



# RadTech 2016 Conference + Exhibition DIRECTORY

May 15-18, 2016 | [www.radtech2016.com](http://www.radtech2016.com) | Hyatt Regency O'Hare | Chicago, Illinois

**Welcome to the Global Conference &  
Exhibition for UV+EB Curing Technology**

General Information  
Conference Program  
Floor Plans  
Exhibitors

**Presented by: RADTECH**  
THE ASSOCIATION FOR UV&EB TECHNOLOGY

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# GENERAL INFORMATION

## Age Restriction

Due to insurance liability issues, no one under the age of 18 is permitted on the exhibit show floor at any time. Thank you for your cooperation. If you are under 21 and attending the show, you are forbidden to consume any alcoholic beverages at the receptions.

## Badges

Your badge contains your name, company and location. The badge also indicates your registration type and allows access to the areas of the convention for which you are registered. The badge may contain more than one registration type.

### Registration Types Include:

**Full Conference**—allows access to any Technical Conference session all week along. Also includes admission to the exhibition.

**Monday Technical Conference**—allows access to any Technical Conference session on Monday only. Also includes admission to the exhibition.

**Tuesday Technical Conference**—allows access to any Technical Conference session on Tuesday only. Also includes admission to the exhibition.

**Wednesday Technical Conference**—allows access to any Technical Conference session on Wednesday only. Also includes admission to the exhibition.

**Exhibition Only**—Allows you to attend the exhibition on all three days.

Monitors will be checking all badges and individual session tickets to verify attendance prior to entering all venues. Lost or forgotten badges may be replaced for a fee (see Policy under Lost/Forgotten Badges). Please remember to wear your badge at all times for access to RadTech 2016 events.

## Conference Luncheons

Lunch for conference attendees will be held on the Exhibition Floor with additional seating right outside the Exhibit Hall. Admittance is by ticket only. If you are registered for the conference, you automatically receive lunch tickets.

## Conference Proceedings

Full and One-Day Technical Conference attendees will receive a Technical Conference Proceedings Online Link to access the abstracts and papers.

## Emergencies

Please report emergencies immediately to the Registration Desk.

## Lost or Forgotten Badges

Lost or forgotten badges will be subject to a \$35 replacement fee. Tickets for the conference luncheon are NON-REPLACEABLE!

## Registration Hours/Express Check-In

<b>Sunday, May 15</b>	8 a.m.-7 p.m.
<b>Monday, May 16</b>	7 a.m.-6 p.m.
<b>Tuesday, May 17</b>	7 a.m.-6 p.m.
<b>Wednesday, May 18</b>	7 a.m.-12 p.m.

## Exhibit Hours

The RadTech 2016 Exhibit Show Floor will be open during the following hours:

<b>Monday, May 15</b>	10 a.m.-6 p.m.
<b>Tuesday, May 16</b>	10 a.m.-6 p.m.
<b>Wednesday, May 17</b>	10 a.m.-2 p.m.

# SPECIAL THANKS

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RadTech International NA would like to extend a special thanks to the following individuals and companies for their efforts and support of RadTech 2016.

## Technical Conference Review Committee

The following individuals served as the Technical Conference Review Committee, a daunting task. All technical conference papers were thoroughly reviewed by the committee for inclusion in the Technical Conference. The committee also was responsible for the selection of the Best Paper Award. This committee dedicated themselves to raise the standards of all Technical Conference Papers. RadTech thanks the following for all their volunteer efforts:

**Molly Hladik, Chair**, *ACTEGA North America*

**Julie Jessop**, *University of Iowa*

**Joel Schall**, *Henkel*

**Chris Miller**, *Estron*

**Alexander Polykarpov**, *Akzo Nobel*

**Susan Bailey**, *IGM Resins*

**Mike Idacavage**, *Colorado Photopolymer Solutions*

## RadTech 2016 Sponsors

RadTech would like to thank and recognize our sponsors and partners that contributed to the success of RadTech UV&EB Technology Expo & Conference.

**Alberdingk Boley, Inc.**

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## Board Members

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# PLANNING GUIDE

This is an overview spreadsheet of all events taking place. You can use this guide to plan which conference sessions you will attend and when you will visit the Show Floor. **Technical sessions** are shaded in **purple**, free sessions in **green**, short courses in **orange** and all others in **yellow**.

## SUNDAY, MAY 15

8:00	Registration/Express Check-In 8 a.m.-7 p.m.		8:00
8:30			8:30
9:00			9:00
9:30			9:30
10:00			10:00
10:30			10:30
11:00			11:00
11:30			11:30
12:00			12:00
12:30			12:30
1:00		<b>SHORT COURSES</b> (Additional Fee Required) 1-5 p.m. UV/EB Professional Short Course (Undergraduate-Level) Room: Rosemont B	1:00
1:30			1:30
2:00			2:00
2:30			2:30
3:00			3:00
3:30		1-5 p.m. Advanced Photopolymerization Topics (Graduate level) Room: LAX A/B	3:30
4:00			4:00
4:30		1-5 p.m. All You Ever Wanted to Know (and More) About UV-C LED's and Applications Room: Rosemont A	4:30
5:00			5:00
5:30			5:30
6:00			6:00
6:30			6:30
7:00		<b>SHORT COURSE</b> (Additional Fee Required) 7-8:30 p.m. Click Chemistry in Radiation Curing Room: LAX A/B	7:00
7:30			7:30
8:00			8:00
8:30			8:30

Technical Sessions Short Courses Free Sessions All Others

## MONDAY, MAY 16

7:00	Registration/Express Check-In 7 a.m.-6 p.m.	Exhibits Open 10 a.m.-6 p.m.	8-10 a.m. 3D Printing Room: Rosemont A	8-9:30 a.m. Formulation Room: Rosemont B		7:00		
8:00						8:00		
8:30						8:30		
9:00					9-9:30 a.m. <b>FREE</b> Introduction to the Basics of UV/EB Curing Room: LAX A/B	9:00		
9:30						9:30		
10:00			10 a.m.-Noon Specialty Applications Room: Rosemont A	10-11:30 a.m. Hardcoats Room: Rosemont B  11 a.m.-Noon Advanced Technology for UV Wood Applications Room: LAX A/B	10-11 a.m. UV/EB Curing for Automotive Applications Room: DFW A/B	10:00		
10:30						10:30		
11:00						11:00		
11:30						11:30		
12:00			LUNCH BREAK/VISIT SHOW FLOOR Noon-1 p.m.			12:00		
12:30						12:30		
1:00			1-3 p.m. Printing & Packaging Room: Rosemont A	1-2 p.m. Coatings Room: LAX A/B		1:00		
1:30				2-3 p.m. Panel Discussion: the Latest Advancements in 3D Printing Using UV Technologies Room: Rosemont B		1:30		
2:00						2:00		
2:30						2:30		
3:00			3-4:30 p.m. Digital Printing Room: Rosemont A	3-5 p.m. UV Hydrogel Medical, Industrial, and Developing Applications Room: DFW A/B  3-5 p.m. Adhesives Room: LAX A/B	3-4 p.m. Material Innovation: A Discussion with Consumer Product Companies Room: Rosemont B	3:00		
3:30								3:30
4:00								4:00
4:30						4:30		
5:00			SHOW FLOOR RECEPTION Sponsored by Miwon Specialty Chemical Co. Ltd. 5-6 p.m.			5:00		
5:30						5:30		
6:00						6:00		
6:30			SHORT COURSE (Additional Fee Required) 6:30-9 p.m. Design of Experiments for UV/EB Scientists and Engineers Part 1 Room: DFW A/B			6:30		
7:00						7:00		
7:30						7:30		
8:00						8:00		
8:30						8:30		

Technical Sessions Short Courses Free Sessions All Others

## TUESDAY, MAY 17

7:00	Registration/Express Check-In 7 a.m.-6 p.m.			7:00	
7:30				7:30	
8:00		8-10:00 a.m. Advances in Electron Beam Equipment and Applications Room: Rosemont B	8-9:30 a.m. Chemistry Room: Rosemont A	8:00	
8:30				8:30	
9:00				9-9:30 a.m. <b>FREE</b> Introduction to the Basics of UV/EB Curing Room LAX A/B	9:00
9:30					9:30
10:00	10-11:30 a.m. EHS & Regulatory Room: Rosemont B				10:00
10:30		10:30			
11:00		11:00			
11:30			11:30		
12:00	Exhibits Open 10 a.m.-6 p.m.	<b>LUNCH BREAK/VISIT SHOW FLOOR</b> Noon-1 p.m.		12:00	
12:30				12:30	
1:00		1-2:30 p.m. Raw Materials 1 Room: LAX A/B		1:00	
1:30				1:30	
2:00				2-4 p.m. <b>FREE</b> New Product Debut II Room: DFW A/B	2:00
2:30					2:30
3:00		3-5 p.m. Raw Materials 2 Room: LAX A/B	3:00		
3:30			3:30		
4:00			4:00		
4:30			4:30		
5:00		<b>PRESIDENT'S RECEPTION ON SHOW FLOOR</b> 5-6 p.m.		5:00	
5:30				5:30	
6:00		<b>EMERGING TECHNOLOGY AWARDS DINNER</b> Location: Rosemont B Registration Required 6-8 p.m.			6:00
6:30					6:30
7:00				7:00	
7:30				7:30	

Technical Sessions Short Courses Free Sessions All Others

## WEDNESDAY, MAY 18

7:00	Registration/Express Check-In 7 a.m.-Noon			7:00
7:30				7:30
8:00		8-9:30 a.m. Low-Gloss / Haptic Coatings Room: Rosemont A	8-10 a.m. Photoinitiator Room: Rosemont B	8:00
8:30				8:30
9:00				9:00
9:30			9:30	
10:00	Exhibits Open 10 a.m.-2 p.m.	10 a.m.-Noon Composites Room: Rosemont A		10:00
10:30				10:30
11:00				11:00
11:30				11:30
12:00		LUNCH BREAK/VISIT SHOW FLOOR		12:00
12:30		Noon-1 p.m.		12:30
1:00		1-3 p.m. Global Market Overview Room: Rosemont A	1-2:30 p.m. Cure Studies Room: Rosemont B	1:00
1:30				1:30
2:00				
2:30				2:30

Technical Sessions Short Courses Free Sessions All Others

# SCHEDULE OF EVENTS

The following schedule of events has been set for RadTech UV&EB 2016. Schedule is subject to change and update.

