

# INTERNATIONAL METAL DECORATOR

## *In This Issue*

Membership News  
Color Control  
Film Weights  
New Equipment  
Excellence in Quality  
Resource Directory

## *Save The Dates*

**Annual Scholarship  
Golf Outing**  
Tuesday, May 19, 2015

**Annual Conference**  
Wednesday, May 20  
&  
Thursday, May 21, 2015

Hilton Indian Lakes  
Bloomington, IL USA



[www.metaldecorators.org](http://www.metaldecorators.org)

## *Metal Packaging, Solutions Through Education ....*

Our theme for 2015's Annual Conference. The seminar planning is underway and the agenda will include presentations on Color Management, Vision Systems, LED/ Arc Lamp Technology, Life Cycle Analysis, Regulatory Updates, New Coating Technologies, and other metal decorating related technical topics. If you have a topic of interest, please submit them to us as we are still in the agenda development stage. After hearing from our members, we are returning to our Breakout Session format for both Flat Sheet and Two-Piece metal decorating.

We will be sending out our registration materials in the near future and will alert you to when you can begin reserving your hotel rooms. As in the past, we will have a Hilton website for hotel registrations. Enhancing our conference promotions you will receive Eblasts through our Constant Contact IMDA account. Also, be sure to visit our Facebook and Twitter pages to stay current on the conference developments as they happen.

For those unable to attend 2014's Conference, we have posted the presentations and photos to our Member's Section of our website. Knowing that all members can not attend the conference, we are working to bring you resourceful information so you receive the full value of your IMDA membership.

This issue contains valuable technical information on color management and film weight controls in addition to our Resource Directory for finding equipment, materials and services. Keep in mind that this information is posted to our website and can be accessed 24/7 as a resource for you. We will update the Directory and the Technical Resource section quarterly as we go forward. If you have an article you wish to have published or if you have a request for information on a technical topic, please send your request to [info@metaldecorators.org](mailto:info@metaldecorators.org). Our goal is to build a stronger Technical Resource Library, like no other, to assist the metal decorating industry .

## *Change is Constant*



The IMDA consists of industry volunteers who offer their time, knowledge, skills and wisdom to the Association so that metal decorating continues to be the leading choice for packaging graphics. The strongest asset we have as an organization is our membership. In our 80 years of existence, we have experienced more than 45 slate of officer changes and have been able to maintain a consistent, viable and committed leadership. In October we added another slate change into the history books. While Janelle Harris has remained President until May of 2015, we have voted Art Hurley into our Vice President's position and Dr. William Hoyle into our Secretary/Treasurer office.

Art has completed his term of Secretary/Treasurer and now serves as our Conference Chair for 2015. As many of you know, Art served as our Golf Committee Chair for years and has demonstrated his commitment to the IMDA's continued success.

Dr. Hoyle has served on the Board of Directors and participates on the Golf Committee, Website Committee, and the Conference Committee. Bill's experience and guidance will be very valuable as we move the organization forward.

Please join in congratulating Art and Bill as they serve in their new positions. We know that they will be successful.

We are also pleased to announce the addition of two new Directors to the IMDA Board. Jim Hogan of Rexam Beverage Can and John Wise of Metal Container have joined the Board and both will bring new ideas and energy to our conference planning process.

During this year's Annual Conference, we conducted our first ever membership survey and we were pleased with the input. You asked the IMDA leadership to investigate new venues for our conference and we are currently negotiating with several hotels in the Chicago area to see if we can improve the location beginning in 2016. You told us that we can improve the value of membership by adding our conference presentations to the website. This year we video taped many of the presentations and they are posted in the member section of the website along with our electronic versions of the newsletter, our membership directory and other member information. Overall, you felt that the IMDA communicates well with you through our eblasts, conference promotions, newsletters and social media. We will strive to stay on track to keep you informed. Of course we listen to your input on our conference programs and fashion our agendas accordingly. We will publish the full results of our survey in the next newsletter slated for the 1st Quarter of 2015.

While we do experience a "quiet time" for our Association in the months of August and September, please know that we have gone into full production mode as we gear up for our Annual Conference, Excellence in Quality Competition, Scholarship Golf Outing and Selection process, and all that comes with the new year ahead.

We thank you for your loyalty, dedication, and support for this past year and those before. The IMDA is looking forward to our upcoming year and all that it presents.

