



Dear friends of SPE Color and Appearance Division,

It is hard to believe but September is almost here, school is back in session for many children. All of the volunteers on the CAD Board are hard at work striving to educate, train, inform and provide professional interaction opportunities to the global world involved in the coloring of plastics.

I would like to recognize and thank a few of those hard-working volunteers: First, Brenda Mullins for her leadership of the Color and Appearance Division this past year. During Brenda's term CAD received the Pinnacle Gold Award and Communications Excellence Awards again. These accomplishments reflect both Brenda's leadership and the hard work of the members of your Board of Directors.

Another member hard at work is Bruce Mullholland and his team, they are organizing the 2017 RETEC®, which will be Celebrating our 55th Conference. This year the location is Milwaukee, with the theme "What's Brewing with Color". Located at the Hilton City Center. The program looks to be very exciting with the Monday afternoon technical session is devoted to LED Illumination, bringing together color control suppliers, lighting suppliers and instrument manufactures, plus experiences from the retail environment. The conference has registered a record number of exhibitors making RETEC® 2017 even a more compelling reason for people to attend. Whether you come to research new technology, evaluate vendors before purchasing, find solutions, or connect with the leaders in the Coloring of Plastics industry, there is simply no substitute for attending RETEC®.

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Our most recent board meeting was held in early August. We met in Orlando Florida a site for a possible future RETEC® were we welcomed our newest members to the board, Daniel Hunter, Mercedes Landazuri, and Matthew Billiter, will serve a three-year term and add their skill, knowledge and time to enrich our organization. If you would like to attend a meeting, please contact anyone of the board members.

The success of our conferences allows us to support education, by awarding many scholarships. This year we have collected a record number of applicants and I am very pleased to report that we awarded scholarships totaling \$35,250.00. Helping students achieve their professional goals is just one of the many ways CAD provides to help with education and inspiring students. We are always looking for additional opportunities to work with colleges or universities interested in developing courses for color as part of a plastics or polymer program.

As we continue to grow, please know that partnerships with our sponsors are vital to the success of our conferences and the goals of this organization. Please take the time to recognize the sponsors listed in this newsletter. I look forward to speaking with many of you soon.

See you in Milwaukee!

*Cheryl Treat*  
Chairman





## SPE CAD RETEC® Coloring of Plastics Tutorial

The Color and Appearance Division of SPE has been presenting the “Coloring of Plastics” tutorial at the start of the CAD RETEC® conference for many years. Many SPE members and non-members have benefited from this program. The tutorial is a great starting point for those just beginning a career, or an excellent continuing improvement opportunity to those who wish to add to their base knowledge of coloring of plastics. The course is full of practical information which is embellished and enlightened by the active participation of all the attendees.

The tutorial runs a full day on Sunday prior to CAD RETEC® and does require a separate registration and fee. The attendance is limited to 20 persons, so register soon. Attendees receive a full-color manual to use as a reference when they return home.

### *Who might benefit from attending the tutorial?*

- ◆ Executives needing to better understand their company’s coloring issues
- ◆ Managers newly appointed and/or desiring to communicate more effectively with peers and subordinates
- ◆ Color formulators/matchers to better understand the theory behind their work
- ◆ Color specifiers/approvers to understand limitations in coloring of plastics
- ◆ Sales personnel hoping to gain more technical knowledge to better serve their customers
- ◆ Product designers wishing to better understand the technology behind the coloring of plastics, to make better and more informed decisions
- ◆ Color manufacturing personnel to understand the impact of compounding on color
- ◆ Color processors (injection molding, extrusion, etc) to better understand the technology ways they can impact the final color

**Attendees will leave the course with a better understanding of color technology and should be more effective in their careers around color.**

**For more information about Color of Plastics Tutorial, please contact the Conference Chair and Tutorial Instructor Bruce Mulholland @ [bruce.mulholland@celanese.com](mailto:bruce.mulholland@celanese.com) or call 859-525-4765**

**To register for this opportunity please visit the SPECAD Website**

# CAD RETEC® 2017

HILTON MILWAUKEE CITY CENTER  
Milwaukee, Wisconsin  
September 17-19, 2017

## Pre-registration online

Go to [www.specad.org](http://www.specad.org)

Pre-registration closes September 15, 2017 at 5:00pm

**\$100 discounted for registration before September 2, 2017**

The hotel block was closed on August 25<sup>th</sup> but the hotel still has rooms available.