## Sunday, May 15, 2016

8 a.m.-7 p.m. **Registration Express Check-In**  
1-8:30 p.m. **Short Courses**

## Monday, May 16, 2016

7 a.m.-6 p.m. **Registration Express Check-In**  
8 a.m.-5 p.m. **Conference Sessions**  
10 a.m.-6 p.m. **Exhibits Open**  
12-1 p.m. **Lunch Break/Visit Show Floor**  
5-6 p.m. **Opening Reception on Show Floor**

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## Tuesday, May 17, 2016

7 a.m.-6 p.m. **Registration Express Check-In**  
8 a.m.-5 p.m. **Conference Sessions**  
10 a.m.-6 p.m. **Exhibits Open**  
12-1 p.m. **Lunch Break/Visit Show Floor**  
5-6 p.m. **President's Reception on Show Floor**  
6-8 p.m. **Emerging Awards Dinner**

## Wednesday, May 18, 2016

7 a.m.-12 p.m. **Registration Express Check-In**  
8 a.m.-2 p.m. **Conference Sessions**  
10 a.m.-2 p.m. **Exhibits Open**  
12-1 p.m. **Lunch Break/Visit Show Floor**  
2 p.m. **RadTech UV&EB 2016 Exhibition Closes**  
3 p.m. **RadTech UV&EB 2016 Concludes**

# TECHNICAL CONFERENCE PROGRAM

## SUNDAY, MAY 15

### Short Courses

*Short Courses Require An Additional Fee*

#### UV/EB Professional Short Course (Undergraduate-Level)

Room: Rosemont B

1-5 p.m.

#### Advanced Photopolymerization Topics (Graduate level)

Room: LAX A/B

1-5 p.m.

#### All You Ever Wanted to Know (and More) About UV-C LED's and Applications

Room: Rosemont A

1-5 p.m.

#### Click Chemistry in Radiation Curing

Room: LAX A/B

7-8:30 p.m.

# TECHNICAL CONFERENCE PROGRAM

## MONDAY, MAY 16

### INTRODUCTION TO THE BASICS OF UV/EB CURING

This Session is Free to All RadTech 2016 Attendees

Room: LAX A/B

#### Introduction to the Basics of UV/EB Curing

Michael Idacavage, Colorado Photopolymer Solutions

9-9:30 a.m.

### 3D PRINTING

Room: Rosemont A

#### New Oligomers for 3D Printing Inks

Ahmet Nebioglu, Dymax Oligomers & Coatings

8-8:30 a.m.

#### UV Additive Manufacturing of Polymer Derived Ceramics

Zak Eckel, HRL Labs, LLC

8:30-9 a.m.

#### Toughening Resins for 3D Printing

William Wolf, Sartomer Americas

9-9:30 a.m.

#### Acrylated Silicones Suitable for SLA 3D Printing

Bob Ruckle, Siltech Corp.

9:30-10 a.m.

### FORMULATION

Room: Rosemont B

#### Adhesion Promoting Oligomers

Matt Terwillegar, Myriant Corporation

8-8:30 a.m.

#### Evaluation of Adhesion Using Different Formulations, Substrates, and Curing Protocols

Neil Cramer, Colorado Photopolymer Solutions

8:30-9 a.m.

#### Combining Oxiranes and Oxetanes to Enhance Kinetics and Improve Physical Properties

Sara Kaalberg, University of Iowa

9-9:30 a.m.

### SPECIALTY APPLICATIONS

Room: Rosemont A

#### Predicting Biofilm Resistance of UV-curable Coatings via the Lifshitz-van der Waals/Lewis Acid-Base Approach

Emily B. Henry, Lipscomb University

10-10:30 a.m.

#### Fabric Modification by Radiation Methods

Vincent Luo, China General Nuclear

10:30-11 a.m.

#### UV Curable SiOXane Based Resins for 100 nm Pitch by R2R Nanoimprinting

Changjin Lee, Korea Research Institute of Chemical Technology

11-11:30 a.m.

#### Developing Biocompatible & Bioabsorbable UV Materials Enabling Mass Production of Custom Medical Device Implants Using Micro-CLIP

Evan Baker and Henry Ware, Northwestern University

11:30 a.m.-Noon

### HARDCOATS

Room: Rosemont B

#### Investigation of Cure and Nanomechanical Properties of Weatherable UV-Cured Hardcoats

Jennifer David, Momentive Performance Materials

10-10:30 a.m.

#### Highly Reactive Thin Film Hardcoats for Plastics

Marcus Hutchins, Allnex

10:30-11 a.m.

#### UV Curable Hard Coats Mediated with Thiols

Qiang Hu

11-11:30 a.m.

### ADVANCED TECHNOLOGY FOR UV WOOD APPLICATIONS

Room: LAX A/B

#### UV LED for Wood Applications

Mike Higgins, Phoseon

11-11:30 a.m.

# TECHNICAL CONFERENCE PROGRAM

## MONDAY, MAY 16

### The Rise of Digital Printing & Inert Coatings for Wood Applications

Roy Pagan, Cefla North America—Finishing Division

11:30 a.m.-Noon

### UV/EB CURING FOR AUTOMOTIVE APPLICATIONS

Room: DFW A/B

#### Future Trends in Automotive Lightweighting

Chris Seubert, Ford Motor Company

10-10:30 a.m.

#### Cationic Curing of Automotive Coatings

Cynthia Templeman, Toyota Motor Engineering & Manufacturing NA

10:30-11 a.m.

### PRINTING & PACKAGING

Room: Rosemont A

#### Recent Advances in Low Viscosity, Low Migration, Fast Curing UV/EB Resin Technology

Paul Share, BASF Corporation

1-1:30 p.m.

#### Functional Coatings to Enhance Decorative Packaging

Kristy Wagner, Red Spot

1:30-2 p.m.

#### A Prescription for Healthy UV Printing

Laura Maybaum, NAZDAR and Jim Raymont, EIT, NAZDAR inks and EIT Instrument Markets

2-2:30 p.m.

#### UV LED Curing in Production Printing Environments

Jennifer Heathcote, Phoseon Technology

2:30-3 p.m.

### COATINGS

Room: LAX A/B

#### Determination of the Surface Energy for UV-Curable Easy Release Coatings

Emily B. Henry, Lipscomb University

1-1:30 p.m.

#### Surface Energy: An Applied Experimental Design for Novel UV-Curable Coatings

Aseel A. Mahmood, Lipscomb University

1:30-2 p.m.

### PANEL DISCUSSION: THE LATEST ADVANCEMENTS IN 3D PRINTING USING UV TECHNOLOGIES

Room: Rosemont B

#### 2-3 p.m.

This panel discussion will feature some of the thought leaders in materials, equipment, and end uses for UV technologies in 3D Printing.

#### Panelists Include:

**Victor Latour, Supervisor of Digital Design**

Stoopid Buddy Stoodiosz

**Sumeet Jain, Director/Market Development**

Arkema Inc., Sartomer Business Unit

**Lance Pickens, CEO & Founder**

MadeSolid

**Mike Idacavage, VP Business Development**

Colorado Photopolymer Solutions

**Brian Adzima, Materials Scientist, 3D Printing**

Autodesk

**Alex Mejiritski, President**

Spectra Group Limited

**Houmin Li, President**

UNIZ 3D

### MATERIAL INNOVATION: A DISCUSSION WITH CONSUMER PRODUCT COMPANIES

Room: Rosemont B

#### 3-4 p.m.

A discussion on how companies prioritize, explore, vet and select new materials and technologies, and how UV+EB offers potential solutions.

#### Panelists Include:

**Sharon Tracy, PhD**

Steelcase Inc.

**Alrick Warner**

P&G

**Christopher Seubert**

Ford Motor Company

**Todd Fayne**

Pepsi Co.

**Robin Wright**

3M



# TECHNICAL CONFERENCE PROGRAM

## MONDAY, MAY 16

### DIGITAL PRINTING

Room: Rosemont A

#### Advances in Inkjet Printing Demanding Changes in Chemistry

*Dene Taylor, SPF-Inc.*

3-3:30 p.m.

#### How the Selection of Raw Materials can Impact Print Speeds in Digital Printing

*Dev Nagvekar, BASF*

3:30-4 p.m.

#### Challenges of Replacing Automated Screen Printing of Plastic Parts with UV Curable Singlepass Inkjet

*Paul Beliveau, Fujifilm Dimatix*

4-4:30 p.m.

### ADHESIVES

Room: LAX A/B

#### Radiation Curable Pressure Sensitive Adhesives

*Jin Lu, Arkema Inc., Sartomer Business*

3-3:30 p.m.