With Best Wishes,

*Michael Masenior*

Executive Director

### INTERNATIONAL METAL DECORATORS ASSOCIATION 2015 OFFICERS

**Janelle Harris, President**



**Art Hurley, Vice President**



**Dr. William Hoyle, Secretary/Treasurer**



## DecoDates

May 19, 2015

### **IMDA Scholarship Golf Outing**

Hilton Indian Lakes Resort

Bloomington, IL USA

Tel: 410-252-5205

E: [info@metaldecorators.org](mailto:info@metaldecorators.org)

[metaldecorators.org](http://metaldecorators.org)

May 20-21, 2015

### **IMDA Annual Conference**

Hilton Indian Lakes Resort

Bloomington, IL USA

Tel: 410 252 5205

E: [info@metaldecorators.org](mailto:info@metaldecorators.org)

[www.metaldecorators.org](http://www.metaldecorators.org)

June 1-4, 2015

### **Cannex & Fillex Asia Pacific**

Guangzhou, China

For more information visit

[www.spgevents.com](http://www.spgevents.com)

### **GulfCan 2015**

Dubai, UAE

[worldcanconferences.com/gulfcan](http://worldcanconferences.com/gulfcan)

For more dates, visit

[metaldecorators.org](http://metaldecorators.org)

## MEMBERSHIP

### STATISTICS

(as of 10-15-14)

**MEMBERS 601**

**HONORARY 37**

**PRIVILEGED 21**

**TOTAL 659**

**COUNTRIES 28**



**The IMDA has a  
facebook page and we  
want you to like us.**

The page name is  
[facebook.com/metaldecorators](https://www.facebook.com/metaldecorators)

We are posting activities on our  
wall, industry tidbits, and fun stuff.

## *Conference Presentations*

We have posted the  
individual conference  
presentations on our  
website. You can find them  
in the Member Section.

Need assistance getting  
access?

E:[info@metaldecorators.org](mailto:info@metaldecorators.org)  
for help; we will gladly  
assist.



[metaldecorators.org](http://metaldecorators.org)



Your IMDA has a  
**Twitter** presence.  
You can follow us  
[@metaldecorators](https://twitter.com/metaldecorators)  
and we'll share  
some great infor-  
mation from our  
sources on Twitter  
as well as some  
gems of our own.

## 2014 -2015 OFFICERS & DIRECTORS

### **President**

Janelle Harris

### **Vice President**

Art Hurley, Silgan Closures

### **Secretary Treasurer**

Dr. William Hoyle, Hoyle Consulting

### **Executive Director**

Michael Masenior

### **Directors**

John Clark, Heraeus Noblelight Fusion UV

Rick Clendenning, INX International Ink Co

Craig Eberts, First Transitions

Joe Finan, INX International Ink Co.

Mark Finch, Silgan Containers

John Friedman, Northern Container

Eugene Furey, Honorary Member

William Graue, Honorary Member

Nick Hammer, IMDA Member

Jim Hogan, Rexam Beverage

Kyle Hurla, INX International Ink Co.

Jack Knight, INX International Ink Co.

James Lore, Watson Standard

Kenneth Matyska, Honorary Member

T.R. Moreau, Can Corporation of America

Ted Nevins, J.L. Clark

Mark Novotny, Nordson Corp

Neal Santangelo, Urethane Roller Specialists

Allan Sayers, Sayers Publishing

Renee Schouten, INX International Ink Co.

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

## **Memorials**

*We are sad to report the passing of our  
long time friends and members,*

**Robert N. Molnar Sr.**, retired PPG  
Industries

**Keith Underwood**, Privileged Member

# MEMBERSHIP NEWS

## 2015 SCHOLARSHIPS

WE WILL BE SENDING OUT THE REQUESTS FOR SCHOLARSHIP APPLICATIONS IN JANUARY OF 2015. SCHOLARSHIPS ARE AWARDED TO THE CHILDREN AND GRANDCHILDREN OF IMDA MEMBERS. REMEMBER THAT YOU MUST BE A MEMBER IN GOOD STANDING IN ORDER TO RECEIVE AN APPLICATION.

## 2015 IMDA DECORATORS OF THE YEAR

NOW IS THE TIME TO BEGIN THE THOUGHT-PROCESS FOR NOMINATING YOUR VALUABLE TEAM MEMBERS FOR OUR ANNUAL AWARD. THIS AWARD WILL BE PRESENTED DURING OUR AWARDS LUNCHEON AT THIS YEAR'S CONFERENCE. WATCH FOR THE APPLICATION BEING SENT OUT IN EARLY 2015.

## 2015-2016

## IMDA MEMBERSHIP DIRECTORY

WE WILL ONCE AGAIN PUBLISH OUR MEMBERSHIP DIRECTORY IN 2015. WHEN OUR DUES INVOICES ARE SENT OUT IN JANUARY, THERE WILL BE A FORM TO COMPLETE TO NOTIFY US OF ANY CHANGES TO YOUR INFORMATION.

