Vinyl Division

The Vinyl Division of the Society of Plastics Engineers exists to stimulate and encourage the interchange of nonproprietary information, and to promote the scientific and engineering knowledge related to vinyl plastics technology.

Officer's List

Chair:	Samuel Timpa samuel.timpa@basf.com BASF
Past- Chair:	Emily McBride emily.mcbride@emeraldmaterials.com LANXESS
Councilor:	Bill Arendt william.arendt@gmail.com
Treasurer:	Randy Brown iplasticpi@zoho.com IPPI
Membership Chair:	Emily McBride <i>emily.mcbride@emeraldmaterials.com</i> LANXESS
Secretary/V, Chair:	Ron Raleigh rr100496@yahoo.com Cargill

Table of Contents

Chairman's Message
VinylTec* Hotel and Tutorial Info 2
VinylTec* 2022 Technical Program3-4
VinylTec [®] 2022 Sponsor Recognition5
Sponsor Page6
Outgoing Councilor's Report7
Membership Report
Education Report- Award Recipients
Division Minutes
Sponsor Page10
Sponsorship Information 11
Sponsor Pages 12-15
BOD Contact List 16
Social Network Link16

Fall 2022

Chair's Message

Hello Vinyl Division!



Many of you are probably expecting an opening message from Beth Fitch, but she is most likely off perfecting her golf game right now.

Beth Fitch, our friend, colleague, and pastchair, was lucky enough to start her retirement this summer from ExxonMobil after 25 years of service. Beth and I both joined

the plasticizer and vinyl world within a month of each other in early 2017. Even though our companies are both suppliers in the plasticizer business, through our involvement in the SPE Vinyl Division we got to collaborate to support the vinyl community. It was a pleasure to get to work with Beth over the last five years and I am hopeful she is out enjoying her retirement to the fullest.

As you have probably guessed I am the new chair of the SPE Vinyl Division for 2022-2024. As I mentioned, I joined the vinyl industry in March 2017 through the BASF Plasticizer business. I was quickly welcomed by the SPE Vinyl Division that same year and have been involved ever since. The persuasive powers held by the Vinyl Board of Directors is like nothing I have seen since college. Thanks to the encouragement of the BOD's most recent protegee, Emily McBride, I quickly became active on the Technical Program Committee and served as Chair for the 2019 Vinyltec[®] in Akron. Since then, I have worked on the Board of Directors most recently serving as the Vice-Chair/Secretary. My involvement with the SPE Vinyl Division has provided invaluable networking and learning opportunities across all segments of the vinyl industry.

This summer also included several other changes to the Vinyl Division BOD. Ron Raleigh has taken on the Vice-Chair/Secretary position on the BOD. Ron previously acted as the TPC Chair for the first fully virtual Vinyltec[®] in 2020. Additionally, Bill Arendt will succeed Bob Weiler as the Vinyl Division Councilor, which will be his second time holding this role. Finally, we confirmed five new directors to the BOD including Dave Peeples, Laurant Matuana, Rommel Hariprashad, Steve Hargrave, and John Scott.



CHARTING THE COURSE FOR A SUSTAINABLE FUTURE

SPE Vinyl Plastics Division and SPE Palisades-MidAtlantic Section are excited to announce that this year's conference will be held at the Crown Plaza Philadelphia in King of Prussia, PA. Charting the Course for a Sustainable Future is focused on technologies and topics of importance to the vinyl plastics industry.

> Crown Plaza Philadelphia – King of Prussia 260 Mall Blvd. • King of Prussia, PA 19406

Room rate: \$149 (includes full breakfast) <u>Click here</u> to reserve. Note – if the date chosen for your room reservation shows no availability please call the hotel direct at +1 610.265.7500 and mention Vinyltec[®] (Society Plas). They will assist you in making your reservation.

Please Contact: TPC Chair, Peg Schipper at peggy@performanceadditives.us

Chair's Message (continued)

Each of these members has demonstrated extensive service to the Vinyl Division over the years.

So what's next up for the Vinyl Division...Vinyltec[®] 2022! The theme of the conference this year is "Charting the Course for a Sustainable Future." The TPC, under the leadership of Peggy Schipper, has assembled a great program that includes presentations on vinyl megatrends, additives, sustainability, and recycling. As usual the program will also include the preconference tutorial that will review fundamentals of vinyl additives and manufacturing. This year's conference will take place September 27-29 in King of Prussia, PA. For more details on the program, registration, and sponsorship opportunities please check out the Vinyltec[®] page on the SPE website.