#### Formulating a UV-Cure Pressure Sensitive Adhesive for PVC Foam Tapes and Converting an Oven-Dry Water-Borne Material Using an LED Lamp Cure System

*Brian Chambers, Novagard Solutions*

3:30-4 p.m.

#### Fine Art Applications Using Pigmented UV Adhesives

*Sidney Hutter, Sidney Hutter Glass & Light Inc.*

4-4:30 p.m.

#### Goldilocks and the UV Curable PSAs

*Lisa Castillo, KIWO Adhesives and Jim Raymont, EIT Instrument Markets*

4:30-5 p.m.

### UV HYDROGEL MEDICAL, INDUSTRIAL, AND DEVELOPING APPLICATIONS

Room: DFW A/B

#### The Design and Application of Hydrogels

*Beth Rundlett, Katecho*

3-3:30 p.m.

#### UV Patterning of Cells in Microfluidic Devices for Tissue Engineering

*Christiane Nguyen, University of Connecticut*

3:30-4 p.m.

#### Nanostructured Hydrogels through Photopolymerization in Lyotropic Liquid Crystals

*Allan Guymon, University of Iowa*

4-4:30 p.m.

#### Novel Hydrogel Beads and Fiber

*Robin Wright, 3M*

4:30-5 p.m.

### Short Course Short Courses Require An Additional Fee

#### Design of Experiments for UV/EB Scientists and Engineers Part 1

Room: DFW A/B

6:30-9 p.m.

# TECHNICAL CONFERENCE PROGRAM

## TUESDAY, MAY 17

### INTRODUCTION TO THE BASICS OF UV/EB CURING

**This Session is Free to All RadTech 2016 Attendees**

Room: LAX A/B

#### Introduction to the Basics of UV/EB Curing

*Michael Idacavage, Colorado Photopolymer Solutions*

9-9:30 a.m.

### CHEMISTRY

Room: Rosemont A

#### Functional Monodisperse Microparticles from Thiol-Michael Dispersion Polymerizations

*Chen Wang, University of Colorado Boulder*

8-8:30 a.m.

#### Controlled Monomer Architecture for Property Enhancement in Photocured Thin Films

*Jon Scholte, University of Iowa*

8:30-9 a.m.

#### An Easy Way To Adjust The Properties Of Epoxy In Cationic Photopolymerization

*Rong Bao, Tronly New Electronic Materials Cooperation*

9-9:30 a.m.

### ADVANCES IN ELECTRON BEAM EQUIPMENT AND APPLICATIONS

Room: Rosemont B

#### New Ebeam Systems Incorporating Compact Sealed Ebeam Lamps

*Karl Swanson, PCT Engineered Systems*

8-8:30 a.m.

#### Ebeam Inkjet Technology for Low Migration Digital Printing Applications

*Lawrence Gamblin, Collins Inkjet*

8:30-9 a.m.

#### Novel Technology of Electron Beam Curing in Vacuum

*Mikhail Laksin, IdeOn LLC and Dante Ferrari, Celplast Metallized Products*

9-9:30 a.m.

#### Cleveland Steel Container Case Study: UV/EB Metal Coil Coating for Steel Containers

*William Parish, Cleveland Steel Container*

9:30-10 a.m.

### NEW PRODUCT DEBUT I

**This Session is Free to All RadTech 2016 Attendees**

Room: DFW A/B

#### New Leading Edge UV LED Lamps from Phoseon Technology in 2016

*Mike Higgins, Phoseon Technology*

9-9:15 a.m.

#### Custom Synthesis of Photo-Initiators for Specialty Applications

*Mike Wyrostek, Hampford Research*

9:15-9:30 a.m.

#### UV Inerting Chambers

*Jim McCusker, Honle UV America, Inc.*

9:30-9:45 a.m.

#### Glass UV

*Jim Creveling, Toyoda Gosei North America*

9:45-10:00 a.m.

#### New Ebeam Systems: Shrinking Footprint, Growing Presence

*Karl Swanson, PCT Engineered Systems*

10-10:15 a.m.

#### New Raw Materials for UV LEDs and Other Applications

*William Mahon, Miwon Specialty Chemical Co., Ltd.*

10:15-10:30 a.m.

#### Glass Optics Mix UVA, B, and C LED Wavelengths to Replicate Mercury Spectrum and Optimize Lighting Systems by Increasing Irradiance and Improving Uniformity

*Brian Jasenak, Kopp Glass*

10:30-10:45 a.m.

#### RHINO ArcLED UV: Breaking the LED Investment Paradigm

*Brian Wenger, GEW, Inc.*

10:45-11 a.m.

#### Nichia New High Power UV-LEDs

*Daita Yahiro, Nichia*

11-11:15 a.m.

#### New Plasma Surface Treater Technology

*Ryan Schuelke, Enercon Industries*

11:15-11:30 a.m.

# TECHNICAL CONFERENCE PROGRAM

## TUESDAY, MAY 17

### RAHN's Two New Versatile Polyether Acrylates

Michael Gould, RAHN USA Corp.

11:30-11:45 a.m.

### A New and Versatile Waterborne UV Resin with Improved Stability

Oliver Nohr, Alberdingk Boley, Inc.

11:45 a.m.-Noon

### ELECTRON BEAM TECHNOLOGY FOR PACKAGING APPLICATIONS

Room: Rosemont A

### Ebeam Sterilization of Medical and Food Packaging Enabled by Compact Ebeam Lamp Technology

Steen Kreinbrink, Comet Group

10-10:30 a.m.

### Advances in Wide Web Ebeam Flexible Packaging Printing

David Biro, Sun Chemical

10:30-11 a.m.

### Electron Beam Crosslinking of Polyolefin Films for Various Packaging Applications

Im Rangwalla, Energy Sciences Inc.

11-11:30 a.m.

### Applying EB-Flexo Ink Technologies to the Food Packaging Industry

Todd Fayne, PepsiCo

11:30 a.m.-Noon

### EHS & REGULATORY

Room: Rosemont B

### Stay Competitive and in Compliance with UV+EB

Rita Loof, RadTech

10-10:30 a.m.

### Working with UV Curable 3D Printing—Safety and Handling

Michael Idacavage, Colorado Photopolymer Solutions

10:30-11 a.m.

### US Regulatory Updates: Implications for the UV/EB Industry

Brigitte Lindner, RAHN USA Corp.

11-11:30 a.m.

### RAW MATERIALS 1

Room: LAX A/B

### Oligomer Solutions for UV Curable Inkjet and 3D Printing Applications

Jo Ann Arceneaux, PhD, Allnex

1-1:30 p.m.

### Dendritic Oligomers for LED Curable Formulations

James Aeryksen, Dymax Oligomers & Coatings

1:30-2 p.m.

### New Developments in UV Curable Laminating Adhesives—Formulating for Enhanced Adhesion and Service Properties

Michael Bailey, Sartomer Americas

2-2:30 p.m.

### DEEP UV LED

Room: Rosemont A

### Improving Surface Cure with UVC LEDs

Mike Kay, Excelitas

1-1:30 p.m.

### UV Curable Formulations for Deep UV LEDs

Haruyuki Okamura, Osaka Prefecture University

1:30-2 p.m.

### Fundamental aspects of Deep UV light emitting diodes and failure reduction of LEDS grown on AlN Substrates

Rajul Randive, and Leo J. Schowalter, Crystal IS

2-2:30 p.m.

### FOOD PACKAGING PANEL

Room: Rosemont B

2-3:30 p.m.

Panelists will discuss migration definitions, limits, testing, and the various approaches among countries and regions in addressing migration concerns; safety issues versus customer perception will also be explored.

### Panelists Include:

**Dr. Stephen Klump**  
Nestlé

**Nick Ivory**  
Sun Chemical

**Peter Walther**  
Siegwerk

**Don Duncan**  
Wikoff Color Corp.

**George G. Misko**  
Keller & Heckman LLP

# TECHNICAL CONFERENCE PROGRAM

## TUESDAY, MAY 17

### Short Course Short Courses Require An Additional Fee

### Design of Experiments for UV/EB Scientists and Engineers Part 2

Room: DFW A/B

Noon-2 p.m.

### NEW PRODUCT DEBUT II

### This Session is Free to All RadTech 2016 Attendees

Room: DFW A/B

### Products for Special Effect Coatings and LED Curing

Scott Auger, Allnex

2-2:15 p.m.

### Low VOC Decorative Coatings for Rigid Packaging

Diane Marret, Red Spot Paint & Varnish Co.

2:15-2:30 p.m.

### Speedcure XKm—A Novel Phosphine Oxide Photoinitiator

Petr Sehnal, Lambson Limited UK

2:30-2:45 p.m.

### New and Novel Materials for Radiation Curing

Steve Fields, Sartomer Americas

2:45-3 p.m.

### AccuCure Multi-Wavelength Panel

John Morris, Digital Light Lab

3-3:15 p.m.

### BASF Introduces Solyfast™ 0010—A Photolent Metal Catalyst That Enables Conventional 2K Urethane Coatings Cure with UV Energy

Syed Hasan, BASF Corporation

3:15-3:30 p.m.

### EIT LED-R L395 Radiometer and PowerMAP II Radiometers

Jim Raymont, EIT LLC

3:30-3:45 p.m.

### Characterizing UV Curing Reactions by Thermal Analysis

Blaine Weddle, Mettler-Toledo, LLC

3:45-4 p.m.

