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

01 .	E 11 M D 11
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emily.mcbride@emeraldmaterials.com

Emerald Kalama Chemical

Past- Chair: Robert Weiler

rgweiler@zoominternet.net

Retired

Councilor: Robert Weiler

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Treasurer: Randy Brown

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Membership Chair: Samuel Timpa

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Beth Fitch Secretary:

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Table of Contents Chairman's Message

Chairman Wessage
Membership Report
Treasurer's Report
VinylTec* 2020 Contact Info
VinylTec* 2020 Program Info
Your Division at Work - Scholarship Opportunities 4
Sponsor Page5
Member Input6
Sponsor Opportunities6
Board Member Bios for July Election
Councilor's Report8
SPE Executive Board Results
Welcome New Vinyl Division Members
Sponsor Pages
Social Media Link
BOD Contact List

Chairman's Message

Summer 2020



It is hard to believe that we spent the better part of spring and are now going into summer in various stages of lockdown throughout the world. Social distancing has forced us all to look at new ways to utilize online resources in order to connect with one another and continue to do our daily business. The Vinyl Division has been watching events closely so

that we can make the appropriate plans for our upcoming Vinyltec® 20/20: A Clear Vision of Vinyl in the Future. This annual conference was originally scheduled to take place in-person in King of Prussia, PA; however, due to the continued restrictions and the course that this year has taken, the BOD and TPC have decided to instead hold our first 100% virtual Vinyltec®—talk about a "Vision of Vinyl in the Future"!

Several key factors weighed in to our decision to hold a virtual Vinyltec® rather than choosing to continue the in-person conference as planned, or canceling the conference entirely. Given the Vinyl Division's mission to provide education on vinyl plastics, it was widely agreed that holding a Vinyltec® conference this year was preferable to canceling it. In addition, many companies have cut down significantly on their travel budgets in order to weather the recession, so we wanted to be able to present a low cost option. Holding the conference online allows us to educate our members at a low cost while providing the safest option for our attendees. Although the format of this year's Vinyltec® will be a completely new venture for all of us, we are excited to be able to bring you the high quality, topical, informative presentations that you have grown to expect from Vinyltec*.

This decision was only recently undertaken, so please be on the lookout for more details in the weeks to come. We hope that this new, online format will make this year's Vinyltec® more accessible to a broader audience, and look forward to your feedback on it.

> **Emily McBride** 2019-2021 BOD Chair

Membership Report

June 2020

Below are our current membership status as of June 4th

Total Membership					458
Distinguished					2
Emeritus					. 47
Professional					. 51
Young Professional					309
Student					. 49
Joined 2020					. 17

See page 8 in this newsletter for our most current new members.

Samuel Timpa Membership Chair, Vinyl Plastics Division

VINYLTEC*2020 October 20-21, 2020

The Vinyl Division Board and Technical Planning Committee are pleased to present VinylTec* 20/20: A Clear Vision of the Future of Vinyl. This year's exciting and informative event will take place Oct. 20-21, 2020 and will be presented in the safety of a virtual attendance and presentation format.

Please join us for 2 days of industry networking, application discussions, regulatory updates, and product introductions.

Questions? Contact

Please see the agenda on the next page. (page 3)

Treasurer's Report - June 01, 2020

These times are like no other that I've experienced. Everyone with investments knows what an unusual time this has been the past 3 months. The financial health of the division is good and as a result we have a large portion of our assets invested in stocks and bonds. Prudently, we are invested in relatively conservative funds. However the past 3 months have hit us just like most investors. From February 1st to March 1st, the value of our investments decreased by 14.4%. Then things stabilized and by April 1st we were even with March. By May 1st we had gained 6% then another 3.5% by June 1st. Overall we are down 5.2% from the high earlier this year but still 2% above where are investments were last year at this time.

