



COLOR &  
APPEARANCE

# CAD NEWS<sup>®</sup>

FALL 2022 NEWSLETTER

## CAD RETEC 2022

*Technical Program & Events  
Technology Forum Details  
Panels & Exhibitors*





# FALL 2022 CHAIRMAN'S MESSAGE

Hello Color and Appearance Division (CAD) and visitors reading this 2022 FALL CADNEWS® edition.

I am pleased to be the 2022-2023 CAD Chairperson and find it a great honor to follow in the footsteps of many great people who have dedicated their time and talent to this unique industry association. Many people still contribute whether on the CAD board or by presenting keynote and technical presentations. I congratulate Mark Tyler on a successful 2021-2022 term as Chairperson and I look forward to the 60th annual RETEC® 2022 conference, our Diamond year. I hope you can join us in Orlando!

For an informative read to those not familiar with the CAD board I want to highlight a few key areas that make the CAD division a success. The CAD board supports educational programs including professional net-working and information related to sustainability and environmental responsibility for our industry. This all starts with the collective efforts of the CAD board members.

The CAD board is comprised of 33 members from various companies and backgrounds. There are eleven specific committees that work in areas of Education, Endowment, Communications, Color Advisory, Sponsorship, Technical Programs, and Strategic Planning to name a few. Countless hours are dedicated by each committee to reach specific goals. Last year the Endowment committee awarded \$40,000 in scholarships to college students pursuing studies beneficial to a career in this industry. The CAD board also donated \$35,000 to the SPE Plastivan for educational programs for grade school and high school students. The CAD board also participated in the SPE Weeks of Learning series that was free to all SPE members.

The CAD board continues to work closely with SPE on an ongoing basis through our Councilor representative Mercedes Landazuri and our Treasurer Bruce Mulholland who is also the current SPE President-Elect. The CAD board commitment is top-notch to say the least. The ability to continue this work is made possible by the support of many companies, sponsors, volunteers, and people attending the RETEC® conference, our flag-ship event.

In a letter to Robert Hooke in 1675, Isaac Newton made his most famous statement: "If I have seen further it is by standing on the shoulders of Giants". As I opened this commentary, it is a true honor to be the CAD Board Chairperson for 2022-2023, perched on the shoulders of giants. Thank You!

## MICHAEL WILLIS

Color and Appearance Division Chair  
michael.willis@sunchemical.com

## SPONSORS

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■ Lintech International	05
■ M Holland	17
■ Milliken	04
■ Mixaco	15
■ Paramount	20
■ Royce Global	17
■ Silberline	20
■ Spectra	19
■ SunChemical	19
■ The Shepherd Color Company	18
■ Tomatec	20
■ Tronx	20
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## CONTRIBUTORS

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Michael Willis

Doreen Becker

Mark Tyler

Milliken presents

# Milliken: The Color Experts

Milliken & Company understands the power and value of color as it relates to branding. Humans are visual creatures, and color plays a key role in purchasing decisions, as it helps to inform, personalize and speak the brand language.

The company continues to tap into its vast experience in this space to develop solutions for a wide variety of end markets and end-use applications.

Milliken's color journey began in 1964, when it launched its proprietary Versatint® washable colorants for textile identification. In 1981, it introduced its Reactint® range of colorants for polyurethane (PU). Five years later, Milliken unveiled its ClearTint™ polymeric colorants for use in NX® UltraClear™ polypropylene (PP), which can be made only with its Millad® NX® 8000 clarifier.

The year 2019 marked a major step forward, with the introduction of both its KeyPlast® products, as well as its KeyPlast RESIST™ high-performance colorants for plastics.

Milliken technology helps to color a vast range of sectors, including agriculture and turf; automotive and transportation; building and construction; coatings, paints and inks; home and laundry care; and plastics.

Milliken's KeyPlast RESIST colorants address another key challenge — coloring high-performance engineering polymers with bright and vibrant hues. These colorant are used in the high demanding applications such as high voltage connectors, control systems, structural parts and metal replacement.

