



## CURRENT ISSUE

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## Content

### Editor's Note

#### Sustainability, Sustainability, Sustainability

— Prof. Long Lin

In one of my past editorials for CCJ, I emphasised the danger of inks and coatings industries being squeezed out of raw material supply market and consequently out of business by high profit-margin industries such as pharmaceutical industries that share the demands for chemical raw materials derived from fossil oil.

### Market Insight

#### Sustainability in the Paints and Coatings Industry: The Only Way Forward

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

For roughly 5,760 of the 6000 years that human civilisations have actively occupied the Planet Earth, man depended upon wood and peat as sources of material to be burned for both heat and light. Only for the past 240 years have fossil fuels (e.g., coal; crude oil and its various derivatives; natural gas; and bitumen) played a significant role in civilised societies, and — of this short timespan — they have only played major, "front and centre" roles in the generation of power for less than a century-and-a-half.

### Waterborne Coatings

#### Different Approaches to Achieve a Better Wetting of Waterborne Coatings

— Dr. Guillaume Jaunky, Fan Leiping, Mark Heekeren, Dr. Marc Eberhardt, BYK, Germany

Coatings are multi-component systems and surfaces/interfaces have a strong influence on their quality. Surface defects often occur during and after coating application, and degrade both the optical properties of the coating and its ability to protect the substrate. Most common defects are poor substrate wetting, non-optimal flow (orange peel) and crater formation.

### Emulsions

#### Classical and New Application Fields for PU-Modified Alkyd Emulsions

— Caroline Matthiesen, Export Manager, WorléeChemie GmbH, Germany; Florian Ninnemann, Lab Manager for Waterborne Binders, WorléeChemie GmbH, Germany; Jin Qiqi, Laboratory Manager, Worlee (Shanghai) Trading Co., Ltd.

In the last decade, polyurethane modified alkyd emulsions made an important contribution for the change from solvent based alkyd systems to water based systems with comparable or even better performance. Although Worlée's surfactant free emulsions are mainly used as sole binder in high gloss decorative, industrial and architectural maintenance paints, there are diverse application possibilities.

### 3D Printing

#### New Universally Applicable Abrasive Mix: Process-Reliable and More Efficient Surface Finish for 3D Plastic Parts

— Rösler Oberächentechnik GmbH, Germany

With its latest development of a new media type for post processing of thermoplastic components, printed with the MJF (Multi Jet Fusion) and SLS (Selective Laser Sintering) technology, AM Solutions – 3D post processing technology is further expanding its product portfolio.

### Regular Columns

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