Primarily due to a very successful VinylTec[®] last year where we netted over \$30,000, our total assets are over 7% higher than they were last year. The balances as of 6/1/20 rounded to the nearest dollar are:

Checking	\$ 12,792
Savings	\$ 21,092
Investments	\$ 172,580
Total	\$ 206,464

Randy Brown Treasurer, Vinyl Plastics Division



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Vinyltec [®] 2020 Agenda (PVC 101)	
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October 20

9:00-9:30	PVC Markets and Uses - Sylvia Moore (Shin-Tech)
9:30-10:30	PVC Resin and Formulation – Bob Paradis (Formosa)
10:30-10:45	Break
10:45-11:45	PVC Compounding and Extrusion -Rob Kwapicz (Rheogistics)
11:45-noon	Session 1 wrap-up and questions
Noon-12:45	Lunch
12:45-1:45	Flexible PVC and Plastisols – Bill Arendt (Arendt Consulting)
1:45-2:30	Additives for PVC – Bob Smith (PMC)
2:30-2:45	Break
2:45-3:45	Properties and Testing - Mark Lavach (Arkema)
3:45-4:00	Session 2 wrap-up and questions

Vinyltec® 2020 Agenda

October 21

9:00-9:15	Introductions/Opening
9:15-10:00	Key Note Industry Update - "Economic and Legislative Trends Through a Vinyl Lens",
	Vinyl Institute (Ned Monroe)
10:00-10:30	Equipment - "A Comparison of How Various PVC Polymer Types Differ in the
	Mixing Process and the Effect of Extrudates", Mixaco (Nicolas Gehring)
10:30-10:40	Break
10:40-11:10	Materials - "Lubricant Function and How it Influences Clarity, Color Development, and
	Thermal Stability", Norac (Rob Decker)
11:10-11:40	Materials – "Current and Future TiO2 Technology and PVC Applications",
	Chemours (Adam Reinitz)
11:40-12:10	Materials – "The Application of 1.5-Nanometer Titanates and Zirconates to Achieve
	Sustainable Goals in PVC and Recycle", Kenrich (Sal Monte)
12:10-12:40	Lunch
12:40-1:10	Materials - "Foaming of PVC Using Ultra High Molecular Weight Acrylic Processing Aids",
	Dow (Manoj Merkar)
1:10-1:40	Materials - "Fischer Tropsch Wax: Boosting Performance in Rigid PVC Extrusion",
	Sasol (Philip Richards)
1:40-2:10	Sustainability – Joining the Movement: The Impact of End-of-Life Material Management
	on the Vinyl Industry", Vinyl Institute (Dom Decaria)
2:10-2:20	Break
2:20-3:05	Key Note Resin Update- "PVC Markets in Times of Change" Formosa (Yvonne Huang)
3:05-3:35	Application – "Test Method for Quantitative Measurement of Plasticizer Migration in PVC
	Skin Compounds", Mitsubishi Chemical Performance Polymers (Nischay Shivaprakash)
3:35-4:05	Application - "Microporous PVC: Applications in Irrigation, Aeration, Filtration, Extraction,
	and Catalysis", Idea Forge LLC (Steve Grunzinger)
4:05-4:20	SPE Vinyl Division Business Update
4:20-4:30	Closing
4:30	Networking Event

Vinyl Division Makes Large Donations to Support Student Education Vinyl Plastics Division Scholarship Available

The Vinyl Division BOD, under the direction of Chair, Emily McBride, has voted to "Pay Forward" some of the surplus from this year's successful VinylTec® Conference. The Vinyl Division will make donations of \$5,000 to be a sponsor of the ANTEC® Student Poster Session, \$3,500 to the SPE Foundation to support the Plastivan® and another \$2,000 toward the SPE Student Scholarship fund.

The ANTEC® Student Poster and Travel Fund encourages students to travel to ANTEC® and to present interesting plastics related developments in front of the large gathering of plastics professionals. Vinyl Division will be recognized as a sponsor of the Student Poster Session. We are hopeful that our presence as a sponsor reminds students and their mentors of the importance of vinyl as a utile and still growing workhorse resource in the plastics industry.