IN THE MEANTIME, IF YOU NEED TO ACCESS THE MEMBERSHIP INFORMATION, YOU CAN FIND THE DIRECTORY IN THE MEMBER SECTION OF OUR WEBSITE:  
[WWW.METALDECORATORS.ORG](http://WWW.METALDECORATORS.ORG)



Welcome  
to the International Metal  
Decorators Association

**We welcome the following new members who were voted into the IMDA in October, 2014**

<b>First</b>	<b>Last</b>	<b>Company</b>	<b>Country</b>
Beth	Graves	Prime Controls, Inc	USA
Carrie	DuMars	Valspar Corp	USA
Eric	Friedman	Toray International America	USA
John	Murphy	Pressco Technology Inc.	USA
Stefan	Prohaska	KBA North America	USA
Julio C.	Ramirez Fuentes	EDM de Mexico	MEXICO
Tyler	Redslob	Pressco Technology Inc.	USA

***Congratulations to our new members. We hope that you have many years of rewarding membership in our Association. We look forward to seeing you in May at our Annual Conference Membership Meeting.***



## ***MetalStar 3 - The New Peak Performance Class in Metal Decorating***



The name MetalStar stands like no other for high performance and high-quality printing. With the MetalStar 3, KBA-MetalPrint is now introducing the next generation of this successful press – as renewed proof of its innovative strength. Based on the world-leading technologies of the latest large-format presses for printing on paper and board, the new MetalStar3 can be characterised not least by extended automation, high technical availability and robust engineering “made in Germany”.

The MetalStar3 has been fully redesigned. The feeder stands out by way of the proven DriveTronic technology, with its independent dedicated drives, and ensures stable and trouble-free production. The patented and equally proven KunziMatic vacuum registration system for tinfoil, aluminium and scroll sheets has been further optimised and guarantees perfect infeed precision also at high production speeds.

The inking unit of the MetalStar3 is the most stable and the fastest reacting inking unit in metal decorating and satisfies the highest quality standards right up to maximum speed.

One world first is DriveTronic SPC. Thanks to the separate direct drives on each plate cylinder, the plate changing process is completed simultaneously on all printing units in just 75 seconds, irrespective of the number of printing units involved. As an extra plus, further makeready processes such as blanket or impression cylinder washing can run parallel to plate change. That permits a dramatic reduction in makeready times.

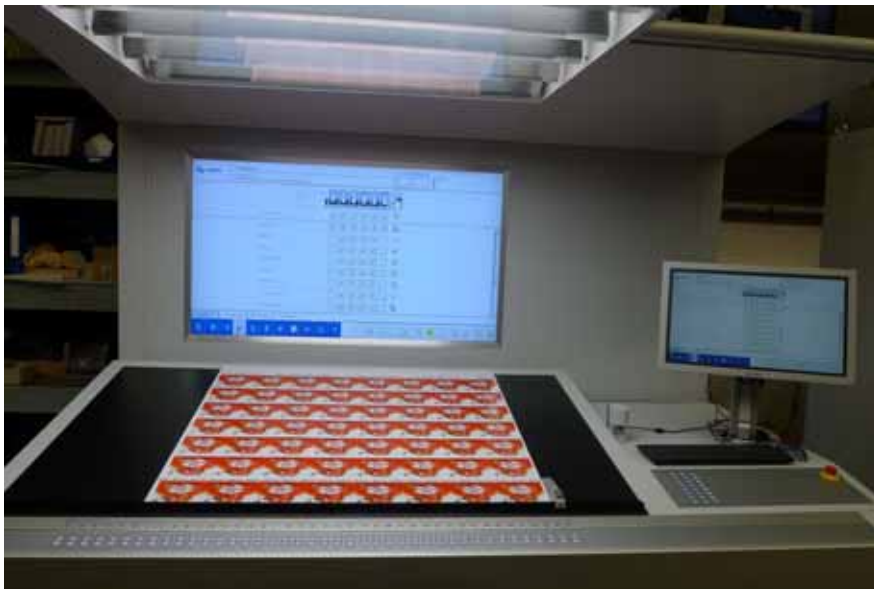
Completely new in metal decorating is the washing system CleanTronic Synchro. With this technologically ingenious solution, it is possible to program a parallel washing process for both the blankets and impression cylinders, or else to wash the blanket from both sides with two cloths. The extreme time savings of up to 50% bring greater efficiency.



With DriveTronic SPC it is possible to program parallel makeready processes

Another innovative feature is DriveTronic SRW (Simultaneous Roller Washing). Thanks to a separate drive which enables the inking unit to run independently of the rest of the press, ink rollers and blankets can be washed at the same time. In combination with CleanTronic Synchro, it is even possible to wash the rollers, blankets and impression cylinders simultaneously. Washing times are then reduced to the absolute minimum.