### RAW MATERIALS 2

Room: LAX A/B

### Innovative Polyester Acrylates—Solutions for Industrial Market Needs

Jonathan Shaw, PhD, Allnex

3-3:30 p.m.

### Bio Renewable Oligomers

Matt Terwilligar, Myriant Corporation

3:30-4 p.m.

### Photoinitiated Cationic Polymerization of Sustainable Epoxy and Oxetane Thermosets

Zhegin Theodore Yang, Rensselaer Polytechnic Institute

4-4:30 p.m.

### Synthesis and Characterization of UV Curable Organic-Inorganic Acrylic-Based Coatings and Their Functional Properties

Alain Flores Centeno, Institute of Materials Research

4:30-5 p.m.

### EQUIPMENT

Room: Rosemont A

### The Effect of Different Irradiation Sources on Formulation Properties

Amelia Davenport, Colorado Photopolymer Solutions

3-3:30 p.m.

### UV Reflectivity of Microporous PTFE Material

Jason Chen, POREX Corporation

3:30-4 p.m.

### UVA, B, and C Glass Optics Designed to Mix Wavelengths, Increase Irradiance, and Improve Uniformity: Design, Simulation, and Analysis

Brian S. Jasenak, Kopp Glass

4-4:30 p.m.

### The Status of UV LED Measurement Standardization

Joe May and Jim Raymont, EIT Instrument Markets

4:30-5 p.m.

## TECHNICAL CONFERENCE PROGRAM

### WEDNESDAY, MAY 18

#### LOW-GLOSS / HAPTIC COATINGS

Room: Rosemont A

##### Matting Energy-Curable Coating Through Novel Dispersant Technology

Rebecca (Becca) Banton, Evonik Corporation  
8-8:30 a.m.

##### How Does It Feel? Recent Advances in UV-Curable Soft Touch Coatings.

Lisa Spagnola, Sartomer Americas  
8:30-9 a.m.

##### A Versatile Binder for Ultra-Matte Effect Coatings

Jonathan Shaw, PhD, Allnex  
9-9:30 a.m.

#### PHOTOINITIATOR

Room: Rosemont B

##### Innovations in Photoinitiator Technology for LED Applications

Mike Wyrostek, Hampford Research  
8-8:30 a.m.

##### Design of New 3-Ketocoumarins for UV LED Curing

Marika Morone, IGM Resins  
8:30-9 a.m.

##### Cationic UV Curable Silicone Release Coatings: Historical Perspective and New Formulation Tools

Richard Eckberg, Momentive Performance Materials  
9-9:30 a.m.

##### Boosting the Cure of Phosphine Oxide Photoinitiators. Sensitisation Or Synergy?

W. A. Green, Great Lakes Fine Chemicals (Retired)  
9:30-10:00 a.m.

#### COMPOSITES

Room: Rosemont A

##### Energy Conservation in Carbon Fiber Composite Curing

Mark S. Driscoll, Ph.D., SUNY College of Environmental Science and Forestry  
10-10:30 a.m.

##### Visible Light Curing of Fiberglass-Reinforced Ballistic Panels

Yunyun Bi, SUNY ESF  
10:30-11 a.m.

##### Advancements in Transparent Ultrafine Mineral Filler Technologies for UV/EB Performance, Economics and Cure Rate

Scott Van Remortel, Unimin Corp.  
11-11:30 a.m.

##### Design of a Blue Led Array for Curing Fiberglass-Reinforced Composite

Mark S. Driscoll, SUNY ESF  
11:30 a.m.-Noon

#### WATERBORNE

Room: Rosemont B

##### Innovative Water-Based UV Resins for Exterior Applications

Laurie Morris, Alberdingk Boley, Inc.  
10-10:30 a.m.

##### Electron Beam Curing Properties of Water-Based Monomer and Polymer Materials

Stephen Lapin, PCT Engineered Systems  
10:30-11 a.m.

##### Coalescence and Film Formation Properties of Aqueous UV-Curable PUDs and Oligomers Prior to UV Light Exposure

Ronald Obie, Wood Coatings Research Group  
11-11:30 a.m.

##### New UV-Puds Showing Good Chemical Resistance

Rami Awad, Miwon Specialty Chemical Co., Ltd.  
11:30 a.m.-Noon

## TECHNICAL CONFERENCE PROGRAM

### WEDNESDAY, MAY 18

#### GLOBAL MARKET OVERVIEW

Room: Rosemont A

##### North American Market Overview

Peter Weissman, RadTech North America/Quaker Chemical  
1-1:30 p.m.

##### European Market Overview

David Helsby, RAHN/RadTech Europe  
1:30-2 p.m.

##### China Radiation Cure Market

Jianwen Yang, RadTech China  
2-2:30 p.m.

##### South American UV/EB Market

M. Cristina Kobal C. de Carvalho, RadTech South America  
2:30-3 p.m.

#### CURE STUDIES

Room: Rosemont B

##### Non-Reciprocity of Exposure of UV-Curable Materials and the Implications for System Design

R.W. Stowe, Heraeus Noblelight America  
1-1:30 p.m.

##### Dose Rate Effects in Electron-Beam Initiated Polymerization

Sage M. Schissel, University of Iowa  
1:30-2 p.m.

##### "Kick-started" Oxetanes in Photoinitiated Cationic Polymerization: Scale-Up Synthesis and Structure-Property Studies

Jananee Narayanan Sivakami, Rensselaer Polytechnic Institute  
2-2:30 p.m.

# EXHIBITOR BOOTH NUMBERS

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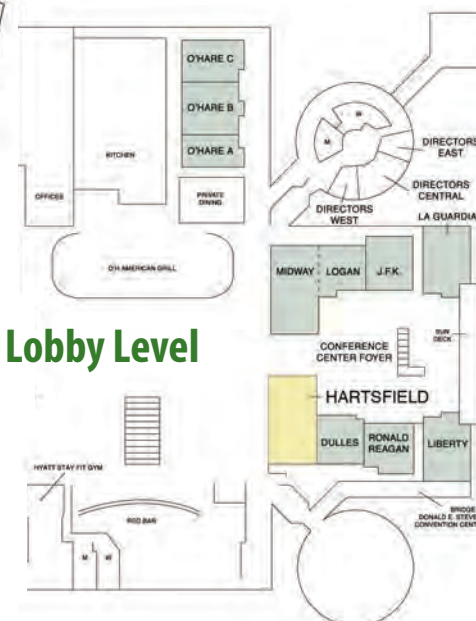
# HYATT REGENCY FLOOR PLANS

## HYATT REGENCY O'HARE | CHICAGO, ILL.

### Entry Level



### Lobby Level



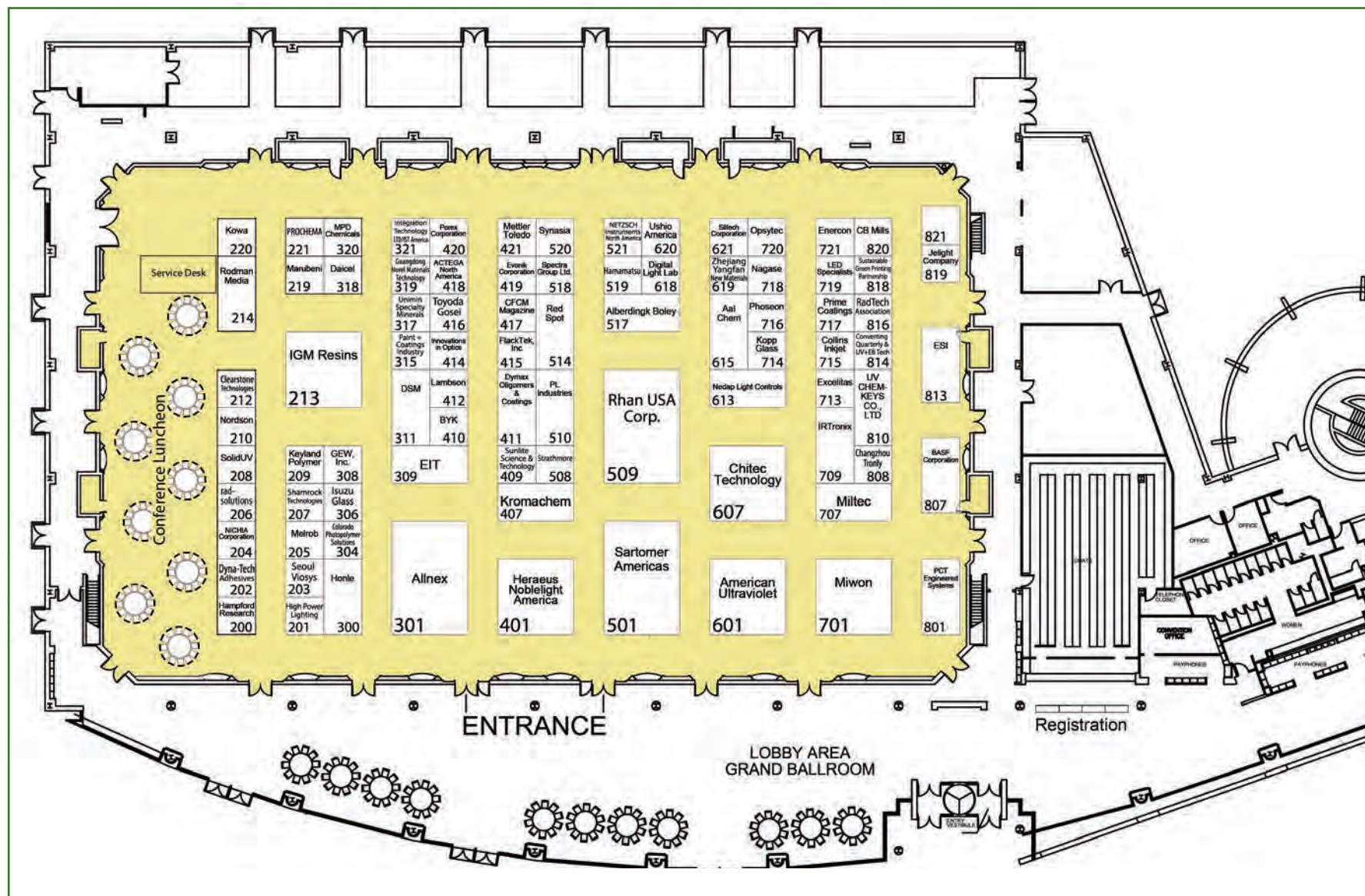


# EXHIBIT FLOOR PLAN

HYATT REGENCY O'HARE | CHICAGO, ILL.



