

INTERNATIONAL METAL DECORATOR

In This Issue

Membership News
Excellence in Quality
Conference Agenda
Resource Directory
Website Report
3D Printing Explained
IMDA at Cannex

Save The Dates

Annual Scholarship
Golf Outing
Tuesday, May 24, 2016

Annual Conference
Wednesday, May 25
&
Thursday, May 26, 2016

Hilton Oak Brook Hills
Oak Brook, IL USA



The IMDA Stays on Top

Your Board of Directors and Officers continue to listen and learn about the needs of our Members and the Industry. We strive to stay abreast of the latest technology and all that is offered on new equipment, processes and services. With that in mind, we are pleased to offer this year's Conference agenda titled *Innovation & Technology: Keeping Us Competitive*. The agenda will include presentations fashioned to enlighten on brand matters, equipment improvements, regulatory updates, practical new curing applications and methods to enhance your efficiencies. As an added feature to our Conference, we bring in motivational speakers who we feel will present an outside view and perspectives to assist us as we maneuver through our daily routines. This year is special as we present Steve Garvey, former professional baseball player and spokesperson. We are certain that he will be most entertaining.

All of the information on the Conference is posted in the Event section of www.metaldecorators.org.

We are especially thankful for the outpouring of Sponsorship support for our Conference and Excellence in Quality competition. Please join us in thanking those gracious companies who provide the needed financial support to help your non-profit association bring you the high quality speakers and award presentations. We have listed the companies who have participated thus far in this newsletter.

Decorators, we hope that you have given consideration to nominating one of your craftsman for our *Decorators of the Year* and have selected your winning entries for our *Excellence in Quality* showcase. There is still time to submit both and then be acknowledged during our Awards Luncheon on May 25th.

While we continue to work on our Conference preparation, we will find the time to tell the IMDA story at Cannex in Denver from April 27-29. If you are in attendance, stop by our booth and pay us a visit.

We are looking forward to seeing you soon.

Faternally,

Your IMDA Officers

DecoDates

April 27-29, 2016

Cannex de las Americas
Denver, CO USA
www.spgevents.com

May 24, 2016

IMDA Scholarship Golf Outing
Hilton Oak Brook Hills Resort
Oak Brook, IL USA
Tel: 410-252-5205
E: info@metaldecorators.org

May 25-26, 2016

IMDA Annual Conference
Hilton Oak Brook Hills Resort
Oak Brook, IL USA
Tel: 410 252 5205
E: info@metaldecorators.org
metaldecorators.org

May 31-June 10, 2016

Drupa 2016
Dusseldorf, Germany
www.drupa.com

June 15-18, 2016

Propak Asia 2016
Bitec, Thailand

MEMBERSHIP STATISTICS

(as of October 15, 2015)

MEMBERS	5 6 3
HONORARY	3 5
PRIVILEGED	2 0
TOTAL	6 1 8
COUNTRIES	2 8



2016 IMDA Annual Conference *New Location*

Hilton
Oak Brook Hills Resort
Oak Brook, IL
May 24 - 26, 2016



CONFERENCE REGISTRATION

Visit the events section of www.metaldecorators.org for all registration forms and to reserve your hotel room. You can also find the golf outing registration there. Need assistance? E:info@metaldecorators.org for help; we will gladly assist.



metaldecorators.org

2016 OFFICERS & DIRECTORS

President

Art Hurley, Silgan Closures*

Vice President

Dr. William Hoyle, Hoyle Consulting*

Secretary Treasurer

Renee Schouten, INX International Ink*

Executive Director

Michael Masenior*

Directors

John Clark, Heraeus Noblelight America
Rick Clendenning, INX International Ink Co.*
Craig Eberts, Honorary Member*
Joe Finan, INX International Ink Co.*
Mark Finch, Silgan Containers
John Friedman, Northern Container
Eugene Furey, Honorary Member*
William Graue, Honorary Member
Nick Hammer, Ardagh Group
Janelle Harris, Past President*
Jim Hogan, Rexam Beverage
Kyle Hurla, INX International Ink Co.
Jack Knight, INX International Ink Co.*
James Lore, Watson Standard
Kenneth Matyska, Honorary Member*
Ted Nevins,
Mark Novotny, Nordson Corp
Neal Santangelo, Urethane Roller Specialists*
Allan Sayers, Sayers Publishing
Phil Shaughnessy, Crown Cork & Seal
Gary Silke, Honorary Member
Steve Steerman, Ball Corp
Mark Von Bokel, SGS International
John Wise, Metal Container
Michael Yavorski, Valspar Corporation*

* Executive Committee Member

Memorials

We are saddened to report the passing of long time industry leader, **Jack Rodzak** in March, 2016.