The new console of the MetalStar 3 is designed as a straightforward and clearly arranged central operating point. With its modern, Windows-based control software, the user-friendliness of the whole press interface has been raised to a new level. All press functions can be controlled conveniently by touchscreen, and all relevant press parameters can be saved as job-specific preset data for repeat jobs. One new function is a job changeover program for automatic execution of all preselected makeready processes in optimised, time-saving order. An optional wall screen serves to visualise all press settings. An integrated remote maintenance module, furthermore, provides Internet-based access to all the important sections of the complete production line at any time.



The new Windows-based ErgoTronic console is functionally and clearly arranged

There is one thing above all others, however, which is associated almost naturally with the name MetalStar, and that is production speed. The MetalStar 3 is and remains the fastest metal decorating press in the world, with the fastest makeready times in the industry.

Discover the unique technology and efficiency of the new MetalStar 3.

**KBA-MetalPrint GmbH**

Wernerstr. 119-129

70435 Stuttgart

Tel: +49-711-69971-0

Fax: +49-711-69971-670

info@kba-metalprint.de

www.kba-metalprint.de



# 19th Annual EXCELLENCE IN QUALITY COMPETITION for 2015



Start gathering all of those award winning entries to be submitted into the 2015 Excellence in Quality Competition. This year promises to be one of the best showcases ever as we will include the new Craft Can category. Last year's Craft Can category was full of fun designs and high quality printing. We are moving the deadline forward by two weeks in order to have a better display of the products at the conference and more opportunity to photograph the entries for inclusion into our publicity and promotion pieces distributed to the market. The Deadline for entry in 2015 is April 15.

**We extend a special Thank You to the below listed companies for your support in 2014, 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.**

## Gold Level



## Silver Level



## Bronze Level





## How Can Makers Avoid 50 Shades of Red and Maintain Global Brand Recognition

by:

Shaun Sandison, Technical Manager 2pc Metal Deco, Sun Chemical

There are two key things that brand owners always demand. The first is to maintain consistency in product quality. The second is global brand recognition through its packaging on all substrates, including metal.

In order to achieve this second core everyday requirement of brand owners, color consistency is critically important.

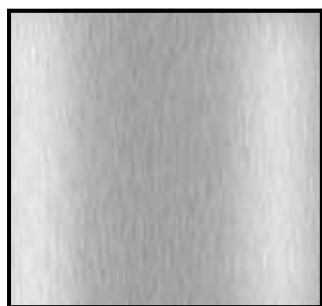
The historically fragmented nature of the supply chain where large brand owners using many design agencies, prepress graphics providers and multiple printers in different continents, can lead to a loss of control of the brand color and even the brand design equity itself.

To communicate brand value and quality across continents, consistency is key and the days of color matching pack A in Mexico to pack B in Spain with an "it's close enough" response have long since passed.

Many market leading brand owners have identified that to achieve instant brand recognition by consumers, requires a higher level of management and ownership. Central to this process, it is important that the ink supplier embraces this philosophy and accepts their role in providing products that meet the criteria.

Multiple variables have an impact when working to achieve the same color across various substrates, whether matching visually or with color measurement devices. Many of these are often overlooked, as there is no apparent relationship with the color achieved.

Looking at each of these factors, we can predict which will have an impact on the shade of a color.



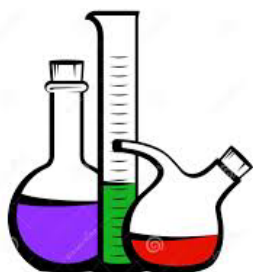
### The Substrate

The substrate can have a huge impact on color. As demand for steel and aluminum increases, the ability to obtain a consistent supply has become more difficult, leading to variability in the form of reflectance.

The more reflective the substrate, the greater the potential there is for a more metallic and transparent appearance.

This is a critical component when comparing color using a color measurement device as it has a big impact on the specular component of the color. The difference often leads to discrepancies between what the eye sees and what color measurement devices read.

This highlights the importance of using both specular included and excluded components (SPIN/SPEX) when comparing colors with color measurement devices.



### Chemical Processing

The chemical processing of the can in preparation for printing is a key manufacturing point. This part of the process produces the surface for the ink adherence. If the ink does not hold properly, it can lead to a technical failure. Even small variations can affect ink printability.

When printability varies, so can the perceived color. Poor printability allows the substrate to be



visible through the ink film, creating a shift in color which usually comes in the form of a 'dirtier' and slightly less transparent aspect.

Predictable changes in hue can also be seen. Typically reds become bluer, greens become bluer, and blues become redder.



### Varnish Product and Coat Weight

The varnish product and coat weight can have a considerable effect on color. Higher varnish film weights result in a more yellow appearance. Lower varnish film weights result in a perceived reduction in color strength, which in turn can result in higher ink consumption.

The opacity of the varnish also affects color strength. On the other hand, more opaque varnishes tend to lean towards a visual reduction in color strength.