The SPE Foundation Plastivan® program reaches out to students in high school and middle schools to support the significance of plastics in their lives and to reinforce the importance of STEM education in general. Last year the Vinyl Division supported two Plastivan® visits in the Akron area. Our donation this year will support another two visits.

Our donation to **the SPE Scholarship Fund** will support plastics scholarships in general. The Vinyl Division also provides scholarships to family members of current Vinyl Division members. Additionally, we have resources that can be used to support students directly studying vinyl or who are using vinyl in academic research. Check out our website for further information.

Please see website on how to apply for next year. Our 2020 winners will be announced at the Virtual Vinyltec® on October 20-21.

Please contact David Owen with any questions.





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Members Input:

Vinyl Education & Industry News Submission

Dear Members:

We are open to receiving and publishing information that is pertinent to supporting our division. for the following mediums:

Newsletter, Facebook or the Website.

Please contact Peggy Schipper via email or by phone: 484-846-0016



The Vinyl Divison 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	Business Card	One Column by 2" high	\$100
Option B	Double	One Column by 4" high	\$150
Option C	Triple	One Column by 6" high	\$200
Option D	Half Page	One Column by 10" high	\$250
Option E	Half Page	8" wide by 5.25" high	\$250
Option F	Full Page	8.5 x 11 Bleeds to end of page	\$500

Rates are for the entire Season- Summer 2019 – Summer 2020. Payable in advance and an invoice will be provided. 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.

Vinyl Plastics Division Board of Directors Elections



The Vinyl Plastics Division (VPD) Board of Directors is the ultimate body responsible to the Division membership at large for the governance of the Division as a whole, and, as such, is the final authority as to the governance of the Division. The VPD Board of Directors shall consist of fifteen Directors. The fifteen Directors are arranged in three classes of five Directors each, with staggered three-year terms. In addition to the fifteen elected Directors the Technical Program Chairperson and the Technical Program Secretary will also act as Special Directors with full voting rights as Directors.

Five members in good standing have been nominated to serve as directors for the 2020 – 2023 term. These members have accepted the nomination and will stand for election; Andy Bourgeois, Beth Griffin, Roland Ruprecht, Peggy Schipper and Sam Timpa. Brief Bios follow for review. Look for the ballot in your mail in July.

Andy Bourgeois

After graduating from LSU in Mechanical Engineering in 1990, Andy spent 14 years at Georgia Gulf working in extrusion technical service, a role which in time included rigid extrusion compound development. (His introduction to the world of travel took him to such exotic locales as Jeddah, Saudi Arabia and Youngstown, OH.) He then spent three years working at Ply Gem in R&D, responsible for compounds at their siding, fence and window plants. At Lubrizol Advanced Materials, Andy worked on materials to provide solutions for dark colored siding and profile in high heat applications. (There's a patent out there somewhere with his name on it for his efforts.) In 2010, he went "back home" to Louisiana to work at Galata Chemicals for six years in tin and mixed metal stabilizers technical service before relocating to Texas, where he assumed the role of Technical Service Manager at Shintech.

Beth Griffin

Member Board of Directors - Vinyl Division since Oct 2018. Vinyl Division Technical Program Committee since 2010. SPE member since 1999. Enjoyed attending VinylTec since 2000. Bachelor of Science (BS) Chemical Engineering from Iowa State University and studied business at the University of Houston CLC.

Beth started work at the DuPont Company at a plant in Houston then moved to Wilmington DE to take on jobs in technical service, marketing and business research, and product management before settling into an R&D career working with customers developing polymer modifiers for applications in industrial and construction markets. This included Elvaloy modification of PVC for flexible and rigid applications. She has presented several papers for VinylTec* and for ANTEC* and holds patents in the area of polymer modification. Over the years Beth has enjoyed the honor of working with many Vinyl Division legends who "wrote the book" on PVC.

