

- **Technology & Innovation**

Innovative Metallization of Plastic Components: Bright Prospects for the Environment

— Oerlikon Balzers, Liechtenstein

Everything that sparkles, glitters and shines attracts the attention of us humans. Not for nothing are products containing attractive metal-look components in vogue, and often perceived to be of high quality. Cars and electrical devices, the kitchen and the bathroom all contain fine chrome-look plastic parts. The commonest chrome plating methods however pose hazards to the environment and people, especially the chromium (VI) compounds used in galvanic coatings. From 2017, the European Union REACH regulation shall prohibit the use of chromium (VI) compounds. Oerlikon Balzer's new ePD technology metallizes plastic parts in an environmentally and healthfriendly way. [\(Click to Read the magazine\)](#)

- **Metal & Alloy Plating**

Zinc Nickel Alloy Plating Process is Emerging to be the Best Zinc Alloy in Automotive Finishing

— S. Chakraborty, Grauer & Weil (India) Ltd., India

Electro deposition of zinc and its alloys are widely employed in the automotive industry for its non-toxic behavior and also for sacrificial corrosion protection ability towards the ferrous substrates. It is often observed that the true zinc deposits do not meet the ever increasing demands of automotive industries for achieving highest degree of corrosion resistance and thereby, enhancing more service life for the produced vehicles. [\(Click to Read the magazine\)](#)

- **Environmental Challenges**

Green Logistics for Surface Finishing

— Mr. Darrell J. Reeve, UNEP / UNIDO Consultant in Metal Finishing

The theory and practice of Logistics is currently sweeping the academic and commercial world and is becoming a major driver in future directions for manufacturing industries. It has applications on the local scale right up to global implications where great potential savings in time, energy and transportation can be achieved for us all. It is really all about location, transportation and optimization to make the most out of all resources. [\(Click to Read the magazine\)](#)

Regular Columns

Clinic [\(Click to Read the magazine\)](#)

Product Showcase

- UV Curing Units for Industrial Coatings on Three-dimensional Components
- Innovation for the Pre-treatment in Coil Coating [\(Click to Read the magazine\)](#)

Industry News

- Axalta Coating Systems Coats Latest Generation Trucks for Australian Army
- AkzoNobel Opens New Decorative Paints Site in Western China [\(Click to Read the magazine\)](#)

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NOTE:

SFJ is published and printed in Hong Kong SAR.
Surface Finishing Journal (SFJ) is published by Sinostar-ITE Int'l Ltd., with its registered office at 2101-2, 21/F., Jubilee Centre, 42-46 Gloucester Road, Wanchai, Hong Kong. SFJ is published in four issues a year, in the middle of March, June, September and November.
ISSN of SFJ: 1682-4644