Using KeyPlast RESIST colorants compounders and resin producers, offer a vast spectrum of stable and reproducible colors suitable for use with a wide range of resins such as Polyamides, PPA's, Poly Sulphones and other high heat polymer blends and alloys.

Additionally, Milliken continues to keep its finger on the pulse of end-user and market trends, which it documents each year in its ColorDirection report that forecasts the key shades and hues for the coming year. In doing so, it offers a palette of carefully curated colors, while providing the stories behind the inspiration and motivation driving their popularity. Brand owners can leverage this expert information to help capture the mood of consumers through effective branding and personalization.



Milliken's diverse portfolio of colorants can enable product makers to realize their aims to deliver on those colors that will help drive and shape consumer preferences in the coming year.

From the R&D lab to the production floor, Milliken's Chemical Division stands ready to help customers leverage color to design new products, reinvigorate existing products, and create opportunities to grow in new markets and applications.



For more details and information please contact us or visit us online at [chemical.milliken.com](http://chemical.milliken.com)

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## CAD RETEC® 2022 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.

### Platinum Sponsors



### Gold Sponsors



### Silver Sponsors





# CAD RETEC® 2022

Technical Program  
**Tuesday, September 13, 2022**  
*Oceans 9-11*

<b>Moderator</b>	TJ Stubbs	<i>Teknor Color</i>
8:45 AM	<b>Opening Remarks</b>	Mark Tyler, <i>Silberline</i>
9:00 AM	<b>Colorants and the Challenges of the Circular Economy</b>	Mark Self, <i>Heubach</i>
9:30 AM	<b>Properties of IR Black Plastics Optimized for Recycling</b>	Mark Ryan, <i>Shepherd</i>
10:00 AM	<b>Mitigating Discoloration in Mechanically-Recycled Plastics</b>	Tad Finnegan, <i>BASF</i>
10:30 AM	<b>Break (Oceans 1-6)</b>	Sponsored by Heubach
11:00 AM	<b>Panel Discussion: The Sustainability of Plastics</b> Joe Machado, Senior Advisor, Alliance to End Plastic Waste Kari Bliss, Director of Sustainability, PADNOS Mercedes Landazuri, Director Tech/Innov, Peacock Colors	Moderator: Doreen Becker, <i>Ampacet</i>
12:00 PM	<b>Lunch on your own</b>	
<b>Moderator</b>	Jim Figaniak	<i>Americhem</i>
1:30 PM	<b>The AGERA® Fluorimeter – A New Generation in Color Appearance Measurement</b>	Jack Ladson, <i>Color Science Consultancy</i>
2:00 PM	<b>Advanced Mechanical Recycling and Pigment-Polymer Compatibilization using 1.5 nanometer Titanates and Zirconates</b>	Salvatore Monte, <i>Kenrich Petrochemical</i>
2:30 PM	<b>Break (Oceans 1-6)</b>	Sponsored by EMD Electronics
3:00 PM	<b>Future Coloration Needs for Autonomous Vehicles</b>	Breeze Briggs, <i>Sun Chemical</i>
3:30 PM	<b>The Future of Tag / Trace and Product Loading Identification</b>	Scott Aumann, <i>Elucedá</i>
4:00 PM	<b>MAH-grafted Polymeric Waxes for Improved Dispersion of Special Effects Pigments, and Accompanying Improvements to the Production and Physical Integrity of Finished Articles</b>	Frank Neuber, <i>Clariant</i>
4:35 PM	<b>New Technology Forum (see separate schedule)</b>	Scott Heitzman - Moderator
5:45 PM	<b>Networking Reception (Oceans 1-6)</b>	Sponsored by Shepherd