I hope to see you all at Vinyltec[®]!

Sam Timpa Samuel D. Timpa, Ph.D. Chairman, Vinyl Plastic Division



We imagine, create and manufacture the highest quality solid and liquid colorants, color masterbatches and advanced polymer additives for your plastic products. How can we help you?

www.hollandcolours.com

Tuesday, September 27

8:30 A	AM	Keynote / Overview
8:45 A	AM	Resin Selection
9:15 A	AM	Heat Stabilizers (and Lubricants)
10:15	AM	Plasticizers
11:15	AM	Inorganic Fillers
12:00	PM	Lunch
1:00	PM	Mixing Basics
1:50	PM	Calendering Basics
2:45	PM	Extrusion Basics
3:40	PM	Lamination Basics
4:20	PM	Pigments as Colorants: From Manufacture to Application

VINYLTEC[®] 2022 TUTORIAL AGENDA

Mark Lavach, Arkema Andy Bourgeois, Shintech Amanda Peak, Baerlocher USA Bill Arendt, Velsicol Chemical Jennifer Lin & Eric Ernst, Imerys

Sam Browne, Teknor Apex Company Don Scarnulis, i2M Randy Brown, IPPI Sydney Ingles, Armstrong Flooring Kevin Gerzevske, Ph.D. Penn Color



CHARTING THE COURSE FOR A SUSTAINABLE FUTURE

Wednesday, September 28

VINYLTEC[®] 2022 CONFERENCE PROGRAM

8:00 AM	Introduction, Welcome Comments and Event
	Mark Lavach, Arkema
Session 1	Moderator - Ron Raleigh, Cargill
Vinyl Associa	tion Updates
8:10 AM	LEED Certification Case Study - Saint Gobain North American Headquarters
	Stan Gatland, Saint-Gobain NA
8:40 AM	Polymeric Cladding: Sustainability, Resiliency and Design, VSI Workforce Initiative
	Matt Dobson, Vinyl Siding Institute
9:10 AM	An Overview of PVC Pipe's Sustainability Attributes
	Bruce Hollands, Uni-Bell
9:40 AM	Break Sponsored by Kisuma
10:00 AM	The 2022 PVC Reclaim and Recycling Horizon - Lessons from the Vinyl Institute of Canada
	on the Sustainability Space and Its Impacts in the US & Globally
	Tribu Persaud, Norwich Plastics
10:30 AM	PPFA Codes & Standards
	Mike Cudahy, PPFA
11:00 AM	Recycled Materials Standard Activity and Cell Classification
	Alan Kupfer, ASTM

Wednesday, September 28

VINYLTEC® 2022 CONFERENCE PROGRAM

Session 2		Moderator - Bill Kuhn, Hi-Tech Profiles, Inc.
	Addressing M	legatrends (VI Report on Megatrends)
	1:00 PM	Update on PVC Recycling Technologies in Europe. Case Study: Extraction of Heavy Metals from
		Post-Consumer PVC Through Selective Dissolution
		Patrick Morel, KemOne
	1:30 PM	Industry 4.0 Automation With the Planetary Roller Extruder and Continuous Processing
		Michael Batton, ENTEX
	2:00 PM	Future Possibilities for Antimicrobials
		Dr. Richard Spontack, NC State
	2:30 PM	Break Sponsored by Kisuma
	3:00 PM	Industrial AI: Current State and Looking to the Future
		Bryan Dubois, RoviSys
	3:30 PM	Addressing Worker Shortages
		Ed Keil, Plastic Executive Recruiters, LLC
	4:00 PM	Color Improvement Based on High Quality PVC Blending
		Nicholas Gehring, Mi <mark>xaco</mark>
	4:30 PM	Formulating PVC Plastisols with Sustainable Plasticizers
		Amanda Freshwater, Valtris
	6:00-7:30 PM	Cocktail Party Sponsored by Formosa