Roland Ruprecht

Roland Ruprecht joined Teknor Apex in 2004 and currently works as the Vinyl Technical Manager for the Vinyl Division. Roland became the Technical Manager overseeing research and development, technical service, and process development. Prior to this role, he was the R&D manager in Vinyl in where he oversaw research and development in the area of automotive compounds, W&C cable compounds, weatherable compounds for B&C, and process development. Roland has also conducted research on process optimization, halogen free flame retardants, and bioplastics. He currently has been granted three patents in the various areas of his research. Roland Ruprecht attended UMass Lowell for Plastics Engineering and is currently enrolled at Boston University for Business Management.

Peggy S. Schipper

Peggy is currently Sr. Sales Associate for Performance Additives, LLC. She has over 30 years experience in Technical, Business Development, and Business Management positions in the Specialty Chemicals market. She received her Master of Science degree in Polymer Science from the Pennsylvania State University and her MBA from Fairleigh Dickinson University.

Peggy has held various offices within the Vinyl Division & Palisades-NJ Section of the Society of Plastics Engineers including Chairman & Technical Program Chairperson of the Vinyl Division and President of the Palisades-NJ Section. She is currently a member of the Palisades-NJ Board of Directors and the social media manager for the Vinyl Division & Palisades-NJ section. She is also an Honored Service Member of SPE. She has several patents and has written numerous papers on various PVC and acrylic related topics. In her spare time, Peggy consults and mentors people on the use of Linked-In networking to find employment.

A scholarship basketball player at Penn State, Peggy continues to enjoy the sport and has won several medals in Masters level basketball with some of her old teammates. She has two boys who have flown the nest and are adulting in the Northeast. Peggy lives in Wayne, PA with her collection of cats.

Sam Timpa

Sam Timpa received a BS in Chemistry from Centenary College of Louisiana in 2009 and PhD in Organometallic Chemistry from Texas A&M University in 2014. He began his professional career with BASF in the PhD Leadership Development Program. Sam worked in various roles over the course of the program including R&D, procurement, and manufacturing support. He joined the BASF Plasticizer business in 2017 as a Technical Service Specialist following completion of the program. This role includes customer technical support, new product development, and process optimization. He is also involved with several external industry organizations including the ASTM D20 Plastics Division and SPE Vinyl Division. Since joining the SPE Vinyl Division in 2017 he has served as the TPC secretary (2018) and chair (2019), and he currently serves as Vinyl Division Membership Chair.

Councilor's Report *March 27*, 2020



Crazy times! The ANTEC® Council Meeting originally scheduled for March 28 and 29 in San Antonio was held remotely on March 27.

Presidents Report - Brian Landes

Brian complimented SPE staff for their efforts to change the ANTEC® into a virtual event. Brian's term will be ending this Summer. He started the year looking forward to pushing SPE to become

the focal point for sustainability discussions. Nature has a way of laughing at our plans and forcing us to change priorities. The Covid pandemic and resulting business disruption has now become the only issue of significance.

Financial Report - Jeremy Dworshak

2019 Fiscal Year showed revenues of \$4,457,000 against expenses of \$3,643,000. This is a net gain of \$817,000. Sounds good, however, most of the income gain was due to controlling expenses. Revenues were down from last year.

Similarly, ANTEC® 2019 showed a surplus of about \$200,000 despite having revenue about \$200,000 below last year. The surplus was primarily due to reducing costs at ANTEC®.

CEO Pat Farrey and the SPE staff are working hard to control costs to assure that ASPE remains viable into the future.

SPE Governance - Bruce Mulholland

SPE is moving forward to changing the governance. The current structure that relies on a vote of all councilors to change bylaws or to make significant changes to direction is cumbersome and slow. Moving forward SPE will rely on an Executive Board that is composed of 7 VPs (no change in number). VPs will be elected by the Council and rom the Council with the exception of 1 VP who will be appointed by the President. This new Executive Board will be the ultimate governing body of the society. The full Council can review any actions of the Executive Board within a 6 month window and vote by 2/3 majority to overturn.