# CAD RETEC® 2022

Technical Program  
**Wednesday, September 14, 2022**  
*Oceans 9-11*

<b>Moderator</b>	Tony Tanner	<i>Chroma Colors</i>
8:50 AM	<b>Welcome Day 2</b>	Mark Tyler, <i>Silberline</i>
9:00 AM	<b>Keynote: SPE Plastivan®</b>	Eve Vitale, <i>SPE</i>
9:30 AM	<b>It seemed like a good idea at the time: How Color really works</b>	John Seymour, <i>John The Math Guy</i>
10:00 AM	<b>Beyond CIEL*a*b*; Other Helpful Values for the Color Matcher</b>	Brian Coleman, <i>Celanese</i>
10:30 AM	<b>Break (Oceans 1-6)</b>	Sponsored by Vivify
11:00 AM	<b>Verification of Color Difference Equations – Part II</b>	Bruce Mulholland, <i>Celanese (retired)</i>
11:30 AM	<b>Titanium Dioxide: What is it? How is it used</b>	Jeff Drusda, <i>Chemours</i>
12:00 PM	<b>Awards Lunch (Oceans 7-8)</b>	Sponsored by Tronox
<b>Moderator</b>	Betty Puckerin	<i>Ampacet</i>
1:30 PM	<b>Impact of Pigment Finishing on Plastic Application Performance</b>	Bonnie Piro, <i>Sudarshan</i>
2:00 PM	<b>Evaluating Plastics Intermediates with Ambiguous Toxicological Profiles</b>	Eric Andrews, <i>Colour Synthesis Solutions LLC</i>
2:30 PM	<b>Ultraviolet-C (UVC) Exposure and Its Effects on Color Change for Polystyrene</b>	Kristen Chang, <i>Atlas Material Testing Tech</i>
3:00 PM	<b>Break (Oceans 1-6)</b>	Sponsored by Trust Chem
3:30 PM	<b>Preliminary Investigation of Air Pressure Effects on UV Weathering Color Change Rates</b>	Henry Hardcastle, <i>Atlas Material Testing Tech</i>
4:00 PM	<b>Sensing of Chemical and Biological Emerging Threats Using Unconventional Detection Modalities</b>	Jennifer R. Soliz, Ph.D, <i>U.S. Army DEVCOM</i>
4:30 PM	<b>Closing Remarks &amp; Raffle (must be present to win!)</b>	Mark Tyler, <i>Silberline</i>
5:00 PM	<b>Conference Ends</b>	

## New Technology Forum: Oceans 9-11

*Tuesday, Sep 13<sup>th</sup>*

Don't miss the chance to hear about new offerings from these exhibitors  
See schedule below. Moderator: Scott Heitzman, DCL Corporation

4:40	The Shepherd Color Company	5:15	Barentz
4:45	Chroma Specialty Chemicals	5:20	Heubach Group
4:50	DCL	5:25	Tronox
4:55	Milliken & Company	5:30	Paramount Colors Inc
5:00	Sun Chemical	5:35	Mayzo
5:05	Birla Carbon	5:40	EMD Electronics
5:10	Vibrantz Technologies	5:45	Sudarshan

2022 CAD RETEC® Committee		
Chairperson	Mark Tyler	<i>Silberline</i>
Vice-chairperson	Alex Prosapio	<i>Sudarshan</i>
Technical Program Co-Chair	Breeze Briggs	<i>Sun Chemical</i>
Technical Program Co-Chair	Andrew Smith	<i>A Ernest Consultech</i>
Exhibitors	Brian West Kimberly Williamson	<i>West Color Technologies</i> <i>Techmer PM</i>
New Technology Forum	Scott Heitzman	<i>DCL</i>
Registration	Bruce Mulholland	<i>Celanese (retired)</i>
Sponsorship	Cheryl Treat Scott Aumann	<i>Sun Chemical</i> <i>Eluceda</i>
Technical Content Review	Mark Ryan	<i>The Shepherd Color Company</i>
Printing/Publicity	Betty Puckerin George Iannuzzi Mercedes Landazuri	<i>Ampacet</i> <i>Roha USA</i> <i>Peacock Colors/Vortex Liquid Color</i>
Website	Jeff Drusda	<i>The Chemours Company</i>
Fun Run/Walk	Bruce Howie	<i>DCL</i>
Golf Outing	Mark Freshwater	<i>DCL</i>
Raffle	Chuck DePew	<i>Holland Colours</i>



## The Sustainability of Plastics

**Panel Discussion: Tuesday at 11:00 am**

This panel will discuss the sustainability of colorants used in plastics and their ability to be reused, recycled or reduced to enhance their sustainability. Questions pertaining to recyclability, definitions of sustainable colors and plastics, as well as guidance for attendees to learn more about sustainability and the value of participating in sustainable organizations will be discussed.

