



## CURRENT ISSUE

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## Content

### Editor's Note

#### High Throughput Formulation Screening

— Prof. Long Lin

Some readers may be aware that automated screening systems have been available to drug discovery communities for decades. Such systems have been widely adopted by pharmaceutical industry and have helped speed up drug development process. Indeed, the rapid discovery of vaccines for COVID-19 virus is due, in no small part, to the contribution of automated drug discovery systems. With the advances in machine learning and artificial intelligence, there has been an increase in the desire for large volume, high quality data. With the help of advances in sensor technologies, automated high throughput discovery systems can indeed allow the increase of volume of data in two dimensions.

### Market Watch

#### The Perfect Storm: Raw Materials and the Need for Supply Chain RESILIENCE

— George R. Pilcher, The ChemQuest Group, Inc., USA

If you are either a producer or user of specialty chemicals, or are in any area of the manufacturing sector, you probably don't need me to tell you that, as of the end of May, 2021, the entire supply chain is a mess.

### Biobased Technology

#### Biobased Alkyd Emulsion with Outstanding Performances for Architectural and Industrial Coatings

— Dr. Moreillon Olivier, Dr. Faye Ibrahima, Dr. Romand Alison, Choulet Olivier, Florent Nicolas, Ecoat, France

The global paint and coating industry, like our modern economies, is facing sustainability and global warming challenge. As a result, the consumer society is seeking increasingly ecofriendly products. Therefore, technologies using less, or even no, volatile organic solvents have been widely investigated in order to develop water-borne, high solids, powder or radiation cure technology. In this context, waterborne alkyd coatings are making a huge comeback, due to being based on a binder obtained by polycondensation reactions of renewable raw materials.

### Regional Updates

#### In China for China: Coatings Suppliers Step up in Post-COVID Era

— Sally Yick, Managing Editor, China Coatings Journal

Paint can be divided into liquid or solid. When a paint is spread on a surface, it adheres to the surface and harden to form a film that can protect, decorate or add other desired features to the surface on which it is deposited. According to the "Global Paints and Coatings Market 2021-2026 Research Report" published by 360researchreports, the global paints and coatings market size is projected to reach USD 267,760 million by 2026, from USD 205,610 million in 2020, at a CAGR of 4.5% during 2021-2026.

### Polyurethanes

#### Isocyanate-Free Polyhydroxy Urethanes for Water-Borne Coating Applications

— Michael Schmitt, HS Niederrhein, Krefeld, Germany; Selina Gomoll, FEW Chemicals, Germany; Serbest Sheikhmous, HS Niederrhein, Krefeld, Germany; Christian Schmitz, HS Niederrhein, Krefeld, Germany; Uwe Müller, Wood KPlus, Austria; Veronika Strehmel, HS Niederrhein, Krefeld, Germany; Bernd Strehmel, HS Niederrhein, Krefeld, Germany

Polyhydroxy urethans possess the potential to complement the portfolio of PUR coatings and related applications. We describe a promising procedure to obtain waterborne isocyanate-free urethane comprising polymers and their use for coating applications.

### Pigments

#### Digging for Iron and Hitting on Gold!

— Dr. Rami Ismael, ARALON COLOR, Germany

This paper introduces daylight fluorescent pigments and moisture sensible UV fluorescent pigments for paints, printing inks, adhesives, resins, and plastics. We could not imagine 8 years ago, once we approved the final plans for our major strategic long-term R&D project moving away from formaldehyde based fluorescent pigments, we are going to find, what forms the pillars of our technical advancement today.

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