7:50 AM	welcome, Opening Comments
Session 3	Moderator - William Arendt, Velsicol Chemical
PVC Additives	
8:00 AM	Matting Agents for Vinyl
	Christopher You, Arkema
8:30 AM	Copolyester Additives for Rigid PVC
	Marc A Strand, PhD , Eastman
9:00 AM	Replacement of Tin Stabilizers in Rigid PVC Applications
	Ryo Yamamasu, Adeka
9:30 AM	Break Sponsored by Kisuma
9:45 AM	Performance Attributes of SAN-based Process Aids
	Phil Cascais, Galata Chemicals
10:10 AM	A Study of CaZn/Tin/CaZn Boosted Stabilizer Systems
	Stuart Parks, NORAC
10:40 AM	Recent Innovations in Lubricants for Rigid PVC Extrusion Applications
	Justyn Miller, Sasol
11:10 AM	Advances in Stabilizing PVC with Alkyltin Thioesters & Universal Mechanism of PVC Stabilization
	Peter Frenkel, Galata Chemicals
11:35 AM	Luncheon and Board Meeting, Awards
	Luncheon Sponsored by Carvill

Thursday, September 29

VINYLTEC° 2022 CONFERENCE PROGRAM

Session 4	Moderator - Emily McBride, Lanxess	
Sustainability and Recycling		
1:00 PM	Life Cycle Analysis and Vinyl Sustainability Council	
	Domenic DeCaria, Vinyl Institute	
1:30 PM	Plasticizers in Food Contact Materials - Media & Scientific Issues, Regulatory Situation, and	
	Important Topics for the Future	
	Patrick Harmon, BASF	
2:00 PM	Break Sponsored by Kisuma	
2:15 PM	The Next Generation of Carbon Black From Renewable Energy and Methane	
	David Zheng, Monolith	
2:45 PM	Vinnolit GreenVin PVC Thermoplastics Specialty Resins with Lower CO2 Emission Levels	
	Dr. Andreas Winter, Westlake Vinnolit <mark>GmbH &</mark> Co. KG	
3:15 PM	Inline Dual Stage Slot Capillary Extrusion – Why Shear and Heat History of PVC Formulations	
	Including Recycled Materials Matter	
	Matt Luebbers, Ph.D., Brabender CWB Instruments, Inc	
3:45 PM	The Role of Acrylic Processing Aids in PVC Recycling	
	John Cornetta, Dow	

A special thank you to the following sponsors for their generous contributions to the VinylTec[®] Event!



Vinyl Division Newsletter

page 5

Fall 2022 Edition



CONNECTING USA MANUFACTURERS WITH GLOBAL TECHNOLOGIES.

Our US based logistics team and technical lab help us bring global raw materials into your North American facility.

We bring the following products to your front door:

Tin Stabilizers Acrylic Impact Modifiers Processing Aids Chlorinated Polyethylene CPVC Resin & Compounds Antioxidants Optical Brighteners UV Absorbers Light Stabilizers Flame Retardants Nucleating Agents SAN Process Aids

PerformanceAdditives.us • info@PerformanceAdditives.us

Councilor's Report

March 30, 2022



President's Remarks – Jason Lyons

2021 was a successful year for SPE.

- Most profitable year in decades over \$1 MM in earnings.
- Created an Industry Advisory Board for Diversity, Equity and Inclusion.
- Re launched PLASTICS ENGINEERING as an inhouse publication. SPE was recognized with 3 awards for communications.

• SPE managed 3 virtual conferences in 2021 with attendance of over 1,800 SPE Foundation grew and over \$202,000 was given out in scholarships.

Financial Report – Pat Farrey

- Assets are up, Liabilities are down
- Revenues were over \$4 MM. • Dues contributed \$610 M
- Investments contributed \$702 M
- Publications contributed \$1,160 M Expenses were just over \$3 MM • SPE financial position is better after Covid period than before.*
- Budget for 2022 is conservatively to break even • SPE HQ is now 100% virtual-they no longer have a HQ building.