We send our condolences to his family.

We Welcome our New Members who were approved for membership into the IMDA during our October Board Meeting. We wish you many years of rewarding membership.

First	Last	Company	Country
Monica A.	Baptiste	Xrite Incorporated	USA
Seref	Basaran	Basaran Grinder	USA
Mark	Bell	Nordson Corporation	UK
Wang	Cho	Jiangsu Guotie Sheet Co	CHINA
Clint	Duba	INX International Ink Co	USA
Randy	Ehrsam	National Coatings, Inc.	USA
Sunvil	Gidumal	GM Metal Packaging Ltd	HONG KONG
Matt	Hillhouse	National Coatings, Inc.	USA
Lv	Lily	Guangzhou Eagle Coin Enterprises Grp	CHINA
Holgn	Lubcke	Ibea GmbHHamburg	GERMANY
Gordon	MackKay	Xaar plc	UK
M.G.	Mammen	Avon Crowncaps & Containers Plc	NIGERIA
Raymond	Ng	Hammill Asia	MALAYSIA
Robert	Speiss	Hell Direct Laser Engraving	USA
John	Sweeterman	CTI	USA
Michael	Tschol	SPGPrints Austria	AUSTRIA
Ray	Walker	INX International Ink Co	USA
Eric	Wu	Guangzhou Judong Chemical Co	CHINA
Amos	Yao	Nanshan Group, Light Alloy Co Ltd	CHINA

MEMBERSHIP NEWS

IMDA Committees and Chairpersons

The following persons are in the current leadership roles. If you wish to join a committee, please email us at info@metaldecorators and let us know what committee you want to participate on. We will contact you soon after.

Conference Committee: Dr. William Hoyle
Scholarship Golf Outing: Kyle Hurla
Newsletter: Michael Masenior
International Outreach: Jack Knight
Website: Renee Schouten
Social Media: Michael Masenior
Membership: Mark Novotny
Decorator of the Year: Ken Matyska
Excellence in Quality: Michael Masenior
Scholarship: Gene Furey (only open to Past Presidents)
Nominating: Joe Finan (only open to Exec. Committee)
Technical Resource: Steve Steerman

Future Newsletter Publications

Request for Articles

Following are the dates of future publications and featured topics. If you wish to submit copy, please email the files to info@metaldecorators.org by the listed due dates.

Second Quarter 2016 (copy due April 30, 2016)

Topics: Pre-Press

Quality and Vision Systems

Mark your calendars, inform your PR staff, marketing departments and others key to providing valuable information for our industry.

Membership Outreach - We Will Be Exhibiting At Cannex

The IMDA will be participating at Cannex being held in April in Denver from April 27-29. This will be a great opportunity to share our membership benefits and to promote our upcoming Conference in May. We extend a hearty Thank You to Allan Sayers, the show organizer, for providing the complimentary booth to the IMDA. If you wish to assist at the IMDA booth, please contact Michael Masenior @ info@metaldecorators.org

2016 SCHOLARSHIPS

We have received 15 requests for applications as of this writing and 10 completed applications. We look forward to awarding the scholarships to our worthy students during our Awards Luncheon on Wednesday, May 25. In order to fairly select the winners, copies of the essays will be sent to each of the judges, seven past presidents, with all identifying information removed. Each judge will be asked to rank the essays in order of merit. This approach is totally equitable in that it is blind to the member and candidate names.

Thank you to the IMDA Memorial Scholarship Golf Outing Committee for organizing this year's event again. The proceeds from this outing fund our scholarship program.

Golf Committee:

Kyle Hurla, Chair, Art Hurley, Gene Furey, John Greenwald, Bill Hoyle, Ken Matyska, Jack Knight and Gary Silke.



www.metaldecorators.org

Website Report

Whether you are a new or current member, if you haven't visited the IMDA website recently you are missing out! You will find an abundance of information for our members and industry associates. Whether you're a canmaker or supplier you can find industry info, technical resources, resource and member directories and an abundance of information related to the mechanical, technical and manufacturing phases of the metal decorating industry.