**Panelists:** Joe Machado, Senior Advisor, Alliance to End Plastic Waste  
Kari Bliss, Director of Sustainability, PADNOS  
Mercedes Landazuri, Director of Technology/Innovation, Peacock Colors  
**Moderator:** Doreen Becker, Global Sustainability Director, Ampacet



## PlastiVan® at CAD RETEC®

**Tuesday, September 13<sup>th</sup>**

**Room: Oceans 12**

Join PlastiVan® on **Tuesday** as it brings *Positive Plastics Education* to local Orlando students at CAD RETEC®. Themes will include *Color our World through Polymer Science* and *Career Pathways*. See the world premiere of the classically campy *Science of Color* PlastiVideo sponsored by CAD.

Interested CAD RETEC® attendees who would like to see the PlastiVan® program in action are welcome to join our presentation in room *Oceans 12*. PlastiVan® schedule:

9:00a Students Arrive at the hotel  
9:15a Students view CAD RETEC® tabletops  
10:30a PlastiVan® program  
12:00p Lunch  
1:15p Career Panel/Talk

If you'd like to share a spot on our career panel to talk about jobs in the coloring of plastics industry, please reach out to Eve Vitale ([evitale@4spe.org](mailto:evitale@4spe.org)) or just stop by Oceans 12 at 1pm.

**Help us change the perception of plastics one classroom at a time!**

# 2022 CAD RETEC® Tabletop Exhibitors

Company	Company
<a href="#">3V Sigma USA</a>	<a href="#">Lintech International</a>
<a href="#">Azelis Americas CASE</a>	<a href="#">Mayzo</a>
<a href="#">Barentz</a>	<a href="#">Milliken &amp; Company</a>
<a href="#">Birla Carbon</a>	<a href="#">MIXACO USA</a>
<a href="#">Cathay Industries</a>	<a href="#">Monolith Materials</a>
<a href="#">Chroma Specialty Chemicals</a>	<a href="#">Omya, Inc.</a>
<a href="#">CINIC</a>	<a href="#">Paramount Colors</a>
<a href="#">Colour Synthesis Solutions</a>	<a href="#">ROHA USA</a>
<a href="#">COVIA</a>	<a href="#">Royce Global</a>
<a href="#">Datacolor</a>	<a href="#">Silberline</a>
<a href="#">DayGlo</a>	<a href="#">Sincol USA</a>
<a href="#">DCL</a>	<a href="#">Spectra Dyes</a>
<a href="#">Eckart America</a>	<a href="#">Sudarshan</a>
<a href="#">EMD Electronics</a>	<a href="#">Sun Chemical</a>
<a href="#">First Source Worldwide</a>	<a href="#">The Shepherd Color Company</a>
<a href="#">Flying Colors Technology</a>	<a href="#">TOMATEC America, Inc</a>
<a href="#">FP Pigments</a>	<a href="#">Torrecid USA LLC</a>
<a href="#">H. L. Blachford Ltd.</a>	<a href="#">Tronox</a>
<a href="#">Heubach Color</a>	<a href="#">Trustchem</a>
<a href="#">Indace, Inc.</a>	<a href="#">United Mineral &amp; Chemical Corp</a>
<a href="#">Keim-Additec USA LLC</a>	<a href="#">Van Horn Metz</a>
<a href="#">Kuncai Americas, LLC</a>	<a href="#">Vibrance Technologies</a>
<a href="#">LANXESS Corporation</a>	<a href="#">Vivify Company</a>
<a href="#">Leistritz Extrusion</a>	<a href="#">Yipin USA</a>
<a href="#">Liberty Specialty Chemicals</a>	<a href="#">Zochem</a>