New Programs introduced in 2021/2022

- Diversity, Equity and Inclusion Advisory is being highly acclaimed. Focus is on increasing interest in STEM and plastics in particular among groups that are not now highly represented.
- "Teach the Geek "- new online training for improving presentation quality. Now available on the 4SPE website.
- Developing a new training program for leaders. This will be a 6 month virtual meeting/online workbook program to improve leadership qualities. This will be available later in 2022

ANTEC[®] – Pat Farrey

- Tue June 14 am Chapter Leadership Roundtable • Tue June 14 – pm General Session w/ keynote speakers
- General Reception and Meetup at NASCAR Museum • Tue June 14 – Eve
- Technical papers on 3 concurrent tracks Wed June 15 Lunch SPE Awards luncheon • Wed June 15 – am/pm
- Wed June 15 Eve Networking session
- Technical papers on 3 concurrent tracks • Thu June 16 – am

By-law changes - Bruce Mulholland

- Terms of Executive Board changed to match the current Fiscal/Calendar year.
- Fellows and Honored Service Members have been granted lifetime membership.
- Student Membership now includes part time students.

Strategic Plan – Bruce Mulholland

Bruce reviewed several new initiatives that SPE EB is developing.

- New technical focus programs being developed to coordinate all publications around a single topic.
- Color and Appearance held a "National Week of Coloring Plastics". Look for more of these programs.
- SPE will develop a webinar on How to use SPE resources.
- SPE will look to present more programs of general topics of interest and not necessarily technical topics.
- SPE developing a micro-recognition program to recognize people for their attendance at technical meetings.
- More recognition for lifetime contribution to plastics.

Robert Weiler Robert Weiler Vinyl Division Outgoing Councilor As of August 24, 2022 the Vinyl Division was comprised of 387 members.

A special welcome to the following new members: January 14, 2022 - August 24, 2022

Join Date	Name	Company Affiliation	Member Status
01/21/2022	Zachary Hoffman	Mannington Mills	Professional
01/25/2022	Abraham Ganipur		Professional
02/01/2022	Noshir Khandwawala	Ineos Olefins & Polymers	Professional
02/16/2022	Dave Smith	Nalco Water	Professional
03/08/2022	Travis Getzie	Getzie Consulting	Professional
03/16/2022	Damien Digney		Professional
03/21/2022	Jessica Rutherford	Tronox	Professional
04/14/2022	Asya Tucker	Clark Atlanta University	Student
04/22/2022	Peng Quan	Michigan Tech	Student
05/06/2022	Alice Albrinck		Professional
06/02/2022	Qi Chen	Dow Chemical	Professional
06/10/2022	Elayna Simmons	Baerlocher USA	Young Professiona
06/14/2022	Qiming He	Technor Apex	Young Professiona
06/14/2022	Andrew Kiezulas	Coatings2Go, LLC	Young Professiona
07/19/2022	Brian Lynch	Palmer Holland	Professional
07/19/2022	Gilbert Page	Evoqua	Professional
07/30/2022	Shane Harton	C.W. Brabender Instruments, Inc.	Professional
08/10/2022	Hiroyuki Fukushima	Monolith Materials	Professional
08/15/2022	Janet Sebastian	Proviron Inc.	Professional
08/24/2022	Brent Cassata	Avient Corporation	Professional

Emily McBride

Emily McBride Membership Chair, Vinyl Plastics Division

387 MEMBERSHIP COMPOSITION

Education Commitee Chair Report

Congratulations to our scholarship winners Kristen Lavallee and Meghan Sebby



Kristen Lavallee



Meghan Sebby

Kristen is a graduate of Conestoga High School in Berwyn, PA. She is the daughter of Paul and Peggy Lavallee, and will be attending Duquesne University in Pittsburgh this fall.

Meghan is a graduate of Downington STEM Academy in Downington, PA. She is the daughter of Dean and Beth Sebby, and will be attending the University of Denver this fall, majoring in Psychology.

> Andy Bourgeois Andy Bourgeois, **Education Committee Chair**

Board of Directors Minutes (abbreviated) February 23, 2022

Attendees: William Arendt, Curt Badeau, Andy Bourgeois, Beth Fitch, Rommel Hariprashad, Mark Lavach, Laurent Matuana, David Peeples, Peggy Schipper, Sam Timpa, and Robert Weiler.

1. Approved of previous minutes approved with minor corrections: Mick was not at October BOD meeting/confirmed to Bob Weiler he still wants to be a director.

Councilor's Report – Bob Weiler

See page 7 in this newsletter. Also discussed nominees for next Councilor.