What's New?

We Have a New Look, Check Us Out!

2015 Annual Conference Presentations, Photos and Awards are posted. We have more industry information presented after our Website Committee, chaired by Renee Schouten, added new topics and graphics.

You will also find sections on the Environment & Recycling, Regulatory & Compliance and Trade Associations.

Look for our Resource Directory and Membership Directory updates which are made each quarter.

The Resource Directory, linked directly from the homepage continues to be updated as it is one of our most viewed pages. If you aren't listed and would like to be please email info@metaldecorators.org

The newly formed Technical Resource Committee, chaired by Steve Steerman, will be providing timely and pertinent articles for inclusion on our website in the near future.

The IMDA website has gone Mobile. It has been updated to be user friendly on mobile friendly devise such as phone, pads and tablets.

If you have any ideas, suggestions or comments about the IMDA website please email us at info@metaldecorators.org.



20th Annual EXCELLENCE IN QUALITY COMPETITION for 2016

In a month's time we will know who our award winners are for this year's metal decorating competition. With the addition of new categories, our goal is to showcase more products and methods used in decorating metal. We are excited to be presenting the awards during our Awards Luncheon on May 25 to the worthy companies who are dedicated to producing highly decorated products.

We extend a special Thank You to the companies listed below for their 2016 Sponsorship, not only in a financial way, but for believing that there is value in recognizing those metal decorating companies who participated. Without your support, our showcase would not be a reality.

2016 Sponsors

Gold Level



Silver Level



Bronze



Notes from the IMDA Board of Directors Meeting

October 2015 Minutes

International Metal Decorators Association Board of Directors Meeting
October 13, 2015
Hilton Oakbrook Hills

In Attendance:

Mike Masenior
Art Hurley
Bill Hoyle
Renee Schouten

Joe Finan
Mike Yavorski
Gene Furey
Craig Eberts
Janelle Harris

Mark Novotny
Kenny Matyska
Mark Vobokel
Phil Shaunessey
Kyle Hurla

The meeting at Hilton was brought to order by President Art Hurley

- 1) Invocation was given by Craig Eberts
- 2) Treasurer report was given by Renee Schouten. The 6 month ending June 30 report showed the IMDA's financial position is remaining strong.
- 3) Secretary report was delivered by Renee Schouten. Letters received from members were shared with the Board.
- 4) Committee reports were introduced by President Art Hurley
 - i) Art provided a meeting schedule and individual committee mission statements.
 - ii) The Goal is to get the committees moving in a better direction. Art Hurley will be contacting current leaders to confirm participation from leadership and committee members
 - iii) We want to target our younger members to cultivate their participation and to bring them along.
- 5) Conference Committee report was given by Bill Hoyle, Conference Chair
 - i) Bill reached out to committee members for their support and has developed a committee consisting of active participants.
- 6) Golf Committee report was given by Art Hurley for Kyle Hurla
 - i) We discussed having a helicopter promotion before the golf dinner as an additional money maker raffle to raise more funds for the scholarships.
 - ii) It was noted that we need to ensure that we have a good pace during golf as this course is more difficult than Indian Lakes.
- 7) Scholarship Committee report was given by Chairman, Gene Furey
 - i) We are in our 11th year of awarding to family members and there is a 40% chance of winning
 - ii) In 2015 we had 20 applicants of which 7 students were awarded a scholarship.
- 8) Newsletter report was given by Mike Masenior
 - i) We remain on target for issues
 - ii) Our next issue locked down - Mike deciding on article and then approaching companies – 3D printing is coming up.
 - iii) 2016 wants to change the look and have his graphics department handle. Proposed charging \$100 for resource directory per year to help with the cost to go full color in the future.
 - iv) Mike will put together budget scenarios for charging for resource directory
 - v) Joe Finan proposed showing more explicitly the value of sponsorship to encourage people to sponsor which would include the resource directory.
 - vi) Provide members a menu of sponsorship and advertising opportunities.
 - Tabletop \$350 (available line item)
 - Prospectus listing and Conference Program (incl. with tabletop and sponsorship)
 - Onsite recognition on banner and signs (incl. with sponsorship)
 - Website link for a year \$750 (incl. with sponsorship)
 - Resource directory \$100 (available line item)= \$1200
 - vii) Renee to propose branding guidelines for the association by January 1st.