These shifts in color strength and shade should not be underestimated, especially when color measurement devices are employed.



### The Ink

Of course, ink is the key visual component. If the ink supplier is not able to deliver accuracy and consistency, it would be impossible for the can maker to achieve the desired quality and appearance.

From pigment choice and color strength, to viscosity and printability, the ink supplier has to supply a product that enables the can maker to achieve the target shade.

By embracing these ideals, both the ink manufacturer and can maker will reap the benefits of improved efficiencies, quality and consistency throughout the workflow. The ink manufacturer

has to accept the responsibility of continuous improvement in the drive for greater color consistency.

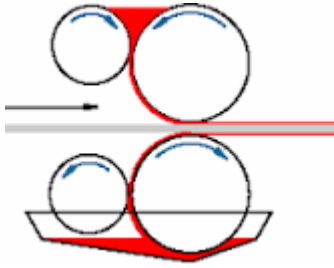
These are only some of the technical challenges that face both can makers and ink suppliers when trying to achieve "a good color match".

It has often been said that can decoration is a crude form of printing when compared to other types. However when you consider printing at such high speeds, it really is an engineering marvel.

Although the basic printing process has not changed significantly since its inception, the manufacturing process continues to gain efficiencies. These come in the form of ink and coating weight reduction, metal gauge downsizing, increases in line speed, and waste management.

Color control and management now adds a new dimension to these efficiencies and will continue to grow in importance.

*Shaun Sandison is a technical manager for 2-piece metal deco inks at Sun Chemical Corporation. He can be reached at 44 (0) 7825 397 835 or at [naimarketing@sunchemical.com](mailto:naimarketing@sunchemical.com).*



# Film Weight Control

*These are suggestions or guidelines to determine what variables affect films weights on coated sheets.*

## **Coating material operating temperature:**

- Check the Technical Data Sheet (TDS) for the suppliers operating temperature.
- Adjust the coating temperature if it is different from the specification on the TDS.
  - The ideal method to adjust the viscosity is using a coating heater.
- Coating that is below, colder, than the specified operating temperature will result in increased film weights.
  - Check your film weights, side-middle-side, adjust accordingly.
- If the coating must be warmed up use a drum heater, the drum of coating must be slowly mixed with an air operated mixer during the warm up time.
  - The quality of the coating could be affected by excess heat if not mixed during the warming up process.
  - The TDS will specify the maximum temperature, do not exceed it.

## **Coating stored in drums and/or bulk tank must be mixed/agitated before being used:**

- Drums of coating can be mixed using an air-operated mixer in the drum of coating.
  - The mixer should not be operated at the maximum speed to thoroughly mix the coating.
    - If the mixer is at maximum speed air bubbles will be created in the coating that could appear on the coated sheets.
- Another method used is a drum tumbler. The 55-gallon drum is clamped into the tumbler drum bracket then the drum is rotated end over end mixing up the coating inside the drum.
- Bulk tank storage systems usually have a mixing blade or re-circulation system installed inside the tank to continuously recirculate the coating stored inside.
  - If a mixer is used it should run no longer than 5 minutes per hour. This depends on the chemistry of the coating, check with your supplier.
  - The re-circulation system can run continuous, check with your supplier.
- Failure to properly mix a coating before use could result in the film weight running out of specification.
  - Coatings have a pigment to binder ratio that must be maintained. A coating consists of a binder, these are chemicals that when activated by a source will cross-link or cure the coated film.
  - A binder also is a carrier of pigments that are part of the chemistry of the coating. when not being used the pigment will settle out in a drum of coating. If this drum of coating is used that has not been properly mixed the pigments settle to the bottom, that area will have a lot of solids and will apply at a heavier film weight versus the other part of the drum with the binder and very little solids.
- The supplier may recommend mixing the coating in the supply pan during the operation of the coater. Some coatings may have a very high pigment percentage, which will require mixing in the supply pan. Check the CMDS, check with your supplier.
  - If an air operated mixer is used in the supply pan do not run it at the maximum speed. Running the mixer at high speed will cause bubbles to form in the coating that can result in eyeholes in the coated sheet plus have an affect on the coating weight. A moderate speed is acceptable, check with your supplier.
- The re-circulation process, from the supply pan to the coater then back down to the supply pan, maybe enough mixing for a coating. Check the TDS, check with your supplier.

## **Coating supplied at the specified weight per gallon and % solids:**

•*This situation is normally not a problem.* The coating supplier manufactures a coating at a specification listed on the TDS, the coating is certified by the supplier to fall within the indicated specification. The coating batches will vary within the specified range. If the coating is supplied at the low end of the range the film weight will run to the low side of the film weight specification when using an anilox roll. Conversely if the coating is supplied at the high end of the range the film weights will be higher.