Committee Reports

Awards - Beth Griffin

↔ Best Commercial presentation (2021

↔ Best Technical Presentation (2021)

Secontributions to Vinyl Award (nominated by TPC) ↔ Outstanding Service to Vinyl Award (nominated by TPC) Discuss other awards (Honored Service Member (HSM) and Fellow- (nominated by TPC)). Peter Frankel (Galata) wants to try for fellowship - Bill A. will forward to fellows committee. Confusion about 6 continuous years at date of application.

Education Committee – Andy Bourgeois

New deadline, Scholarship deadline May 31. Talk to the VI about if they are still sending students to the meeting. Did not in 2021, but Andy will double check with Sylvia. Application form will be included on the website.

Membership – Emily McBride

395 Members (some lapsed since August), 7 new members in 2022

TPC Update - Peggy Schipper

Mark L. received hotel contract.	•220 total rooms (50 Mon., 80 Tues. & Weds, 10 Thurs.); rate \$149/night
+	

- \$80/person/day
- 20% attrition rate
- Total cost ~\$35,000

• July 1 responsible 25%

- So far so good
- Call for papers will go into newsletter and upcoming email blast
- **Treasurer Randy Brown**
- Is an audit required this year? No update.

MASCHINENBAU

WE RECREATE THE FUTURE.

New ideas and solutions to take back the future.

For over 60 years, **MIXUACO** have been at the forefront of the design, manufacture and installation of PVC mixing plants. In these globally challenging times, MIXACO is focussing on new ideas and unique solutions to contribute to the drive to improve quality, consistency and productivity for all of our customers.

Let's rebuild the future together!

The relaunch of a classic

Hot&Cold mixing combination

OUR INNOVATIVE SOLUTIONS

- Suitable for a wide range of applications such as, e.g. heating, agglomerating, bonding
- Process-optimized mixing tools for optimum energy input
- Performance-optimized selection of mixing drives for high energy efficiency
- Innovative aspiration for optimum dehumidification of the mixture
- Extensive additional equipment for individual adaptation to on-site requirements
- ATEX version available

CONTACT US

for your mixing trials and to benefit from the extensive experience of our design and application engineers:

- Tests on various mixing systems
- Adaptation of mixing parameters
- Recording and documentation of mixing tests
- · Analysis of mixing results



MIXACO

Dr. Herfeld GmbH & Co. KG Niederheide 2 - 58809 Neuenrade - Germany Phone +49 2392 9644-0 - Fax +49 2392 62013 - Info@mixaco.de

MIXACO USA, LLC

1784 Poplar Drive, Greer, SC 29651 Phone: (864) 331-2320 - Fax:(864) 331-2321 info@mixaco.com

HORIZONTAL EXECUTION

MIXACO.COM

germany

continued from page 9

Sponsorship/Newsletter – Peggy Schipper/Bill Arendt Funds Collection for newsletter. Randy working on this.

Old Business -

Discussion about future Vinyltec^{*}s: 2023/24 – Chicago and Akron may be interested – need to decide by the next meeting

• ANTEC $^{\circ}$ 2022 – no activity this year

• Archiving - ad hoc committee to be created (Peggy, Ron, and Curt?)

New Business -

Katie Zaert's email about Impact Report 2022. Rcvd kudos for student support. Next meeting – June Future projects (evergreen topic)

Adjournment



Vinyl Division

The Vinyl Division of the Society of Plastics Engineers is currently looking for businesses to fill sponsorship opportunities in this newsletter publication. Not only does this help publicize your business, but it helps to support our Division efforts to communicate more effectively with our members with our newsletter.

Column Width: 3-7/8" wide.

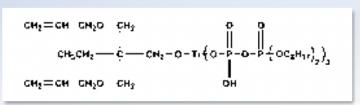
The following options are available:

Option A	One Column by 2" high	\$100
Option B	One Column by 4" high	\$150
Option C	One Column by 6" high	\$200
Option D	One Column by 10" high	\$250
Option E	8" wide by 5.25" high	\$250
Option F	8.5 x 11 Bleeds to end of page	\$500
Option D Option E	One Column by 10" high 8" wide by 5.25" high	\$250 \$250

Acceptable formats are: .bmp .pcx .jpg .tif .gif MS Power Point or Word, but please export as .pdf

File size limit: 700K This is an electronic newsletter which is published to the membership and posted on the SPE website. Please also provide the website address you wish your sponsorship to be pointed to when viewers click on your space. We will embed this, we just need to know where you want this directed.