- 9) Quality report was given by Mike Masenior
 - i) We are celebrating our 20th year in 2016
 - ii) Moving competition up a month to give time for more promotion
 - iii) Aerosol, closures, general line, craft cans, 2 pc, specialty and miscellaneous. Proposed to add digital and monobloc and discussed to break out flat sheet and 2 pc aerosol. Agreed to add digital, 2 pc non beverage (monobloc) and move flat sheet aerosol to general line.
 - iv) Discussed the judging process so all understand the procedure.
 - v) Mike will provide members with applications to distribute around the world. He is going to ask press manufacturers to promote it as well.
- 10) Decorator of the Year by Ken Matyska and Mike Masenior
 - i) Recognized 4 companies in 2015.
- 11) International Outreach report was introduced by Mike Masenior in Jack Knight's absence
 - i) Janelle Harris gave a report on the IMDA's Cannex participation in China. We had 18 people signed up from outside the US. She offered to attend Cannex in Denver this April. Steve Steerman and Mike Masenior can attend as well for under \$5,000.
- 12) Website report was given by Renee Schouten
 - i) Website is now mobile friendly
 - ii) Renee will add language translations to her budget proposal
- 13) Nominating by Joe Finan
 - i) Confirmed the Board needs to target the younger generation and think about next line-up of board members and officer positions. Board members should provide recommendations to Joe and he will reach out to gauge their interest.
- 14) Membership by Mark Novotny and Michael Masenior
 - i) Reviewed provided membership statistics. Our 647 membership was reduced by 48 to 599 members due to changes in the past year. We had 19 new members voted into the membership yielding a total membership as of October 1st of 618. Of those, 563 are active, 35 are honorary members, and 20 have the privileged status. 85% of Membership consist of members from the US, and 15% represent 28 countries. Our membership consists of 63% suppliers and 37% metal decorators.
- 15) Other Business
 - i) Future site selection by Mike Masenior

Reviewed 2017 changes in contract including increases in room rate, golf and F&B. Executive committee proposed signing for 2017 and then discussing 2018 after 2016 conference. The Board agreed to contract Hilton Oak Brook Hills for 2017.
 - ii) The newly formed Technical resource committee report was given by Mike Masenior

Mike discussed expectations of the committee. Wants team chair and team members to look at the available information by approaching different companies to provide technical information for the website and articles for the newsletter as well as conference presentations. They don't have to write the articles they just need to find them.

 - Steve Steerman will serve as the Chair for this committee
 - Steve Steerman volunteered for 2 piece
 - Phil Shaunessey volunteered for flat sheet
 - Mike Yavorski volunteered for coating
 - Carl Thomsen volunteered for ink
 - iii) Administrative matters by Mike Masenior

Mike informed BOD that we will purchase \$1M Directors and Officer Liability insurance policy for officers, directors and committee members

Mike informed BOD we are working on a Conflict of Interest Policy to be presented to the Board in May 2016 for review.

A motion was presented to adjourn the meeting and was approved.

Submitted by Renee Schouten, Secretary-Treasurer



2016 Conference Agenda Innovation & Technology: Keeping Us Competitive

Wednesday, May 25th

8:00 am – 8:45 am

ANNUAL MEMBERSHIP MEETING

9:00 am – 12:00 noon

GENERAL SESSION

KEYNOTE PRESENTATION

Scott Biondich, *Packaging Innovation and Design LLC*

John Adams, *Aluminum Packaging Solutions LLC*

FINANCIAL MARKETPLACE

Tim Burns, *Cranial Capital*

BPA and the Lifecycle of a Packaging Material

Tom Mallen, *Valspar Corporation*

MOTIVATIONAL SPEAKER

Steve Garvey, *Garvey Management Group*

(Former MLB Professional Baseball Star)

12:00 noon – 1:15 pm

AWARDS LUNCHEON *Scholarship, Quality, Decorators of the Year and Member of the Year awards*

1:30 pm – 5:00 pm

BREAKOUT SESSIONS FOR FLAT SHEET AND TWO PIECE

Presentations on Vision Inspection Systems, Abatement Solutions, Oven & Oxidizer Set up and Maintenance, Inking Systems, Platemaking, Press Repairs, Materials Testing, and more Technical Topics.