RadTech UV/EB 2016  
Technology Expo & Conference  
May 15-18, 2016



# LISTING OF EXHIBITORS

## Aal Chem 615 Alberdingk Boley, Inc. Sponsor 517

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www.aalchem.com

Aal Chem is a chemical distributor that offers a diverse range of product lines. UV coatings and graphic arts are amongst our core markets. We partner with trusted suppliers to ensure quality material at competitive prices. Eternal, our UV curable supplier, and Jiuri Chem, our photoinitiator supplier will be at our RadTech booth providing technical information. Through responsive customer service, logistic expertise, and technical support, Aal Chem provides customers the best solutions for their business.

## ACTEGA North America 418

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jim.wittig@altana.com  
www.actega.com/northamerica

ACTEGA develops and produces UV and water-based coatings and adhesives for the digital marketplace. Products by ACTEGA offer high-value visual and functional appearances to almost every market including labels, commercial, and packaging. ACTEGA is committed to offering the best solutions and help in bringing surfaces to life.

**Contact: Julia Harrison**  
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www.alberdingkusa.com

Alberdingk Boley, Inc. (ABI) is a global supplier of innovative water-based dispersions. With a legacy of more than 185 years in castor and linseed oils, driven by tradition and innovative technology, ABI is a proud, responsive supplier of environmentally friendly water-based emulsions and Polyurethane dispersions to the paint and coatings, adhesives, and graphic arts industries. ABI offers a full line of waterborne emulsions and Polyurethane dispersions including UV-curable dispersions for wood, metal, plastics, concrete, glass, and flexible substrates (leather, synthetic leather, textiles, paper, and plastic films).

## Allnex 301

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scott.auger@allnex.com  
www.allnex.com

A global company with \$1.5 billion in sales, Allnex is among the leading supplier of resins for architectural, industrial, OEM and special purpose coatings. We are recognized as a specialty chemicals pioneer in several of its key technology capabilities. We offer the broadest portfolio of high quality, innovative liquid resins and additives, radiation cured and powder coating resins, and crosslinkers for use on wood, metal, plastic, and other surfaces. With manufacturing facilities and research and technology support centers located throughout the world, we are able to provide responsive, local support to customers, helping them to rapidly bring advanced coating solutions to the market.

## American Ultraviolet 601 BYK Additives & Instruments 410

**Contact: Meredith Stines**  
212 S. Mt. Zion Road  
Lebanon, IN 46052 USA  
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FX 765-483-9525  
mstines@auvco.com  
www.americanultraviolet.com

A designer and manufacturer of ultraviolet equipment since 1960. The AUV family of companies includes: Aetek UV Systems, LESCO UV and UV Source. With a full staff of engineers and experienced production staff, full custom engineered systems, specifically designed to meet your application needs, are our specialty. Applications include aerospace, hospitals, automotive, adhesive bonding, optical coatings, screen printing, coatings curing, floor and surface curing. Let our experience improve your future.

## BASF Corporation 807 CB Mills Division of Chicago Boiler Co. 820

**Contact: Andrew Seecharan**  
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Southfield, MI 48033 USA  
PH 800-231-7868  
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Custserv\_charlotte@basf.com  
www.basf.us/dpsolutions

In close collaboration with our customers and their value chain networks, BASF searches for solutions to meet the market needs of today and the challenges of tomorrow. Our technical experts provide excellent advice on ink, overprint varnish and coating guidelines to develop the best solutions leading to faster curing rates, good adhesion to a wide range of substrates, increased productivity and lower production costs.

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PH 203-265-2086  
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CustomerServiceGroup.BYK.USA@altana.com  
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BYK is a worldwide leader in the chemical industry providing additives which protect, refine product surfaces and/or simplify the manufacturing process. BYK manufactures additives for energy cured systems including inks and coatings which include: additives to improve surface slip, leveling, and substrate wetting, defoamers and air release agents, processing additives, rheological additives, UV absorbers, viscosity depressants, wax additives, and wetting and dispersing additives for pigments and extenders.

**Contact: Tom LeBiedz**  
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tlebiedz@cbmills.com  
www.cbmills.com

CB Mills, a division of Chicago Boiler has been family owned for 125 years! We design and build some of the highest quality steel tanks, vertical and horizontal media grinding mills, tank washers and solvent recovery systems. CB Mills has worked with customers for decades in order to provide the most thoroughly designed products. Whether it is a tank, a still or a media grinding mill we have seen it and done that!

## LISTING OF EXHIBITORS

### CFCM Magazine

417

**Contact: Pete Wilkinson**  
2186 Mountain Grove Avenue, Suite 259  
Burlington, ON L7P 4X4 Canada  
PH 705-296-3030  
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### Changzhou Tronly New Electronic Materials Co., Ltd.

808

**Contact: Rong Bao**  
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Changzhou Tronly New Electronic Materials Co., Ltd. is an application-oriented, independent innovation based company specialized in R&D and manufacture of the photosensitive chemical materials. Photoinitiators (Including Photosensitizer, Photo Acid Generator, etc.) and Photoresist resins are main parts of our product line, which mainly applied to the advanced electronic materials. We can provide new cationic monomer, which can increase cationic UV curing speed two times. We also can provide a solution of using UV LED for cationic curing and free radical curing. If you are interested in our products, please contact with us.

### Chitec Technology Co, Ltd.

607

**Contact: Milly Hung / Heidi Lu**  
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www.chitec.com

Chitec is a leading global provider of specialty chemicals managing UV light and heat for the plastic, coating, ink and rubber industries. The company's notable product lines include UV absorber, light stabilizer, antioxidant, flame retardant and photoinitiator. Information about Chitec can be found at [www.chitec.com](http://www.chitec.com).

### Clearstone Technologies

212

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www.clearstonetech.com

Clearstone Technologies, Inc. takes basic UV LED components and builds turn-key UV light sources for end users or systems integrators. We use our expertise in optics, thermal design, and electronics to build robust, reliable, and user-friendly UV light sources. Our UV light sources will deliver, with integrity, the promise of solid-state light sources to ultra-violet applications, such as curing adhesives, coatings, inks, and other light-sensitive materials.

## LISTING OF EXHIBITORS

### Coatings World Magazine

214

**Contact: Dale Pritchett**  
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dpritchett@rodmanmedia.com  
www.coatingsworld.com

Coatings World is a monthly magazine, web site and weekly e-newsletter and is read by over 20,000 technical formulators, managerial and marketing directors involved in the manufacture of paint and coatings worldwide. Our staff of editors and correspondents, based in Asia, Europe and the Americas, provides the most global information available on the US\$110+ billion coatings industry. Please visit our web site for further information: [www.coatingsworld.com](http://www.coatingsworld.com)

### Collins Inkjet

715

**Contact: Kristin Adams**  
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FX 513-948-8900  
kadams@collinsinkjet.com  
www.collinsinkjet.com

Collins Inkjet has over 26 years experience creating innovative solutions for industrial inkjet customers and OEMs. Collins is a vertically integrated high volume manufacturer of water, solvent, UV curable and is at the forefront of EB curable inkjet development. More recently Collins expanded its offerings to include printheads, printhead refurbishment and printer development. Collins remains focused on helping customers and OEM create new market opportunities and expand the reach of high-speed inkjet printing.

### Colorado Photopolymer Solutions

304

**Contact: Neil Cramer**  
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Boulder, CO 80301 USA  
PH 303-520-4107  
neil.cramer@cspolymers.com  
www.cspolymers.com

CPS formulates and manufactures custom materials for application and adhesion to a wide variety of substrates and tack free curing under a wide range of curing conditions. CPS formulates materials for curing with broadband UV, LED, and EBeam. CPS has expertise in polymeric optics, coatings, and thiol-ene chemistry. CPS also develops and manufactures custom formulations for 3D printing.

### Converting Quarterly

814

**Contact: Mark Spaulding**  
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mark@aimcal.org  
www.convertingquarterly.com

CONVERTING QUARTERLY is the No. 1 print and online technical resource for the web-processing, converting and finishing industries. As the official publication of the Assn. of International Metallizers, Coaters & Laminators, it serves the technical information needs of coater, laminator, film-maker, flexo/gravure printer, slitter/sheeter and finishing professionals with a quarterly printed magazine, weekly email newsletter, 24-7 Website and Mobile Apps.