Contact Peggy Schipper for more information or to attach your artwork.



0.2% Ken-React[®] LICA[®] 38 Vinyl -NANO-Technology:

- Less Plasticizer
- Greater Tensile
- More Elongation
- Higher Impact
- Increased Flow
- Glossier Parts
- Better Aging
- Polymer Alloying
- Toughness
- Flame Retardant
- Adhesion
- Flexibility
- Hydrophobicity
- Recyclability
- Sustainability

customerservice@4kenrich.com

www.4kenrich.com

We're commited to innovation

Formosa's Formolon[®] Suspension PVC resins are designed for today's applications and we actively work with customers to develop resins for tomorrow's applications.

Examples of end-use applications include pipe, siding, fencing, decking, railing, window & doors, automotive, wire & cable, blown film, medical and many other rigid and flexible applications.

Our customers rate us as the producer 'Easiest to Do Business With" and our technical service, customer service and sales representatives as 'Best in the Business'.

Contact us today for your PVC needs (888) 372-8723



You expect more. And Formosa delivers."

www.fpcusa.com



We have you covered - so you can focus on more important things.

We offer a complete range of Specialty Vinyl Resins:

- Homopolymer
- Copolymers
- Blending
- General Purpose and Specialty Suspension Resins

Mexichem Specialty Resins, Inc. 33653 Walker Road, Avon Lake, Ohio 44012 1-877-226-7355

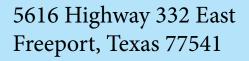
www.vestolit.com United States | Mexico | Colombia | Germany Vestolit is the world's largest manufacturer of Specialty PVC Resins for plastisols, organosols and high strength and high porosity specialty suspension resins, as well as a major producer of standard suspension grades, featuring eight manufacturing sites in four countries with technical expertise throughout the world.





RIGID PVC DRYBLENDS & PELLETS

For Clear Opaque Extrusion Injection Molding Applications



979-705-4368/979-705-4308 K-Bincustomerservice.com

> ISO 9001:2015 Certified



COMPLETE LINE OF PVC RESINS



http://www.shintech.com/



AURORA PLASTICS

Innovative. Focused. Collaborative. Responsive.

Aurora Plastics offers the highest quality products and great service to customers looking for the very best polymer solutions. Our broad product portfolio is used for various applications, and we specialize in collaborating with you to find a customized solution to meet your needs. We back that up with an engineering technology services team that is best-in-class. That means when you have an idea, we'll work with you to make it happen.

- > Rigid and Flexible PVC
- > Rigid Cellular PVC and TPE Foam
- > Custom TPO
- > TPE
- > PVC/Nitrile
- > Rigid PVC/Acrylic Alloys

- > CPE Alloys
- > Flame-Retardant Concentrates
- Low-Smoke Zero Halogen Compounds
- > Purge Compounds

Aurora Plastics' facilities utilize quality systems that are ISO Certified 9001:2015 with Design, setting the benchmark for product quality and lot-to-lot consistency.

For more information on how we can meet your polymer needs, call us today at **330.422.0700** or visit us at **auroraplastics.com.**



Fall 2022 Edition

With over 50 years supporting North America, and now as a member of the Peter Greven Group, we offer a global reach.



Offering customizable solutions in: Lubrication • Stabilization • Optimization

OFFICERS

President/Chair Samuel Timpa

Past ChairEmily McBride

Secretary/Vice Chair..... Ron Raleigh

Treasurer...... Randy Brown

Membership Committee ChairEmily McBride

Awards Committee Chair..... Beth Griffin

Education Committee ChairAndy Bourgeois

Newsletter Editor / Communication Chair Peggy Schipper

Tech Program ChairPeggy SchipperWeb Content MasterPeggy Schipper





noracadditives.com 870-572-9061



Officers / Directors

DIRECTORS

2020-2023 Curt Badeau Andy Bourgeois Beth Griffin Roland Ruprecht

2021-2024

Bill Arendt Michael Jakupca Mark Lavach Sylvia Moore Ron Raleigh

2022-2025 Steve Hargrave Rommel Hariprashad Laurent Matuana William (Dave) Peeples John Scott



Please join us on facebook. Click on facebook logo