LOOKING FOR TRAINING FOR YOUR EMPLOYEES?

ONE DAY ADD ON COURSE - AVAILABLE WITH ANY 2-DAY SHORT COURSE OPTION

Fundamentals of Coatings

Course Purpose: To provide entry-level coatings chemists an understanding of the basic principles of coatings; their use, design, formulation, and manufacture. It is structured to provide attendees an elementary introduction to coatings. The course will discuss fundamentals of ingredients used in coatings manufacture, i.e., polymers, pigments, additives and solvents.

Who Should Attend?

The first day’s course material is ideal for new entrants to the coatings industry as well as anyone needing a refresher prior to the more intensive 2-day course. It will also benefit anyone not fully conversant with basic principles and coatings components.

Important Dates

BASIC LEVEL: THE FUNDamentals of COATINGS (1 DAY ADD ON COURSE)

*This an optional 1-day add on the 2-Day Short Courses. Not available individually.

BEGINNER LEVEL: THE SCIENCE OF FORMULATING

INTERMEDIATE | ADVANCED LEVEL: REFORMULATING TO WATERBORNE COATINGS

STATISTICAL DESIGN OF EXPERIMENTS

Addresses the challenges of reviewing the latest in coatings science. Accelerate new careers in coatings with our basic short course or catch up with current scientific literature in our more advanced short courses.

THE WATERBORNE SYMPOSIUM

SCHOOL OF POLYMER SCIENCE AND ENGINEERING
THE UNIVERSITY OF SOUTHERN MISSISSIPPI

SHORT COURSES

February 24 - 26

2019

New Orleans, LA USA

WATERBORNE SYMPOSIUM

118 College Dr. Box 5169
Hattiesburg, MS USA 39402
waterborne@usm.edu
601.266.4475
STATISTICAL DESIGN OF EXPERIMENTS

Course Organizers:
Sarah Morgan and Les Goff

Course Purpose:
To provide chemists in the coatings industry with the knowledge and skills to apply statistical design of experiments in formulation and product development.

Course Description:
This hands-on two-day course provides an introduction to the theory and practice of statistical design of experiments (DOE) through application to real-world examples. Types of designs and appropriate choice of design for specific problems, setting up and executing designed experiments in a cost and time-effective manner, and data analysis through graphical and statistical test methodologies are introduced through lectures and activities. Statistical software methodologies are demonstrated for the design and analysis of contemporary product development problems.

Who Should Attend?
The course is designed for coatings chemists, formulators, and product developers interested in improving efficiency and effectiveness of the design process.

THE SCIENCE OF FORMULATION

Course Organizers:
James Rawlins and Shelby Thames

Course Purpose:
To provide entry-level scientists and coatings chemists an understanding of the principles involved in formulating coatings, and their use.

Course Description:
Coatings manufacture is challenging in its complexity as the ingredient list often contains more than ten items; all of which will interact, in some way, with other formulation ingredients. Formulating a good coating requires an understanding of the chemical interactions between the various coating ingredients, manufacturing technique, and the ability to troubleshoot problems. This short course seeks to impart a comprehensive understanding of pigments, resins, solvents, additives, formulations principles, calculations, and manufacturing techniques applicable to the coatings industry.

Who Should Attend?
This short course covers major coating types presented at a fundamental technical level, and is designed for entry-level chemists to the coatings industry, or as a refresher course for coatings scientists of any experience level.

REFORMULATING TO WATERBORNE COATINGS

Course Organizer:
Robson Storey

Course Purpose:
To provide formulators and chemists in the coatings industry an understanding of the principles involved in reformulating to a water-borne system.

Course Description:
This intensive, two-day course provides an introduction to the technology of waterborne coatings with an emphasis on the challenge of converting existing solvent-borne coating systems to water. It covers various popular coating types including acrylic latex, polyester/alkyd, two-component polyurethane, polyurethane dispersion, epoxy, and silicone. Additional topics include the use of additives, elimination of surface defects, rheology modification, pigments and pigment dispersions and application methods for waterborne coatings.

Who Should Attend?
The course is designed for coating chemists and formulators and for persons interested in new applications for waterborne coatings.

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