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### Daicel (U.S.A.), Inc. Sponsor

318

**Contact: Maria Chang**  
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Fort Lee, NJ 07024 USA  
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maria@us.daicel.com  
www.daicel.com/en/us

Daicel Corporation in Japan is the world's leader manufacturer of cycloaliphatic epoxy resin by Daicel's very own special technology. This unique technique is achieved by an oxidation reaction with peracetic acid. It is characterized by being a liquid with low viscosity and having an extreme low content of chlorine. Celoxide 2021P® is cured with an acid anhydride curing agent to achieve cure products that are excellent in transparency. It has a high heat distortion temperature as well as, high electrical insulating property. Therefore, it has many uses as for example in coatings, adhesives, electronic, etc.

### Digital Light Lab

618

**Contact: John Morris**  
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Knoxville, TN 37932 USA  
PH 865-694-7892  
morris@digitallightlab.com  
www.digitallightlab.com

Digital Light Lab manufactures LED-based UV curing and illumination equipment. Our AccuCure family of systems have applications in a wide range of industries including the medical device, adhesive, coating, and printing fields. Our systems offer intelligent, feature-rich solutions to support research, development, manufacturing, and quality control challenges. Employed in each phase of a product lifecycle, the AccuCure family of curing systems ensures seamless integration from formulation to manufacturing, providing our customers with a shorter time to market and better, more consistent products.

### DSM

311

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730 Main Street  
Wilmington, MA 01887 USA  
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biren.oza@dsm.com  
www.dsm-agi.com

Royal DSM N.V. is a global science-based company active in health, nutrition and materials with 22,000 employees delivering annual net sales of around €9 billion. Within material science cluster, DSM focuses on resins and functional materials. Within resin group targets, three sustainable technologies; w/b powder and UV. DSM acquired 51% share of AGI and formed DSM-AGI Corporation for UV curing chemical business in July 2011. Core products for DSM-AGI joint venture are UV curing chemicals, including oligomers and monomers.

### Dymax Oligomers & Coatings

411

**Contact: Caroline Corniello**  
318 Industrial Lane  
Torrington, CT 06790 USA  
PH 860-626-7006  
FX 860-626-7043  
info@dymax-oc.com; ccorniello@dymax.com  
www.dymax-oc.com

Dymax Oligomers & Coatings (formerly Bomar™ Specialties), a technology leader in acrylate and urethane chemistry, will be exhibiting a line of specialty oligomers and additives for energy-cure applications. Among the products being exhibited are its line of oligomers for 3D printing inks and LED Nail Gel coatings. Dymax will also showcase light-curing equipment optimized to work seamlessly with Dymax LCM formulations for the fastest, most thorough cures.

## LISTING OF EXHIBITORS

### Dyna-Tech Adhesives

202

**Contact: Larry Slaven**  
2071 Country Club Road  
Grafton, WV 26354 USA  
PH 304-265-5200  
FX 304-265-5202  
lslaven@dyna-techadhesives.com  
www.dyna-techadhesives.com

Dyna-Tech Adhesives is a manufacturer of energy curable coatings and adhesives, water-based adhesives and coatings, hot melt adhesives, and advanced resin dispersions. We are recognized as an industry leader, known for our revolutionary UV and EB curable monomer free technology. Our full range of energy curable products are unmatched in the packaging and printing industries. We are technically driven and committed to our customer's success by providing experienced technical support, dedicated customer service, and the highest quality products for a broad range of applications.

### EIT Instrument Markets

309

**Contact: Jim Raymont**  
108 Carpenter Drive  
Sterling, VA 20164 USA  
PH 703-478-0700  
FX 703-478-0291  
uv@eit.com  
www.eit.com

EIT uses its resources to design, manufacture, assemble and distribute instruments that measure and track process control information in UV applications. EIT radiometers and on-line monitoring equipment provide UV users with the widest choice of instruments on the market. The radiometers are NIST traceable and are available in a variety of bands.

### Enercon Industries Corporation

721

**Contact: Mark Plantier**  
W140 N9572 Fountain Blvd.  
Menomonee Falls, WI 53051, USA  
PH 262-255-6070  
FX 262-255-7784  
mplantier@enerconmail.com  
www.enerconind.com

Enercon offers atmospheric plasma and flame surface treating technologies that clean, etch and functionalize surfaces to improve adhesion of inks, adhesives and coatings. In-line surface treating prior to UV and LED curing processes is proven to increase bond strength on numerous surfaces and applications. Latest technology includes Blown Ion and Blown Arc Plasma Treaters with intuitive touch screen control that unlocks powerful features that simplifies operation and control.

### Energy Sciences Inc.

813

**Contact: Richard Sanders**  
42 Industrial Way  
Wilmington, MA 01887 USA  
PH 978-694-9000  
FX 978-694-9046  
rsanders@ebeam.com  
www.ebeam.com

Energy Sciences Inc (ESI) is the world's leading innovator and manufacturer of electron beam (EB) curing systems. EB systems are used to cross link films, cure EB formulated CI flexo and web offset inks, coatings and laminating adhesives. Stop by our booth to learn about our Total Solutions Approach to your application requirements.



## LISTING OF EXHIBITORS

### Evonik Corporation

419

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P.O. Box 34628  
Richmond, VA 23234 USA  
PH 804-727-0700  
FX 804-727-0895  
rebecca.marshall@evonik.com  
www.tego.us

As a leading supplier of specialty chemicals, Evonik offers its customers in the coatings industry a unique range of products under the TEGO brand name. With more than 200 products, the range currently includes additives, co-binders, specialty binders, and nanoresins. We are confident that we can find solutions for you.

### Excelitas Technologies (OmniCure®)

713

**2260 Argentinia Road**  
Mississauga, ON L5N 6H7 Canada  
PH 905-821-2600  
FX 905-821-2055  
OmniCure@excelitas.com  
www.excelitas.com/OmniCure

OmniCure® by Excelitas Technologies offers innovative UV curing systems that provide leading manufacturers worldwide with the highest performing UV curing technology. OmniCure leverages its unique industry expertise to deliver faster and more consistent UV curing results, ensuring our customers capitalize on highest product quality and production efficiency savings. Featuring our latest technology—the LX500 is a newly developed UV LED spot curing system that delivers exceptional peak irradiance of up to 16W/cm<sup>2</sup>. Visit us at booth #713 to learn more.

### FlackTek, Inc.

415

**Contact: Sharon Gordon**  
1708 Hwy 11  
Landrum, SC 29356 USA  
PH 864-895-7441  
FX 864-895-7442  
sharon@flacktek.net  
www.speedmixer.com

The FlackTek SpeedMixer is an advanced tool for mixing, grinding/milling and dispersing. This Non-Invasive Mixing™ technology removes air bubbles while homogenizing the sample in a matter of seconds, and there is ABSOLUTELY NO CLEANUP! The SpeedMixer can be used to process any combination of powders, pastes, putties, and liquids in batches ranging from 1g to 10kg. Please visit our booth to learn how a SpeedMixer can benefit your R&D, quality control and specialty productions.

### GEW, Inc. Sponsor

308

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North Royalton, OH 44133 USA  
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sales@gewuv.com  
www.gewuv.com

GEW designs and manufactures UV curing systems for the printing, packaging and coating industries. In 2015, GEW launched ArcLED, the first hybrid UV curing system that enables hybrid, interchangeable UV curing on each print station, allowing the printer to use a combination of arc and LED technologies seamlessly on the same press with the ability to optimize UV curing at every print station on the press and thus maximize their productivity.

## LISTING OF EXHIBITORS

### Guangdong Bossin Novel Materials Technology Co. Ltd.

319

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www.gzbossin.com/en/

Bossin is a UV resin specialist in R&D, manufacturing, product supply and technical service for UV ink, UV painting, UV varnish and UV adhesive in China. We are dedicated to sustainable social development while designing UV resin with low viscosity, high quality and special function. We provide UV resin including PU-, Epoxy-, Organosilicon- and Polyester-Acrylates.

### Hamamatsu Corporation

519

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usa@hamamatsu.com  
www.hamamatsu.com

Hamamatsu Corporation is the North American subsidiary of Hamamatsu Photonics K.K. (Japan). For UV curing, we offer various UV-LED sources with 365 nm or 385 nm emission and up to 10500 mW/cm<sup>2</sup> output intensity. For EB curing and surface modification applications, we offer the EB-ENGINE, an electron beam irradiation source (50-110 kV).

### Hampford Research

200

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mwyrostek@hampfordresearch.com  
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Hampford Research, Inc. is a specialty chemical manufacturer located in Stratford, Connecticut. We specialize in producing highly engineered chemicals for worldwide customers in the electronics, dental, personal care, printing/imaging and adhesives markets. Our products are an integral part of such varied products as dental fillings and false teeth, cosmetics, hair products and sunscreen, smart phones, tablets and desktop computers, anti-counterfeiting holographic images, sticky-backed labels and 3D prototype imaging.

### Heraeus Noblelight America LLC.

401

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FX 301-527-2661  
gina.gonzalez@heraeus.com  
www.heraeus-noblelight.com

Customized process solutions, together with Heraeus Noblelight America's extensive process, formulations and applications experience have enabled the development of new UV curing process and many successful conversions from conventional thermal processing to more environmental proactive energy efficient and cost saving UV curing processes. As a result, industrial manufacturers around the world have made Heraeus Noblelight America their UV systems supplier of choice.