# 2022 CAD RETEC® Events Summary

<p><b>WELCOME RECEPTION</b>  <b>Sponsored by: Milliken &amp; Company</b>  <b>Outdoor Poolside (weather permitting) or Oceans 7-8/Foyer</b>  <u>Monday, September 12<sup>th</sup></u>  <b>8:00pm – 10:30pm</b>                  Join us for cocktails, networking, light snacks and music by Color Eye Blind</p>  <p>Complimentary with Registration                  Use the <b>GREEN</b> drink tickets.</p>		<p><b>5K Fun Run/Walk</b>  <b>To benefit Habitat for Humanity</b>  <u>Wednesday, September 14<sup>th</sup></u>  <b>Hotel Lobby at 7:00am</b>                  Start your Tuesday morning off right. Join us bright and early for a fun run/walk through the city of Atlanta. You'll be back in time to catch the first paper.  <b>EVENT COORDINATOR: Bruce Howie</b>  <b>EVENT SPONSOR: DCL</b></p>  <p>Free T-Shirt for the first 40 runners</p> <div style="border: 1px solid green; padding: 5px; display: inline-block;"> <p><b>Cost: \$25</b>                      CAD will match your donation!</p> </div>	
<p><b>Exhibit Schedule</b>  <b>Oceans 1-6</b>  <u>Tuesday, Sep 13<sup>th</sup></u>  <b>10:30 am to 7:00 pm</b>                  Networking Reception  <u>Tuesday, Sep 13<sup>th</sup></u>  <b>5:45 pm to 7:00 pm</b>  <u>Wednesday, Sep 14<sup>th</sup></u>  <b>9:00 am to 3:30 pm</b>                  (closed during lunch)</p>		<p><b>Monday Breakfast</b>  <b>Sponsored by DCL</b>  <b>Oceans 7-8</b>  <u>Tuesday, September 13<sup>th</sup></u>  <b>7:00am – 9:00am</b>                  Complimentary with registration!</p>	<p><b>Networking Reception</b>  <b>Sponsored by Shepherd Color</b>  <b>Oceans 1-6</b>  <u>Tuesday, Sep 13<sup>th</sup></u>  <b>5:45 pm – 7:00 pm</b>                  Use the <b>GOLD</b> tickets for drinks. Complimentary with registration!</p>
<p><b>Phone Charging Station</b>  <b>Sponsored by: Torrecid USA</b></p>		<p><b>Awards Luncheon</b>  <b>Sponsored by Tronox LLC</b>  <b>Oceans 7-8</b>  <u>Wednesday, September 14<sup>th</sup></u>  <b>12:00pm – 1:30pm</b>                  Complimentary with registration!</p>	<p><b>CAD Survey Raffle:</b>  <b>Oceans 9-11</b>  <u>Wednesday, September 14<sup>th</sup></u>  <b>4:30 pm</b>                  Complete your Survey and drop it off at the Registration Desk for your chance to win. Grand Prize: Bose QuiteComfort Headphones plus many other great prizes!                  * Must be present to win *</p>
<p><b>Key Cards</b>  <b>Sponsored by: Sun Chemical</b></p>		<p><b>Conference Internet Access:</b>  <b>Sponsored by: Sudarshan</b>      <b>Password: sudarshan</b></p>	
<p><b>Get the SPE Event App</b></p>  <ol style="list-style-type: none"> <li>1. Click on Login</li> <li>2. Enter your e-mail address used to register for CAD RETEC®</li> <li>3. Check your e-mail for a Log In Now button that will automatically log you into the event app website</li> <li>4. Click on Enter Event to continue into the site</li> <li>5. To Refresh Data, at the bottom of the "More" screen, click on the refresh button (Android) or icon (iOS).</li> <li>6. The Last Updated... should show the latest date and time.</li> </ol>		<p><b>Hospitality Suites</b>                  While the SPE CAD does not sponsor hospitality suites, we realize the importance of these functions to the conference attendees. Check hotel monitors and signs for times and locations of other suites operating during CAD RETEC® 2022</p>	
<p><b>Paper Downloads: You will receive an e-mail from OmniPress for access</b></p>			



#### SPE Color and Appearance Division Mission Statement

The Color and Appearance Division of SPE strives to educate, train, inform and provide professional interaction opportunities to the global community involved in visual performance and aesthetics of plastics.