A film weight control chart should be used to spot film weight trends. A test can be performed on suspect batches to determine if the coating has been made within specification.

### **Coating supplied in a 55 gallon drum:**

- After the coating has been used up in a drum a certain amount clings to the inside body, top and bottom of the drum, this is called clingage. Drums should be allowed to set upright for several days then pour out what is remaining from the inside to determine the clingage.
- This loss should be considered in a budget.

### **How a coater can affect film weight control:**

- Composition roller:
  - The roller runs on journals which must be maintained to the manufacturers specification, they will wear in time. Undersize surfaces will cause the roll to "float" up and down resulting in film weight variation.
  - Bearing boxes must have the correct size bearings in them that are in good operating condition. Worn bearings will cause the roll to "float" up and down resulting in film weight variation.
    - Check the film weight on a sheet starting at the edge of the sheet moving to the opposite end. Film weights should be checked across the width of the sheet, side-middle-side for up to a total of 15 measurements. This extensive analysis will highlight the film weight variation on a coated sheet. A statistical chart can be developed to determine process control or an out of control situation.
- Regrinding a composition roll:
  - The condition of the surface of the composition roll is vital for proper film weight control.
    - A highly polished roll surface is required for a uniform appearance and application of the coating being applied to the sheets.
      - If the composition roll was ground too quickly or too much urethane was ground off during the regrind the surface will have a rough appearance. This rough appearance will transfer into the coated surface on the sheets similar to an orange peel look, aside from a poor visual appearance, film weight could be effected.
      - As the composition roll is being reground heat is built up between the grinding stone and composition roll, if too much heat is built up then the composition rolls surface will have high and low spots/sections, these high and low areas will result in film weight variation on the coated sheet.
      - If the composition roll supplier grinds the surface of a coating roll without letting the roll cool down enough after it comes out of the enclave (curing oven) there could be high and low spots/sections in the rolls surface also resulting in film weight variation.
        - This is readily apparent when pressure is applied between anilox and composition roller, if this condition is present you will see the "high" and "low" sections as you apply pressure between the anilox and composition rolls.
        - To correct this situation an operator would apply additional pressure between the rolls until an over all wet look is achieved. At this point the film weight will not be correct as pressure can affect film weight and excess pressure can affect the condition of the bearings, gears, etc.
      - The composition rolls surface must be washed down with solvent after use then stored for several days to let the composition roll "dry out" before being reground.
        - If the roll is not properly cleaned a highly polished surface will not be achieved during the regrinding process. The coating or solvents on the surface will accumulate on the grinding wheel resulting in a poor regrind.
    - Grinding a composition roll on bearing surfaces versus centers.
      - A composition roll runs on bearing surfaces in the coater, when grinding the surface the lathe must be setup to grind on bearing surfaces.
        - A composition roll also has centers on the shafts but they are not maintained so if they are used to grind a roll then the film weight will vary, the roll will not run true in the coater.
      - The bearing surfaces must be maintained to keep them at the proper size, as they wear they will become undersized. When undersize they will float in the bearing boxes resulting in film weight variation.

*Thank You to IMDA Honorary Member Ken Matyska for providing these tips on film weight control.*

## METAL DECORATING RESOURCE GUIDE

We are providing key resource information for various services, products, materials and equipment used in the metal packaging industry. Our goal is to expand this Guide to be inclusive of what our industry has to offer. If you would like to add your information to the Guide, please email your information to [info@metaldecorators.org](mailto:info@metaldecorators.org)

### AIR POLLUTION CONTROL

#### **Adwest Technologies, Inc** *(conference sponsor)*

1175 North Van Horne Way  
Anaheim, CA 92806  
Tel: 714-632-9801  
[sgribbon@cecoenviro.com](mailto:sgribbon@cecoenviro.com)  
[www.adwestusa.com](http://www.adwestusa.com)

#### **Anguil Environmental Systems** *(conference sponsor)*

8855 N. 55th Street  
Milwaukee, WI 53211 USA  
Tel: +1 414-365-6400  
[info@anguil.com](mailto:info@anguil.com)  
[www.anguil.com](http://www.anguil.com)

#### **Environmental Services & Technologies** *(conference sponsor)*

4941 41st Street  
Moline, IL 61265 USA  
Tel: =1 309-762-9551  
[jrobinson@envsrv.com](mailto:jrobinson@envsrv.com)  
[www.envsrv.com](http://www.envsrv.com)

#### **Epcon Industrial Systems**

PO Box 7060  
The Woodlands, TX 77387  
Tel: +1 936-273-3300  
[epcon@epconlp.com](mailto:epcon@epconlp.com)

#### **Pro-Environmental, Inc**

10134 6th Street, Suite K  
Rancho Cucamonga, CA 91730  
Tel: +1 909-898-3010  
[www.pro-env.com](http://www.pro-env.com)

