PACIFIC COATINGS SHOW & CONFERENCE
ADHESIVES – SEALANTS – CONSTRUCTION CHEMICALS

Pacific Coatings Show Conference

DAY 1 - 29 OCTOBER 2025 | 10:00 - 17:30 | JAKARTA INTERNATIONAL EXPO

10:00–10:30	OPENING CEREMONY & KEYNOTE BY MINISTRY OF INDUSTRY	
10:30–11:30	PACIFIC COATINGS SHOW CONFERENCE PANEL DISCUSSION	
11:30–12:15	KEYNOTE	KEYNOTE: PAINTING A SUSTAINABLE FUTURE *Johnson Onking, BOYSEN, Philippines*
12:20–12:50	REDUCING THE ENVIRONMENTAL IMPACT OF EPOXY RESINS *Kanes Songtirapunya, AGC Vinythai, Thailand*	
12:50–13:30	LUNCH BREAK	
13:30–14:00	MITIGATING TIO_2 COST, IMPROVING SUSTAINABILITY AND NOT REDUCING QUALITY *Andrew White, FP-Pigments, Finland*	
14:00–14:30	ANTI-POLLUTION PAINT IN BANGLADESH *Sk Emadul Bari, Berger Paints, Bangladesh*	
14:30–16:00	SHORT COURSE	TO BE ANNOUNCED
16:00–17:30	SHORT COURSE	DISPERSING: THEORY AND PRACTICE IN PAINT PRODUCTION *Dr. Hans-Johacim Jacob, ystral, Germany*

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DAY 1 - 29 OCTOBER 2025 | SHORT COURSE INTRODUCTION

DISPERSING: THEORY AND PRACTICE IN PAINT PRODUCTION
BY DR. HANS JOACHIM JACOB

Dispersing is the core process in paint and coating production. The better the dispersion, the higher is the efficiency of the dispersed ingredients and the better is the quality of the final coating. A perfect dispersion process is much more complicated than you might think.
This Short Course provides you with all the important information you need. Learn how the processes must be designed to ensure that your pigments, extenders, matting agents, thickeners etc. are optimally dispersed and do not re-agglomerate afterwards. Mechanical deagglomeration, wetting, dispersion and stabilization take place simultaneously. Therefore, a good dispersion result can only be achieved if all these sub-processes are carried out optimally. The combination of optimum technology and the right dispersing additives, added at the right moment is essential. To prepare you perfectly for your next dispersion, you will learn how these parameters depend on each other and how they can be influenced. Traditional and new dispersing technologies will be presented and compared.

Topics covered:
• What are the physical and process engineering basics of pigment dispersion?
• What can be done to prevent flocculation, re-agglomeration and shock effects?
• What machines and processes are available?
• What are the latest developments and current trends?
• What time, energy and cost savings can be achieved today?

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DAY 2 - 30 OCTOBER 2025 | 10:30 - 18:00 | JAKARTA INTERNATIONAL EXPO

10:30-12:00	SHORT COURSE **COATINGS 101: INTRODUCTION TO SCIENCE AND TECHNOLOGY OF COATING FORMULATIONS** *Prof. Raymond Fernando, California Polytechnic State University, USA*
12:00-12:30	**INLINE DISPERSION + VACUUM EXPANSION – TECHNOLOGY TREND IN PAINT PRODUCTION** *Dr. Hans Joachim Jacob, ystral, Germany*
12:30-13:00	**Acrylic for exterior coatings: Formulation versatility, durability, and dirt pick-up resistance** *Mei Ling Liew, Synthomer, Malaysia*
13:00-13:30	**Effects of colorants on solar reflectivity and rheology of exterior architectural coatings** *Prof. Raymond Fernando, California Polytechnic State University, US*
13:30-14:00	**PFAS-FREE NANOCOMPOSITE ADDITIVES TO REPLACE PTFE POWDERS** *Terence Yeo, Micro Powders, USA*
14:00-14:30	**LUNCH BREAK**
14:30-16:00	SHORT COURSE **FUNDAMENTALS AND CHARACTERIZATION OF CORROSION** *Dr. Eugene Caldona, North Dakota State University, USA*
16:00-16:30	**COFFEE BREAK**
16:30-17:00	**SUSTAINABLE ADDITIVES FOR WATER-BASED PROTECTIVE COATINGS IMPROVEMENT** *Dr. Bodan Ma, ICL/Halox, USA*
17:00-17:30	**HIGHLY ADHESIVE AND CORROSION-PROTECTIVE FLUOROPOLYMER COATINGS** *Dr. Eugene Caldona, North Dakota State University, USA*
17:30-18:00	**MEDIUM COLOUR AND BLUE UNDERTONE TINTING SOLUTIONS FOR INDUSTRIAL AND DECORATIVE PAINTS** *Ryu Jaewook, Birla Carbon Thailand, Thailand*

