

Training Courses

13 December 2017 (Wednesday)

09.00-17.00

Plastics Film Process Troubleshooting

Code : PIDT-174 Language : English
Instructor : Tom Bezigian

09.00-17.00

Plastics for Medical Devices - Design & Processing

Code : PIDT-175 Language : English
Instructor : Len Czuba

09.00-12.00

Processing the Future Medical Devices

Code : PIDT-179 Language : English
Instructor : Dr. Sean Lyons

14 December 2017 (Thursday)

09.00-17.00

Plastics Technology Fundamentals

ความรู้พื้นฐานด้านเทคโนโลยีพลาสติก

Code : PIDT-176 Language : Thai
Instructor : Dr. Kalyanee Sirisinha

15 December 2017 (Friday)

09.00-12.00

Understanding Bioplastics, Trends & Processing

Code : PIDT-177 Language : English
Instructor : Dr.-Ing. Michael Thielen

09.00-17.00

Screw Extrusion: Basics & Applications

กระบวนการอัดรีดพลาสติกขั้นพื้นฐานและการประยุกต์ใช้งาน

Code : PIDT-178 Language : Thai
Instructor : Dr. Kalyanee Sirisinha

16 December 2017 (Saturday)

09.00-17.00

Hyperspeed Development of New Medical Devices - Materials & Processing

Code : PIDT-180 Language : English
Instructor : Len Czuba & Dr. Austin Coffey

Plastics Industry, Research & Innovations Forum 2017

Code PIDT-181

14 December 2017, Thursday

Room 1

Session : Plastics Films, Packaging & Processing – Part 1 (Chairman: Tom Bezigian)

09.30 - **Extruding Barrier Films: Comparing Extrusion Technologies (Blown, Cast, Biax)**
10.15 | *Jim Stobie, Macro Engineering & Technology Inc., Canada*

10.15 - **Newest Developments in Coating & Lamination for Specialty Films & Flexible Packaging**
11.00 | *Andrea Glawe, KROENERT GmbH & Co KG, Germany*

11.00-11.30 | **Refreshment /Networking Break**

11.30 - **Adhesive Lamination: New Technology in Solventless Lamination**
12.00 | *Fabio Vincenzi, Nordmeccanica Spa., Italy*

12.00 - **Coating Machine Configuration for Advanced Packaging Materials**
12.30 | *Ricky L. Keller, Davis-Standard, USA*

12.30-13.30 | **Lunch Break**

Session : Plastics Films, Packaging & Processing – Part 2 (Chairman: Tom Bezigian)

13.30 - **Polymer Design Concept for Extrusion Coating Application**
14.00 | *Kanyanut Narkchamnan, SCG Chemicals Co., Ltd, Thailand*

14.00 - **Specialty Resins for Challenging Needs in Plastics Packaging**
14.30 | *Dr. Hwee Tatz Thai, DuPont Company (Singapore) Pte Ltd, Singapore*

14.30 - **Adhesion Challenges in Extrusion Coating Lamination**
15.00 | *Océane Lamarzelle, Arkema, France*

15.00-15.30 | **Refreshment /Networking Break**

15.30 - **Plenary Speech: Transformative role of Biocarbon is Decarbonizing Plastic Processing Industry**
16.00 | *Prof. Mohini Sain, University of Toronto, Canada*

Session : Compounding, Extrusion & New Materials – Part 1 (Chairman: Dr. Anthony Wong)

16.00 - **Fundamentals of Coloring Engineering Polymers**
16.30 | *Dr. Martin Fabian, Lifocolor Farben GmbH & Co. KG, Germany*

16.30 - **Transparent PP by different nucleation technology**
17.00 | *Michael Li, BASF, China*

17.00 - **A New Trend of Specialty and Eco-friendly Plasticizer**
17.30 | *Chantana Sae-Lim, SCG Chemicals, Thailand*

Room 2

Session: BioPlastics / BioPolymers (Chairman: Michael Thielen)

10.00 - **Latest Developments in PLA Production Technology**
10.30 | *Dr. Patrick Farquet, Sulzer Singapore Pte Ltd.*

10.30 - **Developments in the Asia Pacific PLA and Bio-Plastic Markets**
11.00 | *Stefan Barot, Total Corbion PLA BV, the Netherlands*

11.00-11.30 | **Refreshment /Networking Break**

11.30 - **Bio-based Specialty Polyamides solutions for High performance & durable applications**
12.00 | *Dr. Wenda Chen, ARKEMA Kyoto Technical Center, Japan*

12.30-13.30 | **Lunch Break**

Session : Medical Plastics & Devices (Chairman: Len Czuba)