## LISTING OF EXHIBITORS

### High Power Lighting Corp.

201

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**jasonlin@hplighting.com.tw**  
**www.hplighting.com.tw/**

HPL is a professional LED manufacturer with patented and state-of-the-art technologies. Since 2012, HPL has expanded our product-mix and diversified into three major product categories including LED Lighting, Specialty UV and IR Lighting. In the UV LED area, HPL has become the No. 1 UV solutions providers in the Greater China region based on our all copper substrate design with one of a kind Quartz Glass Lens combination. In 2016, HPL intends to use the advantage of our UV solution and taking an aim globally.

### Honle UV America

300

**Contact: Lynn Chevalier**  
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**Marlboro, MA 01752 USA**  
**PH 508-229-7774**  
**FX 508-229-8530**  
**lc@honleuv.com**  
**www.HonleUV.com**

The Honle Group is one of the leading Global suppliers of Industrial UV/LED technology. Honle is a full-service UV/LED specialist developing, manufacturing and distributing UV/LED Systems, UV Lamps and measurement instrumentation. The equipment is used in the curing of photo reactive chemistries as well as surface sterilization and sun simulation. The company's products are used in manufacturing processes in electronics, microelectronics, precision engineering and optics, as well as in the printing, automotive, aviation and Solar Power industries. At the heart of every UV system is the Honle Lamp and Power Supply. Laboratory and demo equipment are also available to help you identify and qualify the right UV solution.

### IGM Resins

213

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**www.igmresins.com**

IGM Resins is recognized globally as a specialist in the development, manufacture and supply of products to the UV/EB Industry and the only supplier that is 100% dedicated to this segment. We provide a broad range of photoinitiators, oligomers (epoxy, polyester and urethane), acrylate monomers and additives to address every formulating need. Our materials are used in graphic arts, adhesive and electronic applications as well as protective and decorative coatings for wood, plastic and metal substrates. At IGM, we bring it all together.

### Ink World Magazine

214

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**www.inkworldmagazine.com**

Ink World is the largest trade magazine, web site and weekly e-newsletter in the world covering the US\$20+ billion global printing ink industry, reaching over 5,000 subscribers worldwide. Ink World's editors and correspondents provide extensive and accurate reporting with incisive articles on the companies, the people and the trends in the global printing ink industry. Please visit our web site for further information: [www.inkworldmagazine.com](http://www.inkworldmagazine.com)

## LISTING OF EXHIBITORS

### Innovations In Optics, Inc.

414

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**FX 781-933-0007**  
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**www.innovationsinoptics.com**

Innovations in Optics, Inc. offers powerful UV-LED sources for science and industry that provide maximum flux density, irradiance uniformity and stable radiant power. Products offer system-level advantages over lasers and arc lamps in OEM equipment for many applications including ink and epoxy curing, photolithography, 3D printing, and direct image writing.

### Integration Technology Ltd. / IST America

321

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**www.uvintegration.com**

IST METZ and Integration Technology are displaying the biggest portfolio of UV products in the world. High-performance UV Lamp and UV LED systems are a focus at RadTech, Booth 321. In collaboration with its subsidiary Integration Technology Ltd., which has specialized in digital printing, IST METZ GmbH offers the largest portfolio of UV systems in the world. The company supplies customized solutions to the printing industry in sheet-fed, web-fed and digital printing applications.

### IRTronix, Inc.

709

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IRTronix, Inc. is one of the fastest growing agency for LG Innotek UVLED here in North America serving customers globally. We accelerate our partners' success by connecting the world's leading technology suppliers with a broad base of customers to provide cost-effective, value-added services, and solutions.

### Isuzu Glass, Inc.

306

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**www.isuzuglass.com**

Isuzu Glass is a manufacturer of optical filter glasses and molded optics. In our corporate history of over 100 years, we have dedicated our efforts to the glass material both in melting new types of filter glass and in manufacturing glass components by developing unique technologies in steps ahead of competitors.

## LISTING OF EXHIBITORS

### Jelight Company

819

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jci13@jelight.com  
www.jelight.com

Jelight Company, Inc. was established in 1978 as a high quality UV lamps manufacturer. Jelight produces both mercury and metal halide (gallium and iron additive) lamps ranging from 1" to 200" in length and 25 to 1,500 watts/inch. In addition, we manufacture irradiators, ballast transformers, capacitors, reflectors, hot/cold mirrors, quartzware, and portable UV curing equipment. As an ISO 9001 Certified Company, we highly value safety and quality during production and for the end users.

### Keyland Polymer

209

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Keyland Polymers sole focus is the development, formulation and manufacturing of UV-curable powder coatings. UV-cured powder coating is a cost effective and efficient, environmentally friendly, and fast coating solution for including wood, plastic, metals, composites and pre-assembled components. Our extensive R&D laboratory allows us to work with companies and develop a coating solution for their product. We also assist with the design, set up, installation and support of UV powder systems.

### Kopp Glass Sponsor

714

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Kopp Glass is the leader in molded technical glass manufacturing with a portfolio of more than 200 glass compositions. We offer custom molded glass optics that increase UV LED irradiance and improve light distribution uniformity. Our optics enable the creation of versatile, modular UV curing systems with flexible working distances and the ability to cure both linear and complex 3D surfaces. Achieve greater design freedom while improving energy efficiency, reducing LEDs, and improving thermal management.

### Kowa

220

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### Kromachem Inc.

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Kromachem specializes in Radiation Curing additive technology with a history of over 35 years in the speciality chemicals business. We are best known for our FLORSTAB range of UV In-Can Stabilisers and RADCOLOR UV Pigment Dispersions.

## LISTING OF EXHIBITORS

### Lambson Ltd.

412

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Lambson is a UK based company with branch offices and warehouses in the USA, China and Japan. We are regarded as pioneers in the UV industry and continue to produce innovative, high performance solutions to our clients worldwide. Our product range covers a broad spectrum of commercial photo initiators, synergists, resins and absorbers as well as new innovative products developed by our R&D team.

### LED Specialists Inc.

719

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wreisenauer@ledspecialists.com  
www.ledspecialists.com

LED Specialists engineers and manufactures custom solutions for UV curing and sterilization applications. Our specialty is long or wide irradiance applications, particularly those sensitive to additional heat from the UV source. Our products and designs operate various industrial environments. We apply our technology and expertise to offer customers cost effective products tailored to their applications and environments, and not the other way around. Stop by our booth and see Mike or Bill.

### Marubeni America Corporation

219

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Tech-LED is the web site run by the LED business unit of Marubeni America Corporation. Marubeni America Corporation is a 20% shareholder of Ushio Epitex Incorporated. Our goal is to support your LED requirements by offering more than 50 wavelengths from 360 to 1550 nm, available in SMD, thru-hole packages, multi-chip arrays and chip form. We will also offer custom LED and chip-on-board solutions.

### Melrob US Inc.

205

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marc.jackson@melrob.com  
www.melrob.com

Melrob US Inc. is a supplier of oligomers and monomers for energy cure systems. Featured products include low migration ethoxylates, scratch resistant urethanes, low gloss resins, and colloidal silica, alumina and zirconia dispersed in acrylates. Melrob also supplies monomer building blocks used in the synthesis of specialty resins. All products are sold with the original manufacturer COA. Our products are stocked in US warehouses.

## LISTING OF EXHIBITORS

### METTLER TOLEDO

421

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**Columbus, OH 43240 USA**  
**PH 800-638-8537**  
**FX 614-438-4900**  
**labinsidesales@mt.com**  
**www.mt.com**

METTLER TOLEDO thermal analysis excellence instruments allow you to characterize sample materials over a very wide temperature range. Control all the instruments from a single, powerful, easy-to-use software platform. Each instrument configuration has the highest level of performance so you can have complete confidence in your results.

### Miltec UV Sponsor

707

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**PH 410-604-2900**  
**FX 410-604-2906**  
**bblandford@miltec.com**  
**www.miltec.com**

Miltec UV is the world's leading manufacturer of high-performance arc lamp and microwave powered UV curing systems. The peak irradiance UV output of a Miltec arc or microwave powered UV system is the highest in the industry. Our "user-friendly" designs make our systems extremely easy to install, operate, and maintain. Our experienced engineering team can design turn-key UV solutions for any UV application. We also offer UV bulbs and parts to support all UV systems.

### Miwon Specialty Chemical Co., Ltd.

 Sponsor

701

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**The Commons at Oaklands**  
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**E-mail: orders@miwonus.com**  
**www.Miramer.com**

Miwon Specialty Chemical, a leading global producer of acrylate and methacrylate monomers and oligomers for use in many UV/EB applications, will spotlight several new specialty products, including raw materials for anti-fog coatings, LED cured inks, UV PUD's, UV water-borne coatings as well as tin-free oligomers, adhesion enhancing monomers and oligomers for plastics, high refractive index materials for optical and monomers & oligomers for "Soft Feel" applications. As manufacturing raw materials for UV & EB curing is our core business, we offer one of the broadest product lines for formulators utilizing this advanced and environmentally friendly technology. Through our global headquarters in South Korea, Miwon Specialty Chemical is aligned globally and supported regionally in China, Europe, and North America.

## LISTING OF EXHIBITORS

### MPD Chemicals

320

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**csmith@mpdchemicals.com**  
**www.mpdchemicals.com**

MPD Chemicals is a US-based manufacturer of specialty chemicals with over 75 years of global expertise in multiple technical areas, including complex organic synthesis, unique monomers, polymer development, organosilicon chemistries and stable isotope labeling. The subsidiary companies that comprise MPD Chemicals are Monomer-Polymer and Dajac Labs, Silar and IsoSciences. All three business units offer a vast array of catalogue chemical offerings, as well as custom, proprietary, critical, and enabling materials.