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DAY 2 - 30 OCTOBER 2025 | SHORT COURSE INTRODUCTION

COATINGS 101: INTRODUCTION TO SCIENCE AND TECHNOLOGY OF COATING FORMULATIONS BY PROF. RAYMOND FERNANDO

Designed for new coatings technology professionals, this course will provide an overview of fundamentals and approaches to formulating a wide variety of coatings. Important coating and raw material properties, justification and levels of raw materials, calculations, and rational approaches will be discussed. In addition, examples of solvent-borne, water-based, industrial, automotive and architectural coatings will be reviewed and discussed. Attendees will learn scientific and rational approaches for formulating coatings for optimum performance during full product life cycle.

FUNDAMENTALS AND CHARACTERIZATION OF CORROSION BY DR. EUGENE CALDONA

Corrosion poses a significant challenge across various industries, leading to unforeseen failures, costly repairs, and operational disruptions. Understanding its phenomenon, coupled with effective characterization approaches, is essential for developing more reliable mitigation strategies – especially in regions like the Pacific, where harsh environmental conditions make infrastructure particularly vulnerable. This short course will review the principles and mechanisms governing the corrosion of metals, with a focus on the broader application of coatings and inhibitors as one of the best technical corrosion-minimizing practices. The fundamental aspects of corrosion kinetics, electrochemical processes at the coating-metal interface, and a range of electroanalytical techniques used to evaluate both corrosion behavior and coating performance will be outlined and discussed.

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DAY 3 - 31 OCTOBER 2025 | 10:00 - 16:45 | JAKARTA INTERNATIONAL EXPO

10:00–11:30	SHORT COURSE	**TITANIUM DIOXIDE** *Andrew White, FP-Pigments, Finland*
11:30–13:15		**PRAYER & LUNCH BREAK**
13:15–14:45	SHORT COURSE	**Anti-corrosion pigments and additives for water borne protective coatings** *Dr. Bodan Ma, ICL/Halox, USA*
14:45–15:15		**Macroeconomics meets formulation: How global dynamics shape coating prices** *Chifaa Kardous, ASAL Kimya, Turkey*
15:15–15:45		**TO BE ANNOUNCED SOON**
15:45–16:15		**FLUORINE-FREE HYDROPHOBIC COATING APPROACHES TO PROTECT PAINTING EQUIPMENT** *Dr. Diana Alves, International Iberian Nanotechnology Laboratory, Portugal*
16:15–16:45		**EFFICACY OF PLANT POLYPHENOLIC EXTRACTS USING IBRG METHOD PD 16/001/1.02** *Prof. Kathrin Steinhauer, bactologicum, Germany*

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DAY 3 - 31 OCTOBER 2025 | SHORT COURSE INTRODUCTION

TITANIUM DIOXIDE BY ANDREW WHITE

This 90-minute short course will look to inform on all aspects of the production and effective optimal use of the very important material Titanium Dioxide (TiO2). The course will be split into four 15–20-minute sections with time for questions in between. Initially a brief history and definition of the importance of the product will be followed by detailed explanations of the common production processes culminating in an explanation of the routes to different surface treatments which define the various grades. There will also be a focus on the development of the global TiO2 market and likely future developments in the coming years. The second section will focus on how TiO2 is used in practice, focussing on how it produces opacity in coatings films and more specifically explaining how it functions, firstly in solvent based and latterly water-based systems, with detailed explanations of how to optimise its dispersion, stability and performance in each case. There will then follow a look at the effect of TiO2 on coatings colour especially in tinted systems, and then in a separate sub-section we will discuss the effect TiO2 has on coatings durability in exterior systems. Finally, the 4th section will focus on optimising Titanium Dioxide performance. Much work has been done in the past years on developing routes to “minimize “TiO2 use. This section will explore the various routes, and help the attendee to understand the formulating options available to them when developing the efficiency of the opacity of their formulation.

ANTI-CORROSION PIGMENTS AND ADDITIVES FOR WATER BORNE PROTECTIVE COATINGS BY DR. BODAN MA

Anti-corrosion property is a key requirement for protective coatings. Typical failure modes i.e. rusts and blisters, in corrosion tests especially salt spray, are discussed regarding their mechanisms and approaches to address them. Special attention will be paid to challenges for water borne systems compared to solvent borne systems.