13.30 - **The accelerated pace of new product development and tools that make it possible, from concept to commercialization**
14.00 | *Dr. Austin Coffey, Waterford Institute of Technology, Ireland*

14.00 - **Emerging injection molding and extrusion processing solutions for the medical device industry**
14.30 | *Dr. Sean Lyons, Applied Polymer Technologies, Ireland*

14.30 - **Rapidly evolving polymer materials which meet the newest changing industry requirements from passive to active materials**
15.00 | *Len Czuba, Czuba Enterprises Inc., USA*

15.30 - **Plenary Speech: Transformative role of Biocarbon is Decarbonizing Plastic Processing Industry**
16.00 | *Prof. Mohini Sain, University of Toronto, Canada*

15 December 2017, Friday

Room 1

Session : Plastics Films, Packaging & Processing – Part 3 (Chairman: Tom Bezigian)

- 09.00-09.30 **Low Energy Electron Beam Crosslinking of Polyolefin Films for Packaging Applications**
Im Rangwalla, Energy Sciences, USA
- 09.30-10.00 **FDA conform Monolayer Sheet with the Gneuss MRS system**
Ralf Altepeter, Gneuss Kunststofftechnik GmbH, Germany
- 10.00-10.30 **Novel Stabilization Solutions for Polyolefins: Value Creation and product Differentiation**
Dr. Hayder Zahalka, Advivant Global Technology, USA
- 10.30-11.00 **Refreshment /Networking Break**
- 11.00-11.30 **Pushing the Boundaries of PP for Film Application**
Dr. Andreas Neumann, HMC Polymers Co., Ltd., Thailand
- 11.30-12.00 **Monoaxially Oriented Polyolefin Films and their Applications**
Wolfgang Rasp, NOWOFOL Kunststoffprodukte GmbH, Germany
- 12.00-12.30 **Plasma Treatment of Polymers**
Rudolf Knes, PINK GmbH Thermosysteme, Germany

12.30-13.30 : **Lunch Break**

Session : Compounding, Extrusion & New Materials – Part 2 (Chairman: Dr. Anthony Wong)

- 13.30-14.00 **Developments in polymeric flame retardant for EPS and XPS foams**
Dr. Daisy Li, ICL group, China
- 14.00-14.30 **The efficient and sustainable way to realize your aspiration-BASF Pigment Preparations**
Calla JIANG, BASF Colors & Effects Co., Ltd., China
- 14.30-15.00 **A Qualitative Analysis on Dynamic Compounding**
Dr. Anthony Wong, Ngai Hing Hong Co., Ltd., Hong Kong
- 15.00-15.30 **Refreshment / Networking Break**
- 15.30-16.00 **BioPolymers/Filled Products - Where to use?**
Corné Verstraten, Dr. COLLIN GmbH, Germany
- 16.00-16.30 **Challenges and Solutions for the Coloring of Advanced Engineering Polymer Systems**
Dr. Martin Fabian, Lifocolor Farben GmbH & Co. KG, Germany
- 16.30-17.00 **Compliance of Food Contact Colorants**
Calla JIANG, BASF Colors & Effects Co., Ltd., China

Venue:

Bangkok International Trade & Exhibition Center (BITEC)
Bangkok, Thailand



Room 2

Session: Polymer Science & Characterization (Chairman: Len Czuba)

- 09.30-10.00 **Innovative Polymers Made in Thailand**
Dr. Daniel Crespy, Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand
- 10.00-10.30 **Multiscale morphological and mechanical characterization of Injection-molded samples**
Dr. Andrea Sorrentino, Institute for Polymers, Composites and Biomaterials (IPCB), Italy
- 10.30-11.00 **Molecular Orientation Control of Polypropylene Containing Specific Nucleating Agent**
Dr. Panitha Phulkerd, Japan Advanced Institute of Science and Technology, Japan
- 11.00-11.30 **Refreshment /Networking Break**
- 11.30-12.00 **Preparation, characterization and potential applications of polymers with biomimetic surface structures**
Professor Jui-Ming Yeh, Chung Yuan Christian University, Taiwan
- 12.00-12.30 **Electrical and dielectric properties of biopolymer composites for transient electronics**
Dr. Giovanni Landi, University of Salerno, Italy

12.30-13.30 : **Lunch Break**

13.30-14.00 **Plenary Speech: Overview of Bioplastics Industry in Korea** *Dr. In-Joo Chin, Korea BioPlastics Association*

Session : Plastics Recycling / Recovery (Chairman: Len Czuba)