### NAGASE

718

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Delivering over 180 years of Japanese quality, NAGASE supplies innovative materials for UV/EB applications. Our product portfolio includes unique acrylate/methacrylate monomers and oligomers, cationic resins and photoinitiators, resins with hybrid functionality, as well as unique additives, such as nanoparticles and polymeric microparticles. With over 6,000 employees in 20 countries, Nagase brings together market insight with technical expertise to help customers solve development challenges. Visit our website to learn more: [www.nagaseamerica.com](http://www.nagaseamerica.com).

### Nedap Light Controls

613

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**tonnie.telgenhof@nedap.com**  
**www.nedap-uv.com**

Nedap is the world's leading company for UV Lamp Drivers for low and medium pressure lamps. We offer intelligent, dimmable electronic lamp drivers (ballasts), all CE, UL and cUL approved. Nedap combines high quality, efficient power conversion with intelligent controls allowing for the best UV systems at the lowest total costs.

### NETZSCH Instruments North America, LLC 521

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**www.netzsch-thermal-analysis.com**

Thermal analysis instruments for measuring the UV-curing behavior of adhesives, inks, paints, and more; Photo-DSC (Differential Scanning Calorimetry), Photo-DMA (Dynamic Mechanical Analysis), Photo-DEA (Dielectric Analysis). NETZSCH thermal analyzers support the OmniCure S2000 UV lamp for studying light-induced reactions or you can select your own UV-source. The duration and intensity of the UV exposure are software-controlled via NETZSCH Proteus® Software. Multiple shots can be triggered during each segment. The NETZSCH Photo-DSC can also be equipped with an autosampler.

## LISTING OF EXHIBITORS

### NICHIA Corporation 204

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www.nichia.co.jp/en/product/uvled.html

Nichia Corporation is the world's leading manufacturer of UV LEDs, as well as violet, blue and green laser diodes. Check out Nichia's latest world standard high power UV-LEDs for curing and printing. Nichia's portfolio includes high power SMD packages ranging from 365 nm to 405 nm, as well as new UV options within our industry standard 119 package type.

### Nordson Corporation 210

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### Opsytec Dr. Gröbel GmbH 720

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Opsytec Dr. Groebel GmbH is one of the world's leading suppliers of industrial UV measurement technology. Since 1981, we have been developing, producing, and distributing UV measuring instruments, UV sensors, UV equipment, and UV irradiation chambers for a wide range of industrial applications. All our UV sensors and measuring instruments are delivered with a calibration certificate traceable to the Physikalisch Technische Bundesanstalt (PTB) in Braunschweig. As PTB and NIST work together, our calibrations are traceable to NIST as well.

### Paint & Coatings Industry 315

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fowlert@bnpmedia.com  
www.pcimag.com

PCI is a global media platform that provides technical solutions for Chemists, Formulators and Manufacturers of paint and coatings. With a print circulation of 20,000 and web audience of over 38,000 as well as our social media community of over 25,000. PCI is the largest and most respected business media group in the paint and coatings sector worldwide.

### PCT Engineered Systems/ebeam Technologies 801

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In mastering the small electron, we create big changes: cleaner processes, no use of chemicals, significantly less energy consumption, better quality products and greater resource efficiency. PCT Engineered Systems, now part of COMET Group's ebeam Technologies, provides groundbreaking ebeam Systems and ebeam Engines. We design, build and implement ebeam systems that target curing, crosslinking and sterilization applications in the food and packaging industries. Learn more about ebeam technology at [www.comet-ebeam.com](http://www.comet-ebeam.com) or [www.teampt.com](http://www.teampt.com).

## LISTING OF EXHIBITORS

### Phoseon Technology 716

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In 2002, Phoseon Technology pioneered the use of LED technology for UV curing applications. As the world leader in UV LED curing, Phoseon provides patented LED technology to deliver rugged, high-performance products for application specific solutions. The company is focused 100% on LED technology and provides worldwide sales and support capabilities.

### PL Industries, division of Esstech, Inc. 510

**Contact: Lou Palermo**  
PH 1-610-299-4118  
FX 1-610-521-4600  
lou@palermolundahl.com  
www.esstechinc.com

PL Industries, division of Esstech, Inc., a specialty chemical company based in Essington, PA, USA with over 60 years of experience in Photocure will focus in on three areas at Radtech 2016. First, introduce a new Aliphatic Urethane Acrylate with the unique combination of low viscosity and high elongation. Second, provide an interesting analysis of a specialty Urethane Diacrylate vs. a Urethane Dimethacrylate. Third, present performance data on LED Compounds and Photoinitiators.

### Porex Corporation 420

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www.porex.com

Founded in 1961, Porex is a pioneer and global leader in the development and supply of high performance porous polymers, such as diffuse reflectors and water resistant vents. Porex microporous PTFE components have excellent UV resistance with industry-leading diffuse UV reflectivity (>97%), and available in custom 3-D shapes, domes, rods and sheets. Over 1,300 customers in 65 countries trust Porex to develop and supply their porous materials needs.

### Prime Coatings 717

**Contact: Dan Curtin**  
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dcurtin@primecoatings.net  
www.primecoatings.net

Prime Coatings offers an array of high performance UV/EB products including specialty sealers, primers, and topcoats. Gloss ranges of 4 to 96 are available for use on: Specialty films, including Vinyls and Composites, Vacuum metallized parts, Wood products, Various Metal substrates, Carbon Fiber, Sporting Equipment, Cosmetic Caps, and many others.



# LISTING OF EXHIBITORS

## Printed Electronics Now

214

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**www.printedelectronicsnow.com**

Printed Electronics Now is a magazine, web site and weekly e-newsletter devoted to the fast growing field of electronic products created through the printing process, an emerging industry that promises to revolutionize the methods in which electronic components and systems are manufactured. Printed Electronics covers solar cells, batteries, displays, sensors, medical devices, military equipment, and much more. In the near future, the world will be treated to displays on packages, on pharmaceuticals that remind users when to take the drugs, more advanced electronic readers, flexible dashboard displays in vehicles, printed solar panels, and disposable devices that promise to revolutionize medical testing.

## PROCHEMA Handelsgesellschaft m.b.H.

221

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**www.prochema.com**

APUREX is the recently set up, self-reliant branch of an European Distribution Group and is focusing on their multinational customers and selected customers branches in NA markets. The products being exhibited at Booth #221 are UV CURABLE MONOMERS AND THEIR PRECURSORS. Manufactured by carefully selected, qualified Asian manufacturers. Hereunder are Mono-, Di-, Tri- and multifunctional Acrylates and Methacrylates, such as IBOA, IBOMA, HDDA, DPGDA, TPGDA, TMPTA, Di-TMP, TMP, NPG, Penta, Di-Penta.

## rad-solutions llc

206

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**PH 214-213-7472**  
**FX 214-594-6953**  
**dbognar@rad-solutions.com**  
**www.rad-solutions.com**

Full range of acrylates and methacrylate monomer and oligomers for UV/EB. Custom blends and stabilizer packages. Formulation assistance and toll production.

## RadTech—The Association for UV & EB Technology

816

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**FX 240-209-2337**  
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## RAHN USA Corporation

509

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**steve.lundstram@rahn-group.com**  
**www.rahn-group.com**

RAHN is a premier worldwide supplier of additives, oligomers, monomers, photoinitiators and other customized specialty chemicals. Our products are used in ultraviolet and electron beam cure technologies and are essential components of high performance inks, coatings, adhesives, medical, 3D printing, rapid prototyping and other applications. The range of products are established under the trademarks GENOMER®, GENORAD®, GENOCURE® and GENOPOL® and are widely used industry standards.

# LISTING OF EXHIBITORS

## Red Spot Paint & Varnish Co., Inc.

514

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**customerservice@redspot.com**  
**www.redspot.com**

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Spectra Group Limited offers a wide variety of formulated photopolymer products (coatings, adhesives, specialty applications). The company also remains committed to research and development activities for its existing and new customers from our creative team of scientists. Other products include color change technology, including printed radiometric films, and specialty photoinitiators.

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www.strathmoreproducts.com

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### Sunlite Science & Technology, Inc. 409

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### Sustainable Green Printing Partnership 818

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Synasia is a manufacturer of Cycloaliphatic Epoxy Resins used with UV Cationic or conventional cure. Capacity of Cycloaliphatic-Epoxy: 2000 tons. Synasia supplies Photoinitiators, Diamines, Isocyanates and anhydrides. Synasia specializes in custom synthesis, contract and toll manufacturing from our manufacturing site in China. Reaction processes: Friedel Crafts reactions, Azide Chemistry, Birch Reductions, Bromination, Chlorination, fluorination, Amination, carboxylation, diazotization, methylation, Cyanation, esterification; other condensations.

### Toyoda Gosei 416

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### UV Chem-Keys Co., Ltd.

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UV+EB Technology—a magazine dedicated to ultraviolet and electron beam curing technologies—features technical articles, application highlights, industry news, new product announcements and more. Its content reaches approximately 24,000 readers every quarter through a printed publication and digital edition, as well as a monthly ENewsletter and website. *UV+EB Technology* is an official publication of RadTech International North America, featuring technical articles recommended and reviewed by RadTech's Editorial Board.

## CONFERENCE NOTES

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### Zhejiang Yangfan New Materials Co., Ltd. (Shou & Fu Chemicals)

619

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