In summary, the positions map as follows:

VP Marketing & Communications → VP Sustainability VP Technology & Education → VP Publications

 VP Events
 →
 VP Professional Development

 VP Young Professionals
 →
 VP Member Engagement

 VP Sections
 →
 VP Chapters

 VP Divisions
 →
 VP appointed

VP Business & Finance (unchanged)

CEO Update - Pat Farrey

ANTEC $^{\circ}$ – Pat complimented the Staff for their herculean efforts to convert ANTEC $^{\circ}$ to a virtual event. This was accomplished within a 2 week period. All keynote speakers have agreed to give their presentations virtually and 200 of the technical presentations will be broadcast over the next 5 weeks. Many of the sponsors, exhibitors and registrants have agreed to convert their registrations to the new virtual ANTEC $^{\circ}$. This will minimize the financial losses we would have expected from cancelling or delaying the ANTEC $^{\circ}$.

SPE in Action – SPE opened a completely online community, SPE in Action—The Battle Against COVID-19, for plastics professionals to remain connected with peers for personal and professional support.

Plastivan is offering new programs that are online and targeted for at home school support.

SPE Polymers is an open access scientific journal to allow authors another avenue to publication that will be debuting later this Summer.

Student Activities – Several Divisions and Sections were recognized for support of student activities at ANTEC*. The Vinyl Division was listed first and in bold for our contribution.

Robert Weiler

SPE Executive Board Election Results – June 1, 2020

SPE will say farewell to outgoing SPE President Dr. Brian Landes, when he officially passes the gavel to Dr. Jaime Gómez, as he embarks on his term as SPE President.

President - Jaime Gomez

Jaime is a partner and Chief Operating Officer at QMeTech LLC in Princeton, N.J. He has been a councilor for many years and recently served as SPEs vice president of events. He coordinated a scavenger hunt for young SPE members, called Plastics Race, at ANTEC® conferences.

President Elect - Jason Lyons

Jason is Business Manager for Arkema and has been serving SPE Board of Directors as Vice President of Divisions (2016-Present). Jason was on the EPSDIV Board of Directors 2010-2018 and the Additive Manufacturing SIG Board of Directors (2016-Present)

Vice President Business and Finance – Edward Truman

Ed has Broad Executive experience to include Sintex Industries (CEO), JER Envirotech (Chairman/CEO), AlphaGary (Global Automotive Director TPE's). Ed is a member of the SPE Detroit Section.

Vice President Sustainability - Connor Carlin

Conor Carlin is the Sales & Marketing Manager for CMT Materials, a company specializing in lightweight composite materials for applications in plastics and packaging. Carlin was on the SPE Thermoforming Division board for 8 years and has recently served as Vice President, Marketing & Communications of the SPE Executive Board.

As of July 1st the Executive Board is as follows:

- VP Marketing & Communications, Conor Carlin, becomes VP Sustainability ongoing election
- VP Technology & Education, Ray Pearson, becomes VP Publications
- VP Events, Bruce Mulholland, becomes VP Professional Development
- VP Young Professionals, Lynzie Nebel, becomes VP Member Engagement
- VP Sections, Scott Eastman becomes, VP Chapters
- VP Divisions role becomes and an appointed VP and will serve one year. *This person is yet to be appointed by Jaime.* Jason Lyons, was VP Divisions and was recently elected as President-Elect
- VP Business & Finance (unchanged) currently Jeremy Dworshak, newly elected Edward Trueman will take office July 1.

	Welc	ome New Members!	
	A special welcon	ne to the following new memb	ers
	March	4, 2020 - June 6, 2020	
Join Date	Name	Company Affiliation	Member Status
3/04/2020	Stacy Nguyen	Univ. of North Texas	Student
3/26/2020	Tianle Liu	Univ. of Michigan	Student
3/27/2020	Meagan Wheeler-Rogers	Univ. of Sydney	Student
3/29/2020	Cole Wolfe	Penn State	Student
4/13/2020	Yessin Bouzidi		Student
4/25/2020	Dalia Hernandez Vega	Wichita State	Student
5/12/2020	Brian Kuritz	Mannington	Professional
5/27/2020	Keely Hoppmeyer	Univ. of Southern Mississippi	Student
	Larry Moody	Dutchland Plastics	Professional



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