#### INVITATION TO ATTEND CAD BOARD MEETING

The Color and Appearance Division (CAD) holds 4 Board of Directors (BOD) meetings each year, either in person or virtually. Any CAD members in good standing with in SPE and has Color and Appearance as their selected division are welcomed to attend these meetings. If interested in attending these meetings, please contact the current CAD Chairperson or any BOD for more information.



## CAD RETEC® 2023

# CALL FOR PAPERS

**Hyatt Regency  
Columbus, Ohio  
September 18 – 20, 2023**

### Deadline for Abstracts is February 2023

Chairperson: Kimberly Williamson, Techmer PM  
kwilliamson@techmerpm.com

Vice-Chair: Steve Esker, Paramount Colors  
steve@paramountcolors.com

#### Technical Program:

Alex Prosapio, Sudarshan  
aprosapio@sudarshan.com

Karen Carlson, EMD Electronics  
karen.carlson@emdgroup.com

TJ Stubbs, Teknor Color  
tstubbs@teknorapex.com

Tony Tanner, Chroma Colors  
ttanner@chromacolors.com





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## Call for Candidates

Color & Appearance Division  
Board of Directors



### WE NEED YOUR HELP – CONTINUE THE EXCELLENCE!

- Interested candidates for the 2023 Board of Directors should contact Alex Prosapio or any Board Member, or indicate your interest on the questionnaire
- We will be soliciting candidates through the end of 2022
- Biographies due February 2023
- Elections will be conducted in Spring 2023
- If elected, term is 3 years (serve until 2026)
- There are 4 Board meetings per year to attend: Spring, Summer, CAD RETEC®, and Winter meetings
- Candidates must be members of SPE in good standing and members of the Color and Appearance Division





## Society of Plastics Engineers Color & Appearance Division Endowment Scholarship Program for the 2023 – 2024 School Year



The Endowment Scholarship Program offered by the Color & Appearance Division of the Society of Plastics Engineers awards multiple scholarships each year to students who have demonstrated or expressed an interest in the coloring of plastics industry. The students must be majoring in or taking courses that would be beneficial to a career in this industry. This would include, but is not limited to, plastics engineering, polymer science, coloring of plastics, chemistry, physics, chemical engineering, mechanical engineering, industrial design and industrial engineering. All applicants must be in good standing with their colleges. Financial need is considered for most scholarships.

Undergraduate and graduate scholarships range up to \$3,000 annually. Scholarships are awarded for one year only, but applicants may apply for a re-award for each year they are enrolled in school.

### Scholarship Eligibility

1. Applicants for these scholarships must be full-time undergraduate students in either a four-year college or a two-year technical program or enrolled in a graduate program.
2. All applicants must be graduates of public or private high schools.

### Scholarship Criteria

1. Applicants must have a demonstrated or expressed interest in the coloring of plastics industry.
2. Applicants must be majoring in or taking courses that would be beneficial to a career in the coloring of plastics industry.
3. An applicant must be in good academic standing with his or her school.
4. Preference is given to student members of SPE and also to students who have a parent(s) as a member of the Color & Appearance Division of the SPE.
4. Financial need of an applicant will be considered for most scholarships.

### Application Procedure

To be considered for a scholarship from the Color & Appearance Division Endowment Scholarship Program, applicants must complete an application and return it to the address specified on the application by **June 5, 2023**. All applications submitted must include:

1. A completed application form.
2. Three recommendation letters: two from a teacher or school official and one from an employer or non-relative.
3. A high school and/or college transcript for the last two years.
4. An essay by the student (500 words or less) telling why the applicant is applying for the scholarship, the applicant's qualifications, and the applicant's educational and career goals in the coloring of plastics industry.

For more information, visit [www.specad.org](http://www.specad.org) or contact Ann Smeltzer at (412) 298-4373 or e-mail at [ann.smeltzer@clariant.com](mailto:ann.smeltzer@clariant.com)

All scholarships will be paid directly to the recipients' schools. The Color & Appearance Division Endowment Scholarship Program will not award scholarships to applicants who are not qualified and reserves the right to not award a scholarship in a given year if it so chooses.