- 14.00-14.30 **Advanced Filtration Solutions for Polymer Recycling Industry**
Dr. Yong Wang, Anji Plastic Machinery, China
- 14.30-15.00 **Modern Technologies in Plastic Recycling – Turning 'waste' into Raw Material**
Thomas Berlingen, EREMA, Austria
- 15.00-15.30 **State of the art Recycling system for high quality recycled material**
Ralf Altepeter, Gneuss Kunststofftechnik GmbH, Germany
- 15.30-16.00 **Refreshment / Coffee Break**

Session : Digitalization & Industry 4.0 (Chairman: Len Czuba)

- 16.00-16.30 **How Digitalisation can save money for Plastic Manufacturers**
Aman Gupta, ThingTrax Ltd, UK
- 16.30-17.00 **Plenary Speech: Future of Polymer Processing for Sustainable Development of Biodegradable Plastics and Design Structures**
Prof. Hiroshi Ito, Yamagata University, Japan

Session : Ph.D Students Research (Chairman: Dr. Panitha Phulkerd)

- 17.00-17.15 **Producing plastics from carbon dioxide**
Neha Yadav, Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand
- 17.15-17.30 **Lignin and shellac nanoparticles for anticorrosion applications**
Mongkhol Prawatborisut, Vidyasirimedhi Institute of Science, and Technology (VISTEC), Thailand

TRAINING COURSES

Plastics Film Process Troubleshooting

13 December 2017 / 09.00-17.00

(Code: PIDT-174)

Instructor: Tom Bezigian, USA

This training will cover troubleshooting in the areas of extrusion, coextrusion and film properties. Common extrusion issues seen in all extrusion processes will be discussed, as well as an in-depth focus on coextrusion issues. Troubleshooting common film quality issues and relating those issues back to the cause in the extrusion process will be covered. The main topics include: Efficient and effective start-up and shutdown procedures to eliminate gels and voids, eliminate gauge bands, Reduce start-up time and waste, practical coextrusion to produce high quality product; the effect of process conditions on Heat seal strength, Barrier properties, Optical properties, COF and packaging machinery performance, Release properties, Curl etc.

Plastics for Medical Devices - Design & Processing

13 December 2017 / 09.00-17.00

(Code: PIDT-175)

Instructor: Len Czuba, USA

Life-saving medical devices that are used to deliver healthcare to patients are built using the best polymeric materials available for the lowest possible cost. But the selection of what plastic to use can often be confusing, even daunting considering the variables including processing required. Injection molding, extrusion, heat sealing, assembly and sterilization will all dictate what plastic material should be used. This one-day program will cover the important factors that must be considered when creating new regulated medical devices.

Processing the Future Medical Devices

13 December 2017 / 09.00-12.00

(Code: PIDT-179)

Instructor: Dr. Sean Lyons, Ireland

The accelerated evolution of Rapid Prototyping into Additive Manufacturing for the medical device industry, from parts and components to tissue engineering, has brought about a radical change in the ability to bring specialty individualized products to the market. Learn how the range of materials being used continues to grow as are the end-use applications for radical new therapies.

Understanding Bioplastics, Trends & Processing

15 December 2017 / 09.00-12.00

(Code: PIDT-177)

Instructor: Dr.-Ing. Michael Thielen, Germany

This course is aimed to give information on possibilities with bioplastics. This program covers biobased & biodegradable as well as non-degradable plastics, types, processing and applications. This course also covers market trends and also future developments. And also, certification issues will be discussed.

Hyperspeed Development of New Medical Devices - Materials & Processing

16 December 2017 / 13.00-17.00

(Code: PIDT-180)

Instructors: Len Czuba, USA & Dr. Austin Coffey, Ireland

Foundational principles support the development of virtually all medical devices. But the latest materials and new processes available can help deliver better devices in a fraction of the time. Hear from industry experts about next gen polymers and processes relying on "smart" material technology for such products needing lubricious surfaces, controlled drug delivery, electrically responsive polymers and biocompatible tissue implants.