5:00 pm – 7:00 pm

TABLETOP EXHIBITS & SPONSOR HOSTED HOSPITALITY

Featuring Prize Drawing Giveaways

Thursday, May 26, 2016

8:30 am – Noon

GENERAL SESSION

Presentations on Measuring Consumer Impact on Can Innovation, Food Labeling Regulatory Guidelines, Ink Standards and New Curing Technology.

Noon – 1:00 pm

LUNCHEON & NETWORKING

featuring Raffle Drawing and closing remarks.

Visit www.metaldecorators.org, Events Section, to see the latest agenda copy.



The Mystery of 3D Printing Revealed

Paul Palovich, Printing 3D Parts, Inc.

There is a realization that the advantages of 3D printing for rapid prototyping are not being fully utilized in the packaging industry. Other industries, especially automotive, have been more extensively using 3D printing technologies for rapid prototyping for over thirty years.

Professionally conducted surveys indicate about 33% of companies in the packaging industry already use 3D printing technologies. The main use is for rapid prototypes but other uses include tooling and machine part development.

About a third of the companies that don't use 3D printing technologies state the advantages are not clear and the best way to utilize the technology is not known. But the vast majority of those companies plan to start using 3D printing technologies within the next two years.

Just what is 3D printing?

By definition, 3D printing is a term used to describe a process used to create a three dimensional object. Successive layers of a material, usually plastic, are laid down under computer control. The three dimensional object being printed exists in a computer file as a collection of data points connected in the shape of the object. The 3D printer reads the data one layer at a time as it deposits material one layer at a time. This is why 3D printing is also known as "additive manufacturing".

We are all familiar with 2D printing...whether it is our laser jet printer connected to our home computer or the plates we use to lithographically decorate the cans/packages we produce at a volume of millions per day. 2D printing has only length and width. 3D printing adds height.

What are the advantages/disadvantages for the packaging industry?

The major advantages of 3D printing in the packaging industry are saving money and time in the overall packaging design process. Money is saved because there is no tooling expense. Time is saved in two significant ways:

1. There is no long lead time waiting for tooling to be built.
2. The time needed to establish brand recognition of a new product is significantly reduced. Packaging is critical to brand management, as is the printing of packaging. 3D printed rapid prototypes, being labeled with full color graphics and text, allow the brand owners to conduct the necessary marketing studies and design reviews in significantly reduced timeframes. Any design revisions in the container shape and/or the label can be incorporated in new prototypes within days. As a result, brand recognition can be established and proven before the first high volume product is on the retail shelf.

It is paramount, however, that the 3D printed rapid prototype be an accurate representation of the container that will eventually be manufactured in high volume production. The quality of the 3D printed prototype must have the smooth surface and the dimensional accuracy and precision of the final tooled package. Finally, for complete concept visualization of a production container, a label with full color graphics and text must be applied.

The textured parts printed with tabletop 3D printers are more like trinkets than accurate prototypes. There are only a few types of 3D printers on the market that can print with the quality needed for acceptable packaging prototypes.

The one disadvantage of 3D printing is the fact it is a low volume manufacturing process. But prototyping has always been a low volume situation. That is why 3D printing is also called "rapid prototyping".

What is the 3D Printing Process?

The starting point for any 3D printing process is a 3D digital model of the part to be printed. This 3D digital model can be created in one of two ways:

1. Manually created on a computer using Computer Aided Design (CAD) software.
2. Scanning an existing part with a 3D scanner.

The digital model is then 'sliced' into layers by the CAD software, thereby converting the design into a file readable by the 3D printer. The material processed by the 3D printer is then layered according to the design and the process. There are a number of different types of 3D printing technologies, which process different materials in different ways to create the final object. The most common technologies are as follows:

- **Stereolithography (SL)**...bath of liquid resin cured by a laser beam
- **Digital Light Processing (DLP)**...Similar to SL but uses an arc lamp instead of laser
- **Laser Sintering (LS)**...powdered material fused by laser
- **Fused Deposition Modeling (FDM)**...plastic filament is melted then cooled
- **Binder Jet Printing (BJP)**...selectively spraying a binder into a bed of powder
- **Multi Jet Printing (MJP)**...selectively spraying material then curing with UV
- **Selective Deposition Lamination (SDL)**...alternating process of applying adhesive onto paper
- **Electron Beam Melting (EBM)**...higher energy beam melts powdered metal

Should my company have the 3D printing expertise internally or is it best to hire out the service?