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See The Difference We Make

### The Broadest Selection of Pigments Worldwide

DCL is a global leader in the supply of color pigments and dispersions for the coatings, plastics and ink industries. We are pleased to announce our state-of-the-art manufacturing facility for Perylene, Quinacridone, and other high-performance pigments in Bushy Park, South Carolina. This acquisition includes the production and sales of perylene and quinacridone products, along with select other specialty products. Adding these pigments to our existing high-performance portfolio truly differentiates DCL from our competitors.

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**COLORCHEM INTRODUCES NEW TECHNOLOGY FOR THE EV MARKET**

ATLANTA, GA-- ColorChem International Corp. is introducing technology to color high-voltage safety components for the EV market. ColorChem is already well-known for its high heat product line comprised of numerous proprietary dyes and pigments for use in coloring polyamides (PA) and other high temperature plastics. From this product line, Amaplast® Orange YXL, Amaplast® Orange GXP, and Amaplast® Yellow NX offer the ideal colorant combination for coloring PA and other high-heat applications that require matching the bright RAL 2003 orange color standard for live, under-the-hood electrical components in EVs.

These Amaplast® dyes offer the superior heat stability (400°C), lightfastness (without UV stabilization), sublimation resistance, and weatherability required to color live components in electric vehicles and other high-performance plastic products. Not only are these colorants strong, bright and cost effective for PA, but they can also be used in other high-heat polymers such as PPS, PSU, PC and polyetherimide.



RAL 2003 orange is becoming the industry standard for safety markers and high voltage components in electric and hybrid vehicles. It is the signal color to alert emergency personnel of high voltage and live components contained under the hood. Electric vehicles require much higher voltages and currents than gas powered vehicles. Voltages can be as high as 400V DC in the battery circuit. Therefore, to reduce the risk of serious accidents, live components need to be easily identified by anyone handling the vehicle. Amaplast® Orange YXL, Amaplast® Orange GXP, and Amaplast® Yellow NX will provide the bright and permanent RAL 2003 orange required to keep emergency personnel safe.

ColorChem International Corp. has been providing the plastics industry with the highest quality dyes and pigments for over 20 years. ColorChem offers a wide range of solvent dyes able to color a variety of plastics, especially those polymers that demand the most thermally stable colorants. Many of ColorChem's products are proprietary colorants—developed by ColorChem's R&D team, headquartered in Atlanta, Georgia and manufactured in either the U.S. or Mexico. In addition to the proprietary high heat dyes for nylon, ColorChem also offers a range of dyes for PET, several UV and IR absorbers, as well as the Neolor™ cerium sulfide pigments.

More information is available at [ColorChem.com](http://ColorChem.com). To contact ColorChem directly, please email [sales@colorchem.com](mailto:sales@colorchem.com)

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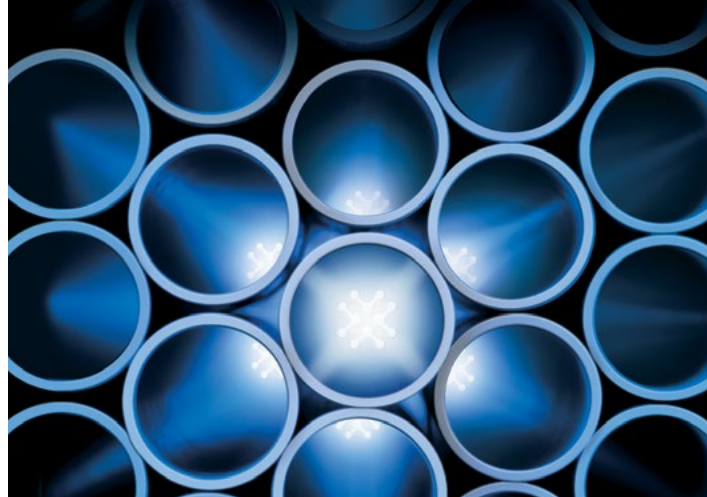


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