ความรู้พื้นฐานด้านเทคโนโลยีพลาสติก

Plastics Technology Fundamentals

14 ธันวาคม 2560 / 09.00-17.00

(Code: PIDT-176)

Instructors: Dr. Kalyanee Sirisinha

เพื่อให้ผู้รับการฝึกอบรมมีความรู้พื้นฐานเกี่ยวกับพลาสติก การเตรียมและสังเคราะห์พลาสติก ประเภทของพลาสติก สมบัติและการทดสอบ สมบัติทางกลและทางความร้อนของพลาสติกเพื่อการใช้งานและการขึ้นรูปกระบวนการขึ้นรูปและแปรรูปพลาสติกเป็นผลิตภัณฑ์ต่างๆ อาทิ งานอัดรีดงานฉีด งานเป่าขึ้นรูป เป็นต้น รวมถึงเนื้อหาเกี่ยวกับพลาสติกผสม คอมพอลิท์และไบโอพลาสติก การบรรยายครอบคลุมถึง ความรู้พื้นฐานเกี่ยวกับ พลาสติก/ การเตรียมและสังเคราะห์พลาสติก/ ประเภทของพลาสติก เทอร์โมพลาสติกและเทอร์โมเซต/ พลาสติกผสมและคอมพอลิท์/ พลาสติกกับ สิ่งแวดล้อม - ไบโอพลาสติก และพลาสติกรีไซเคิล/ สมบัติทางกลและทางความร้อนของพลาสติก / การทดสอบสมบัติของพลาสติก/ กระบวนการขึ้นรูป และแปรรูปพลาสติกเป็นผลิตภัณฑ์ เช่น งานอัดรีด (Extrusion) งานเป่าถุง (Blown Im extrusion) งานเทอร์โมฟอร์มมิง (Thermoforming) งานฉีด (Injection molding) งานเป่าขึ้นรูป (Blow molding) งานโรตารีโมลดิ้ง (Rotational molding) เป็นต้น

กระบวนการอัดรีดพลาสติกขั้นพื้นฐานและการประยุกต์ใช้งาน

Screw Extrusion: Basics and Applications

วันที่ 15 ธันวาคม 2560 / 09.00-17.00 (Code: PIDT-178)

Instructors: Dr. Kalyanee Sirisinha

เพื่อให้ผู้รับการฝึกอบรมมีความรู้พื้นฐานทางด้านการอัดรีดพลาสติก โดยเน้นให้เกิดความเข้าใจถึงกระบวนการที่เกิดขึ้นในเครื่องอัดรีดพลาสติก (Screw Extruder) เป็นหลัก ทั้งชนิดเครื่องอัดรีดสกรูเดี่ยวและเครื่องอัดรีดสกรูคู่ รวมถึงตัวอย่างการใช้งานของเครื่องอัดรีดเพื่องานผสมและคอมพาวด์พลาสติก (Mixing and Compounding) งานขึ้นรูปพลาสติก (Extrusion Shaping) และการทำปฏิกิริยาเคมีในเครื่องอัดรีด (Reactive Extrusion) การบรรยายครอบคลุมถึง ภาพรวมของเทคโนโลยีการอัดรีด / เครื่องอัดรีด: องค์ประกอบและกระบวนการ เครื่องอัดรีดสกรูเดี่ยว (Single-screw Extruder, SSE) เครื่องอัดรีดสกรูคู่ (Twin-screw Extruder, TSE) / พลาสติกและสมบัติที่สำคัญ / การใช้งานเครื่องอัดรีด งานผสมและคอมพาวด์พลาสติก (Mixing and Compounding) งานขึ้นรูป (Extrusion Shaping) การทำปฏิกิริยาเคมีในเครื่องอัดรีด (Reactive Extrusion)



REGISTRATION FEE

Topic	Code	Registration Fee/Person	
		Thailand Delegates	Overseas Delegates
TRAINING COURSES			
Plastics Film Process Troubleshooting	PIDT-174	15,000 Baht	750 US\$
Plastics for Medical Devices - Design & Processing	PIDT-175	15,000 Baht	750 US\$
Plastics Technology Fundamentals	PIDT-176	9,500 Baht	NA
Understanding Bioplastics, Trends & Processing	PIDT-177	10,000 Baht	500 US\$
Screw Extrusion : Basics and Applications	PIDT-178	9,500 Baht	NA
Processing the Future Medical Devices	PIDT-179	12,500 Baht	600 US\$
Hyperspeed Development of New Medical Devices - Materials & Processing	PIDT-180	12,500 Baht	600 US\$
FORUM			
Plastics Industry, Research & Innovations Forum 2017	PIDT-181	15,000 Baht	750 US\$

Delegate Registration Guidelines

Early Bird Discount: Register before 15 Nov: 5% Discount

Group Discount: 5% Discount for Group of 3 or more from same company.

Remarks: VAT 7% applies on above fees. Payment is required with registration. Registration fee includes documentation, lunch and refreshments as appropriate.

How to Register:

Please download registration form at www.plastics-industry.org or www.plasticsprocessing-expo.com and send filled registration form to TechnoBiz for further processing.

TECHNOBIZ

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