### ANILOX SYSTEMS

#### **John M Travis Ltd**

234 Carnoustie  
Marble Falls, TX 78654  
Tel: +1 740-974-5075  
[www.travisltd.com](http://www.travisltd.com)

### BLANKETS

#### **DYC Supply** *(conference sponsor)*

5740 Bay Side Road  
Virginia Beach, VA 23455 USA  
Tel: 800-446-8240  
[www.d-y-c.com](http://www.d-y-c.com)

#### **Package Print Technology**

1831 Niagara Street  
Buffalo, NY 14207 USA  
Tel: 800-382-8851  
[www.packageprinttech.com](http://www.packageprinttech.com)

### BODYMAKER Spare Parts

#### **Beckon Worldwide Inc** *(conference sponsor)*

455 E. Clinton Place  
St. Louis, MO 63122 USA  
Tel: +1 314-965-0755  
[sales@beckonworldwide.com](mailto:sales@beckonworldwide.com)  
[www.beckonworldwide.com](http://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](mailto:bryan.t.pugh@grace.com)

#### **Henkel Corporation** *(conference sponsor)*

32100 Stephenson Hwy  
Madison Heights, MI 48071  
Tel: +1 248-577-2243  
[Www.henkelna.com](http://Www.henkelna.com)

### COATINGS

#### **AkzoNobel Packaging Coatings** *(conference sponsor)*

16651 Sprague Road  
Strongsville, OH 44136 USA  
Tel: +1 440-297-5589  
[www.akzonobel.com](http://www.akzonobel.com)

#### **PPG Industries** *(conference sponsor)*

500 TechneCenter Drive  
Milford, OH 45150  
Tel: +1 513-576-3100  
[www.packagingcoatings.com](http://www.packagingcoatings.com)

#### **Sidas Coatings, LLC**

909-K Canterbury Road  
Westlake, OH 44145 USA  
Tel: 440-871-4164  
[peacock@sidasacoatings.com](mailto:peacock@sidasacoatings.com)  
[www.sidasacoatings.com](http://www.sidasacoatings.com)

#### **Valspar Corporation** *(conference sponsor)*

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[packaging@valspar.com](mailto:packaging@valspar.com)

#### **Watson Standard** *(conference sponsor)*

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[www.watsonstandard.com](http://www.watsonstandard.com)



## COATING APPLICATION SYSTEMS

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## COATING, PRESS & TWO PIECE ROLLERS

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www.finzerroller.com

### **Urethane Roller Specialists**

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Eureka, MO 63025 USA  
Tel: 800-367-1136  
www.urethanageroller.com

### **Rollercoat Industries** *(conference sponsor)*

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

## CONSULTANTS

**Beckon Worldwide**, see Bodymaker spare parts

## DAMPENING SYSTEMS

### **Epic Products International**

2801 E. Randol Mill Road  
Arlington, TX 76011 USA  
www.epicproducts.com

## FLAT SHEET PRESSES

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Japan  
+81-82-428-2455  
Wwww.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**

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www.crabpress.co.uk

## INDUCTION HEATING

### **Ajax Tocco Magnethermic** *(conference sponsor)*

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Warren, OH 44483 USA  
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asmetana@ajaxtocco.com  
www.ajaxtocco.com

## INKS

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Colorado Springs, CO 80907 USA  
Tel: +1 719-592-1557  
www.ctiinks.com

### **INX International Ink Co** *(conference sponsor)*

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

### **Sun Chemical** *(conference sponsor)*

135 W. Lake Street  
Northlake, IL 60164  
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naimarketing@sunchemical.com  
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## LUBRICANTS & CLEANERS

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canorders@chemtool.com  
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### **JAX Inc** *(conference sponsor)*

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bmc@buntingmagnetics.com

*(continued)*

**T.D. Wright Inc. (conference sponsor)**

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St. Paul, MN 55102 USA  
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www.magneticcylinders.com

**MAINTENANCE**

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Bohemia, NY 11716 USA  
Tel: +1 631-419-1203  
purchasing@amro-supply.com  
www.amro-supply.com

**METAL SHEET DETECTORS**

**Prime Controls**

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Tel: +1 937-435-8659  
www.primecontrols.com

**OVENS**

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Warren, OH 44483  
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asmetana@ajaxtocco.com

**Arc Pacific Limited**

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Tel: 262-367-5096  
sales@arcpacific.com  
www.arcpacific.com

**OVEN CLEANING**

**Ace Cleaning Experts**

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Clinton, OH 44216 USA  
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Cell: 330-283-9464  
chuck@acecleaningexperts.com  
acecleaningexperts.com

**OVEN PARTS & SERVICES**

**Environmental Services & Technologies (sponsor)**

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Moline, IL 61265  
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jrobinson@envsrv.com  
www.envsrv.com