As with most new technologies, companies need to decide whether to spend the human and financial resources to grow the core competency internally or just purchase the service from a company that already has the expertise. The first task is to identify your targeted market(s). This will allow you to quantify the cost drivers that must be evaluated. Then you need to evaluate the five major cost drivers that determine what financial investment is needed to become capable of 3D printing.

Cost Driver #1-Print Envelope

The print envelope identifies the physical size of the part the 3D printer can print. Typically, 3D printers having a print envelope of approximate eight inches wide by eight inches long by eight inches high are in the \$5,000 to \$60,000 range. 3D printers having a print envelope of approximately twenty inches high by twenty five inches long by twenty inches high range from \$75,000 to \$300,000. Of course, if your targeted market requires 3D printed parts larger than eight inches, it will be necessary to purchase the more expensive machines.

Cost Driver #2 – Print Resolution

The print resolution identifies the accuracy, precision and surface texture of the printed part. 3D printers having a resolution range of one hundred to two hundred microns (0.004 inches to 0.008 inches) producing parts having a textured surface with reduced accuracy and precision. These 3D printers are in the \$5,000 to \$60,000 range. The higher resolution machine prints in a range of twenty five to thirty five microns (0.0009 inches to 0.0014 inches) and is more expensive. The printed parts from these machines have a very smooth surface with high accuracy and precision.

Cost Driver #3 – Print Technology

As identified above there are many different print technologies all which drive equipment costs.

Cost Driver #4 – CAD Software

There are many different CAD software packages available. Most are optimized to perform a specialized design function but all are capable to produce the file extension readable by 3D printers.

Cost Driver #5 – 3D Scanning

3D scanning allows the creation of a CAD file when a CAD drawing doesn't exist. Many times the design of the finished product is very complex and manually drawing the complete shape is cost prohibitive. There are 3D less expensive table top scanners that require additional labor to construct the final CAD file. There are also 3D scanners mounted on robotic arms that allow for real time creation of CAD file of the finished part.

Printing 3D Parts, Inc. got its start over three years ago when we began investigating the use of 3D printing technology in the packaging industry. As owner of Meridian Arts & Graphics, Ted Webb, co-owner of **Printing 3D Parts, Inc.**, has been in the prepress and plate making business for over 25 years. I am also co-owner of **Printing 3D Parts** and a retired engineering manager from the automotive industry. My involvement in 3D printing began in the mid 1980's. Our combined career portfolios are the basis for answering the questions presented in this article.

METAL DECORATING RESOURCE GUIDE

AIR POLLUTION CONTROL

Adwest Technologies, Inc *(conference sponsor)*

1175 North Van Horne Way
Anaheim, CA 92806
Tel: 714-632-9801
www.adwestusa.com

Anguil Environmental Systems

8855 N. 55th Street
Milwaukee, WI 53211 USA
Tel: +1 414-365-6400
www.anguil.com

Babcock & Wilcox Megtec Systems

830 Prosper Street
De Pere, WI 54115
Tel: 920-337-1505
www.megtec.com

Environmental Services & Technologies *(conference and quality sponsor)*

4941 41st Street
Moline, IL 61265 USA
Tel: 309-762-9551
www.envsrv.com

Epcon Industrial Systems

PO Box 7060
The Woodlands, TX 77387
Tel: 936-273-3300
epcon@epconlp.com

Pro-Environmental, Inc

10134 6th Street, Suite K
Rancho Cucamonga, CA 91730
Tel: 909-898-3010
www.pro-env.com

ANILOX SYSTEMS

John M Travis Ltd

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Marble Falls, TX 78654
Tel: 740-974-5075
www.travisltd.com

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DYC Supply *(conference sponsor)*

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Virginia Beach, VA 23455 USA
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www.d-y-c.com

Package Print Technology

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Buffalo, NY 14207 USA
Tel: 800-382-8851
www.packageprinttech.com

