



CURRENT ISSUE

March 2020

PUBLICATION DATE

March 15, 2020

Content

Editor's Note

Colouration without Colourants

— Prof. Long Lin

I hope that readers will feel being in for a treat when reading this issue. Both papers on applications of nano-technology, in this issue, are of very high qualities of science and technology. But it is the one on nano-colouration that excited me the most!

Insider View

Environmental Protection is not just a Trend, but the Corporate Social Responsibility (CSR) for Next Generation

— Sally Yick, Managing Editor, China Coatings Journal

It is necessary to maintain a healthy planet in order to continuously provide products to satisfy customers. Many industry players have started to believe that it is important to manage the environmental impact in the product life cycle. Corporates are trying to reduce the environmental impact of the entire value chain and operate business activities with sustainability in mind.

Industry Focus

The Industry Across the Globe Met in 3 Days

CHINACOAT2019, the 24th edition of its series, concluded with a record-breaking net exhibit size on November 18-20 at the Shanghai New International Expo Centre (SNIEC), P.R. China. The exhibition results further strengthen CHINACOAT's status as the main platform where global coatings industry meets annually.

Market Watch

Technology Adoption in Paint and Coatings Industry

— Sally Yick, Managing Editor, China Coatings Journal

The global paints and coatings market value is forecasted to reach US\$204.83 billion in 2023, growing at a CAGR of 4.92%, for the period spanning from 2018 to 2023, according to a report released by ResearchAndMarkets. The factors such as escalating construction expenditure, growing automotive industry, increasing urban population, rising household consumption expenditure and improving economic conditions are expected to drive the market growth. However, the growth of the industry would be challenged by increasing raw material prices and stringent regulations.

UV Curing Technology

Breakthrough in Furniture Coating with UV LED Curing

— Thomas Efsen, Efsen Engineering, Denmark

First intelligent UV-LED based high-speed furniture coating line with inline UV monitoring and control went into service. SC Freda, Lithuania's oldest furniture company founded in 1880, has started production on their new high-speed furniture coating line. SC Freda specialises in manufacturing flat pack furniture from chipboard, MDF and cellular lightweight construction panels.

Nano Technology

Structural Colouration – A New Approach for Paint Colouration without Pigments

— M.J. Yanjarappa, Manager, Physical & Analytical Center, AkzoNobel India Ltd., International Research Center, Bangalore, India; Luo, Y. (Louie), ASC Regional Solution Lab Manager, VR/CV Asia, AkzoNobel Performance Coatings (Changzhou) Co., Ltd., P.R. China

Biomimicry is a process of emulating structures, patterns and strategies found in nature to achieve breakthrough solutions for modern issues. Structural colouration is well known in natural systems by which butterfly wings, peacock feathers, beetle shells etc attain colour through physical interaction of the visible light with well defined nanostructural bio-surfaces. Taking inspiration from structural colour concept, herein, we report a method to obtain colour through self-assembly of synthetic polymer core-shell nanoparticles on metal substrate.

Development of Nano Transparent Functional Coatings

— Zhao Shilin, Xiang Shangjin, Fang Xianli, College of Materials Science and Engineering, Nanjing Tech University, Nanjing, P.R. China

Nano powder and nano technology can be used to prepare nano optical functional coatings, among which the most valuable application is nano transparent functional coatings and related products, including: nano transparent thermal insulation coating, coated thermal insulation glass, transparent thermal insulation film, transparent thermal insulation plastic board.

Regular Columns

Trade Shows & Forums

Advertisers' Index



SINOSTAR-ITE INT'L LTD.

2101-2, 21/F., Jubilee Centre, 42-46 Gloucester Road, Wanchai, Hong Kong

Email : info@sinostar-intl.com.hk

Tel : (852) 2865 0062

Fax : (852) 2804 2256