**Perm Machine & Tool Co (conference sponsor)**

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www.permmachine.com

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pzeinert@andvre.com  
www.andersonvreeland.com

**Carey Color, Inc (Chicago Div.)**

1160 Pierson Drive Suite 102  
Batavia, IL 60510  
Tel: 630-858-6901  
bbeaver@careyweb.com

**Meridian Arts & Graphics**

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twebb@meridianarts.com

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Louisville, KY 40202 USA  
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www.vngraphics.com

**Youngstown Pre-Press Inc (quality sponsor)**

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330-793-3690  
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**PRESS/COATER CYLINDER REPAIR/REPLACEMENT**

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**Brodie Systems (conference sponsor)**

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Tel: +1 908-862-8620  
jfarrell@brodiesystem.com  
www.brodiesystem.com

**QUALITY TESTING & VISUAL INSPECTION EQUIPMENT**

**Acu-Gage Systems**

12 Park Avenue  
Hudson, NH 03051  
Tel: 603-622-2481  
info@acu-gage.com  
www.acu-gage.com

**QUALITY TESTING & CONTROL EQUIPMENT** *continued*

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www.measurecolor.com

**Applied Vision Corporation** (*conference sponsor*)

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sales@appliedvision.com  
www.appliedvision.com

**CMC-KUHNKE, Inc.**

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Albany, NY 12204 USA  
Tel: +1 518-694-3310  
www.cmc-kuhnke.c

**ISRA Vision**

4470 Peachtree Lakes Drive  
Duluth, GA 30096 USA  
Tel: +1 770-449-7776  
www.isravision.com

**Intelligence Sensing, Inc**

46828 Butternut Road  
Oberlin, OH 44074 USA  
Tel: +1 440-774-4411  
www.intelsen.com

**Pressco Technology, Inc**

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**Sencon** (*conference sponsor*)

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**Sensory Analytics** (*conference sponsor*)

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Greensboro, NC 27407 USA  
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**REPAIR (SPARE) PARTS**

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**Cleveland Folder Service**

4330 Lee Ave  
Gurnee, IL 60031 USA  
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sales@clevelandfolder.com  
www.clevelandfolder.com

**TWO PIECE DECORATOR MACHINERY**

**Belvac Production Machinery**

237 Graves Mills Road  
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www.belvac.com

**Intercan Group Ltd** (*conference sponsor*)

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Tel: +44 (0) 1908 270041  
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**UV EQUIPMENT**

**American Ultraviolet Co / Aetek UV Systems**

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www.americanultraviolet.com

**GEW, Inc.**

Unit X, 11941 Abbey Road  
North Royalton, OH 44133 USA  
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www.gewuv.com

**Heraeus Noblelight Fusion UV**(*conference sponsor*)

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Gaithersburg, MD 20878  
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www.heraeus.com.

**Miltec UV** (*conference sponsor*)

146 Log Canoe Circle  
Stevensville, MD 21666  
Tel: 410-604-2900  
sales@miltec.com  
www.miltec.com

# A POINT IN TIME - METAL DECORATING HISTORY



Billboard, 1972 Adolph Coors Board of Directors in 1954. Standing L-R, Bill Coors, Joe Coors and Adolph Coors III. Sitting L-R, Grover Coors, Herman Coors and Adolph Coors, Jr.



Above from 1973. Cost per gallon range \$1.00 to \$6.00 .05¢ to \$2.00 per Base Box Gage below from 1953



**Wednesday, October 20th**

GENERAL SESSION.....9:30 a.m.-12:30 p.m.

ROUND TABLE DISCUSSION

JAMES L. BURNS, *Moderator*  
WALTER SPIES, *Coaters & Ovens*  
DAN GALLAGHER, *Inks*  
EDWARD HASKELL, *Coating & Finishes*  
THOMAS W. FORD, JR., *Rollers*  
EMANUEL CURIN, *Blankets*  
FRED ADAME, *Presses*  
RALPH F. MERTZ, *Feeders*  
WARREN G. TYK, *Design*  
*Viking Room*

LUNCHEON .....12:30 p.m.  
*Vernon Room*

GENERAL SESSION.....2:00 p.m.

EARL K. SHAWE, *"Labor Relations"*  
A. F. RYLANDER, *"Polymers, Present & Future for Use by Metal Decorators"*  
GEORGES C. MARTIGNOLE, *"Metal Decorating in France"*  
*Viking Room*

RECEPTION .....6:30 p.m.  
*Solarium & Garden Room*

BANQUET .....8:00 p.m.  
*Vernon Room*

Speaker.....Dr. Dean F. Berkley

1965 Annual Convention  
Atlantic City, New Jersey



Tandem Potter Litho Press, 1941