



## CURRENT ISSUE

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## Content

### Editor's Note

#### Sustainability through Focused Improvements

— Prof. Long Lin

In a world that is increasingly addicted to the instant gratification of a fast return on investment, it is comforting to see the continuation of the pursuit of fundamental knowledge and deep understanding of the science that underpins even the 'simplest' of phenomena. The benefits of understanding the fundamental principles and mechanisms of phenomena go well beyond empowering mankind to solve technical problems.

### Waterborne Coatings

#### Enhancing PUD Coatings with Capa® Polycaprolactone Polyols: A Comparative Study

— Shaun Birss and Sarah Findlater, Ingevity, U.S.A.

Polycaprolactone polyols exhibit a balanced set of properties compared to other polyol chemistries, including improved processability, which allows formulators to reduce prepolymer viscosities without the need for volatile solvents.

### Market Watch

#### Paint and Coatings Industry: Status and Prospect

— Wang Zhifeng, Senior Engineer, Architectural Design and Research Institute; Hu Jianqing, Professor, Zhuhai Modern Industrial Innovation Research Institute, South China University of Technology, Guangdong, P.R. China

In 2023, global coating production will be approximately 47 billion litres, with a market size of approximately US\$197 billion. Among them, architectural decorative coatings accounted for more than 40%, about 25 billion litres, totaling US\$80 billion.

### Pigment

#### The Science and Art of How to Disperse Carbon Black Pigment: Pigment Dispersion Process and Colouristic

— Carlos Hernandez, Marketing Manager Coatings & Printing Systems – Americas, Specialty Carbon Blacks, Orion Engineer Carbons LLC

During the formation process, we initially have primary particles formed, then these particles form aggregates by covalent bonds, and finally the agglomerates are formed by Van der Waals forces.

### Automotive Coatings

#### Increasing Demand for Automotive Coatings to Enhance Durability and Appearance of Automobiles

— Sally Yick, Managing Editor, China Coatings Journal

According to Fortune Business Insights, the global automotive coatings market size was valued at USD 23.72 billion in 2023 and is expected to grow from USD 25.94 billion in 2024 to USD 57.27 billion by 2032, with a compound annual growth rate of 10.4% during the forecast period. The Asia-Pacific region dominated the automotive coatings market with a market share of 46.12% in 2023.

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