## Onsite Registration

Sunday 17 September 1:00 pm-6:00 pm

Monday 18 September 8:00 am-5:00 pm

Tuesday 19 September 8:00 am-3:00 pm

## Preconference Tutorial **Coloring of Plastics**

*Presented by Bruce Mulholland, Celenese, SPE Fellow*

**Sunday 17 September 2017**

8:30 AM – 4:30 PM

Fee: \$490 (Must Pre-register for event. Extra fee not included with CAD RETEC® 2017 registration)



## CAD RETEC® 2017 Golf Outing

**Sunday 17 September 2017**

Registration 8:00 AM – 9:15 AM

The Bog, an Arnold Palmer Signature Course

Price: \$ 105 per golfer

Includes: warm ups on the range, green fees, cart fee, lunch, Awards (hole prizes), scramble format

For more details, visit the [www.specad.org](http://www.specad.org)

## Welcome Reception

**Sunday 17 September 2017**

Dessert Reception 8:00 pm – 11:00 pm

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What's brewing  
with Color?



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\$20 Registration fee

All proceeds go to Habitat for Humanity

SPE CAD will match every \$20 donation

# TECHNICAL PROGRAM

## Monday 18 September 2017

| Time                 | Category         | Speaker/Company, Sponsor            | Title  |
|----------------------|------------------|-------------------------------------|--|
| <b>7:00-8:00 AM</b>  | <b>Breakfast</b> | <b>LANSCO and Shepherd Color</b>    |  |
| <b>8:15</b>          | Opening Remarks  | Bruce Mulholland, <i>Celanese</i>   | Welcome to CAD RETEC® 2017 in Milwaukee, WI  |
| <b>8:30</b>          | Paper            | Emilie Meddah, <i>Clariant</i>      | Polymer Stabilizers: What goes into the “Brew” that can Significantly Improve Plastics Parts Quality!  |
| <b>9:00</b>          | Paper            | Robert Sherman, <i>Baerlocher</i>   | Utility of Metal Soaps in Color Concentrates   |
| <b>9:30</b>          | <b>Break</b>     | <b>Clariant</b>                     |  |
| <b>10:00</b>         | Keynote          | Steven Camenisch, <i>BASF</i>       | Global Regulatory and Stewardship Trends   |
| <b>10:30</b>         | Illumination     | Arno Boehm, <i>ColorFlex</i>        | Functional Plastics in LED Lighting – State of the Art Polymeric Diffusers and Remote Color Converters for Improved Performance and Energy Efficiency in Custom LED Lighting |
| <b>11:00 AM</b>      | Illumination     | Ellen Carter, <i>Konica Minolta</i> | What’s New in Division 1   |
| <b>11:30-1:00 PM</b> | <b>Lunch</b>     |                                     | <b>11:30-1:00 Open Lunch</b>   |
| <b>1:00-2:00</b>     | Illumination     | Nick Lena, <i>GTI</i>               | Lighting, Metrics, Methods, Measurements, Myths and Magic  |
| <b>2:00</b>          | Illumination     | Dave Wyble, <i>Thouslights</i>      | LED Illumination: Benefits of the Technology, and the Pitfalls It Helps Avoid  |
| <b>2:30</b>          | <b>Break</b>     | <b>Sun Chemical</b>                 |  |
| <b>3:15-4:00</b>     | Illumination     | Danny Rich, <i>Sun Chemical</i>     | The Impact of Modern Lighting on the Colors in Plastic Design  |
| <b>4:00</b>          | Illumination     | Keith Hoover, <i>Under Armour</i>   | The Proliferation of an Infinite Number of “LED” Configurations in Retail Space and the Impact on Product Appearance (and how to manage it)?                                 |
| <b>4:30</b>          | Illumination     | Sandra Davis                        | Panel Discussion: Carter, Lena, Boehm, Rich, Wyble, Hoover   |
| <b>5:00</b>          | NTF              |                                     | New Technology Forum   |
| <b>6:00</b>          | <b>Reception</b> | <b>Chemours</b>                     | <b>Networking Reception, Exhibit Area</b>  |

### Annual SPE CAD Survey Raffle

We are looking for gifts to use for the SPE CAD Survey Raffle that will be given away at the end of the conference proceedings. If you have a prize of \$25 or more and want to supply for the raffle, please contact:

[Cheryl Treat](#) or +1 313-570-3911

[Scott Aumann](#) or +1 912-210-0175

**TECHNICAL PROGRAM**  
**Tuesday 19 September 2017**

| Time          | Category               | Speaker/Company                             | Title  |
|---------------|------------------------|---|--|
| 8:30 AM       | Paper                  | Charlie Martin, <i>Leistritz</i>            | New Developments in Small Scale Twin Screw Extruders for Color Development   |
| 9:00          | Paper                  | Walt Folkl, <i>Brabender</i>                | Feeder Selection for the Color Concentrate Process<br>Utility of Metal Soaps in Color Concentrates   |
| 9:30          | <b>Break</b>           | <b>Kronos</b>                               |  |
| 10:00         | Paper                  | Justyn Pyz, <i>Coperion</i>                 | Processing of Carbon Black Masterbatches on a Twin Screw Extruder  |
| 10:30         | Paper                  | Ed Ford, <i>Steer America</i>               | Effects On Extruder Wear For The Manufacturing Of Color Masterbatch  |
| 11:00         | Paper                  | Mark Ryan, <i>Shepherd Color</i>            | Color Space and Performance of Pigment Brown 48 Iron Titanate Pigments   |
| 11:30-1:00 PM | <b>Luncheon</b>        | <b>Tronox</b>                               | <b>Awards Luncheon</b>   |
| 1:00          | Paper                  | Joseph Bidwell, <i>Chemours</i>             | Effects of Tinting Strength and Undertone: TiO <sub>2</sub> Color Matching Applications  |
| 1:30          | Paper                  | Cristina Zanzottera, <i>Dominion Colour</i> | Extending the boundaries - Bismuth Vanadate pigments for the plastics industry   |
| 2:00          | Paper                  | Jim Rediske, <i>BASF</i>                    | A Method to Evaluate the Near and Far Aspecular Reflectance Differences of Organic Pigments And Possible Causes  |
| 2:30          | <b>Break</b>           | <b>SPE CAD</b>                              |  |
| 3:00          | Paper                  | Michael Willis, <i>Sun Chemical</i>         | Pigment Crystallinity and Molecular Structure of Some Selected Classical and High Performance Pigments and their Performance in Thermoplastic Applications |
| 3:30 PM       | Paper                  | Paul Glas, <i>Milliken</i>                  | Effects of Gamma Irradiation on Colorants in PET and Co-polyester  |
| 4:00 PM       | Paper                  | Francis Rodrigues, <i>Plastiblends</i>      | Hacking Masterbatches  |
| 4:30 PM       | <b>Closing Remarks</b> | Bruce Mulholland, <i>Celanese</i>           |  |
| 5:00 PM       | <b>Raffle</b>          |   | <b>Raffle prizes to be determined</b>  |

# Thank you CAD RETEC® 2017 Sponsors!

Registration fees for attendees are kept low in part by the generous donations of corporate and individual sponsors.

We'd like to say a special thanks to these generous sponsors and recognize their support of the conference.

Watch for sponsorship signs during the conference to see which event each of the companies below sponsored.

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**SOCIETY OF PLASTICS ENGINEERS**  
**2017 CAD RETEC® GOLF OUTING GOLF OUTING**  
**Sunday, September 17, 2017**

**The Bog**  
**An Arnold Palmer Signature Course**

**Questions Contact:**

**Mark Tyler** (859) 372.3221 or  
**Mark Freshwater** (201) 665.0091  
**Alex Prosapio** (845) 608-5589

**COURSE LOCATION:**

3121 County Road 1  
 Saukville, WI 53080  
 Phone: (800) 484-3264

**Schedule (CST)**

Registration: 8:00am to 9:15

**9:30 am Shotgun Start**

**Price:** \$105.00 per golfer

Includes: Warm ups on the Range, Lunch, Green Fees, Awards (hole prizes) Cart Fee Cart, Scramble Format

**Rental Clubs are available at the course.**  
 Please let us know ASAP so we can reserve, or reserve yourself: Nike Set \$45 / Titleist \$65

If anyone is interested in playing Saturday before the Outing, Please let us know and we will see what we can do.

The Bog is an Arnold Palmer Signature Design golf course founded in 1995. The course layout is constructed on nature's Cedarburg Bog flowing through terrain of 297 acres of woods, wetlands, rolling hills, and wildlife habitat. The Bog features 118 bunkers throughout the course and bent grass greens- built to USGA specifications, which will rival any putting surfaces in Wisconsin.