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Schaumburg, IL 60173
Tel: 847-310-8140
www.premierblanket.com

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455 E. Clinton Place
St. Louis, MO 63122 USA
Tel: +1 314-965-0755
www.beckonworldwide.com

CHEMICALS & MATERIALS

Coral Chemical Company *(see Lubricants & Cleaners)*

Grace Davison Materials & Packaging *(conference sponsor)*

7500 Grace Drive
Columbia, MD 21044 USA
Tel: +1 410-531-4000
bryan.t.pugh@grace.com

Henkel Corporation *(conference sponsor)*

32100 Stephenson Hwy
Madison Heights, MI 48071
Tel: +1 248-577-2243
www.henkelna.com

COATINGS

AkzoNobel Packaging Coatings *(conference and quality sponsor)*

16651 Sprague Road
Strongsville, OH 44136 USA
Tel: +1 440-297-5589
www.akzonobel.com

PPG Industries *(quality sponsor)*

500 TechneCenter Drive
Milford, OH 45150
Tel: +1 513-576-3100
www.packagingcoatings.com

Sidas Coatings, LLC

909-K Canterbury Road
Westlake, OH 44145 USA
Tel: 440-871-4164
www.sidasacoatings.com

Valspar Corporation *(conference sponsor)*

2001 Tracy Street
Pittsburgh, PA 15233 USA
Tel: +1 412-766-9300
packaging@valspar.com

Watson Standard *(conference sponsor)*

PO Box 11250
Pittsburgh, PA 15238 USA
Tel: +1 724-275-1000
www.watsonstandard.com

COATING APPLICATION SYSTEMS

Nordson Corporation *(conference sponsor)*

300 Nordson Drive
Amherst, OH 44001
Tel: +1 440-985-4000
www.nordson.com/container

COATING, PRESS & TWO PIECE ROLLERS

Finzer Roller, Inc *(conference sponsor)*

129 Rawls Road
Des Plaines, IL 60018 USA
www.finzerroller.com

Pacesetter Graphic Service Corp.

2672 Hickory Grove Road
Acworth, GA 30101
www.pacesetterusa.com

Rollercoat Industries *(conference and quality sponsor)*

10135 Hwy 62 East
Tampa, FL 33610 USA
Tel: 800-248-4351
www.rollercoat.com

Urethane Roller Specialists

100 S. Central Ave
PO Box 566
Eureka, MO 63025 USA
Tel: 800-367-1136
www.urethanageroller.com

CONSULTANTS

Beckon Worldwide, see Bodymaker spare parts

Environmental Services & Technology, see Air Pollution Control

DAMPENING SYSTEMS

Epic Products International

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Arlington, TX 76011 USA
www.epicproducts.com

FLAT SHEET PRESSES

Fuji Kikai Kogyo Co, Ltd. *(conference sponsor)*

44-2-10 Hachihonmatsuhigashi
Higashihiroshima, 739-0146 Japan
Tel:+81-82-428-2455
www.fujikikai.co.jp

KBA-MetalPrint *(conference sponsor)*

Wernerstr. 119-129
D-70435 Stuttgart, Germany
Tel: +49 711-69971-0
www.kba-metalprint.de

Crabtree of Gateshead *(conference sponsor)*

Trading Estate, Gateshead
Tyne & Wear, NE11 OSU UK
Tel: +44-191-487-5071
www.crabpress.co.uk

INDUCTION HEATING

Ajax Tocco Magnethermic *(conference sponsor)*

1745 Overland Avenue N.E.
Warren, OH 44483 USA
Tel: 330-372-8552
www.ajaxtocco.com

INKS

Chromatic Technologies, Inc *(quality sponsor)*

1096 Elkton Drive, Suite 600
Colorado Springs, CO 80907 USA
Tel: +1 719-592-1557
www.ctiinks.com

INX International Ink Co *(conference and quality sponsor)*

10820 Withers Cove Park Drive
Charlotte, NC 28278 USA
Tel: +1 704-372-2080
www.inxinternational.com

Sun Chemical *(conference sponsor)*

135 W. Lake Street
Northlake, IL 60164
Tel: 708-236-3798
www.sunchemical.com

LUBRICANTS & CLEANERS

Chemtool Incorporated

8200 Ridgfield Road
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