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- BASF Corporation
- Brabender Technologies
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# Shaping the future

## **CLARIANT PARTNERS WITH LINTECH**

Clariant is expanding its partnership with Lintech International LLC in the United States. Lintech is now the sole distributor for its pigments for the plastics and rubber industry.

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**September 17-19**  
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## Connect With SPE CAD Via Social Media

Join SPECAD's Group On Linked In to network with industry peers, participate in group discussions of industry and technical topics, find job opportunities, and get the latest division and conference announcements.

Group Name: SPE Color & Appearance Division  
Group ID 152108  
[www.linkedin.com/groups?gid=152108](http://www.linkedin.com/groups?gid=152108)



### Board Minutes

The CAD Division posts the board minutes as soon as approved and they are accessible on our website.

[Click here](#) to review our board minutes.



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[WWW.TOMATEC.COM](http://WWW.TOMATEC.COM)

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## Color & Appearance Division CALL FOR PAPERS

### ANTEC 2018

Conference Dates: **May 7 – 10, 2018**

Co-Located with National Plastics Exposition (NPE)  
Orlando, Florida, USA

ANTEC® is the world's largest plastics technical conference. Paper deadlines have not been established as of this publication. Check SPECAD website for more information

The Color & Appearance Division will be holding our annual technical sessions during this conference and would like to encourage you and your company to participate by presenting a paper. We would consider any paper related to the color and/or appearance of plastic and the following categories would be typical topics:

|  |   |
|--|---|
| Color Trends                                 | Materials (Colorants, Additives, Plastics)      |
| Decorative or Special Effects                | Property Retention/Durability                   |
| Color Measurement                            | Troubleshooting or Innovation in the color area |
| Color Matching Techniques                    | Regulatory Issues                               |
| Instrumentation/Test Methods/Quality Control | Processing and Equipment                        |
| Stabilization of color                       | Other Color/Appearance Related Topics           |

Plastics industry professionals who submit papers at ANTEC® 2018 have a choice between two tracks: technical or commercial. The technical track includes more traditional ANTEC® papers, which address new technologies and techniques currently in development in the plastics industry. The commercial track is for papers that speak to commercial applications of these technologies and techniques, and can be similar to a case study.

For more information visit the site or contact [Doreen Becker](#) by email or 914-769-4532 by phone. You can also contact [Ann Smeltzer](#) by email or 412-298-4373 by phone.

ANTEC® 2018 CAD Technical Program Chairs





## Invitation to Attend Our Board Meetings

The Color and Appearance Division regularly holds Board of Director (BOD) meetings at the ANTEC® and the CAD RETEC®. In addition, a Summer BOD meeting is typically held about 6 weeks prior to the next CAD RETEC®.

The Summer meeting is scheduled in various locations. A Winter BOD meeting is held in January. The Winter meeting is typically held at a site of a future CAD RETEC®.

Any SPE CAD members who wish to attend are welcome at these meetings. If interested in attending the next Board meeting, please contact the Division Chairperson for more information.

### About 2017 CAD NEWS® Sponsorships

***Deadline for the 2018 newsletter period is the end of December 2017.***

Mark Tyler, the CAD Newsletter Editor, publishes at least (3) issues of the CAD Newsletter per calendar year. This publication is e-mailed to approximately 700 Plastic Color Industry professionals and is also posted on our website at <http://www.specad.org/> and also the Parent [SPE website](#) on the Divisional pages

In addition, the newsletter is posted on the Society of Plastics Engineers website technical area. Three (3) issues appear in electronic form annually and each sponsor placement is automatically linked directly to your website when the viewer clicks on your ad, provided you supply us with your website address. Participating in a sponsorship in the CADNEWS® is a great way to connect with plastic coloring industry professionals by promoting your company and the services you offer.

| OPTIONS   | HEIGHT X WIDTH |
|-----------|----------------|
| 1-unit    | 2 x 3.5        |
| 2-unit    | 4 x 5          |
| 3-unit    | 6 x 3.5        |
| 4-unit    | 4 x 7.5        |
| 1/2-page  | 5 x 7.5        |
| Full page | 8.5 x 11       |

If interested in learning more, please contact:

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*Note: remove xxx after ampersand in email addresses before emailing – added here to prevent bots from capturing email.*

## CAD DIRECTORS

### DIRECTORS until 2018

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