



FOUNDATION

IMPACT REPORT 2019

The SPE Foundation supports the development of plastics professionals by funding quality educational programs, grants and scholarships.

YOUR WORK MATTERS

spwe
Support the Future of Plastics

LETTER FROM ROGER KIPP, SPE FOUNDATION CHAIR

Greetings,

The SPE Foundation has completed another exciting year. With continuing industry support, a fantastic SPE staff, and the dedication of our Board, the Foundation has expanded our outreach through student scholarships, global grants, and expansion of the PlastiVan® Program. The Foundation supports an alliance of manufacturing with plastics education creating a true opportunity for growth, progress and sustainability for our industry.

This year your support has resulted in \$43,000 in technical education program grants and 50 scholarships managed by the Foundation totaling \$113,250. With Foundation leadership and the support of our many sponsors we continue to expand the potential of the PlastiVan® Program. Besides introductory plastics education to improve the perception of plastics the new PlastiVan Sustainability Curriculum teaches students exactly how to recycle in their community and what measures industry is taking to solve global end-of-life issues with plastics. In the upcoming school year PlastiVan® will again touch over 26,000 students.

Our impact wouldn't be possible without a focus on the future by SPE Chapters and industry sponsors. We invite you to review this report and learn more about our work. It's a privilege for me to be part of the Foundation Board and I encourage you to connect personally with me at srkipp@msn.com with questions and suggestions.

Thank you for your trust and generous support.

SPE FOUNDATION BOARD



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*SPE Foundation,
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LETTER FROM BRIAN LANDES, PH.D., SPE PRESIDENT

It is often said that a picture says a thousand words. As I studied the 2018 SPE Foundation Impact Report, I was struck by the words that its pictures conveyed... wonder, excitement, curiosity, passion, opportunity, dedication, community, partnership and stewardship. Foundation staff, volunteers, teachers, students, businesses and our communities are all inspiring our next generation. The SPE Foundation, through scholarships, grants and PlastiVan®, continues to showcase the exciting opportunities that are available for future generations. Today, the rewards are positive impact on the students and the communities in which they live. Tomorrow, as plastics professionals, they will be inventing, producing, and repurposing new materials that bring benefits to society, the economy, and yes, the environment. **Thank you to everyone who invests their time, energy and resources to support the SPE Foundation.** It is these efforts that are building the foundation for our industry's future, and for a better future for our planet!



SPE SCHOLARSHIPS

The SPE Foundation offers numerous scholarships each year to talented undergraduate and graduate students seeking careers in the plastics industry.



\$36,000

Foundation funds awarded

\$77,250

*Section & Division
sponsored scholarships*



**46 SCHOLARSHIP
RECIPIENTS**
AT
27 UNIVERSITIES

\$21,950

ANNUAL COST OF ATTENDANCE
at a public four-year in-state institution
*according to Statista.com



THANK YOU TO ALL SPE CHAPTERS AND OTHER ORGANIZATIONS THAT SUPPORTED SCHOLARSHIPS IN 2019. TOGETHER, THEIR SUPPORT TOTALED \$77,250 IN SCHOLARSHIP DOLLARS.

- Automotive Division
- Blow Molding Division
- Composites Division
- Detroit Section
- Extrusion Division
- Flexible Packaging Division
- Injection Molding Division
- Polymer Modifier & Additives Division
- Product Design & Development Division/ Mid-Michigan
- Thermoforming Division
- Thermoplastics Elastomers Special Interest Group
- Thermoplastics Materials & Foams Division
- Western Plastics Pioneers, Inc.

FOR A FULL LISTING OF OUR SCHOLARSHIPS, PLEASE VISIT WWW.4SPE.ORG/SCHOLARSHIPS



"I'm in my senior year at UMass Lowell studying Plastics Engineering and I work as a lab research assistant. Academic research has given me an appreciation for the impact polymer science has on our lives. SPE has not only served as a reservoir of valuable information for research and academics but also as a platform to build my professional network. I will continue my studies at UMass Lowell working toward a doctorate in Materials Science specializing in bio-materials and medical devices. My sincerest gratitude to SPE for their generous scholarship support."

SIDDHANT IYER

*Harold Giles Composites Division, Polymer Modifier & Additives Division, Thermoplastic Materials & Foams Division Scholar
UMass Lowell senior studying Plastics Engineering*

“

I have been actively involved with SPE at Pittsburg State since my freshman year where our plastics professors told us about the outstanding scholarship opportunities. I cannot thank the SPE Foundation, the Thermoforming Division, and the Polymer Modifiers & Additives Division enough for their very generous awards. SPE supports its future professionals unlike any other, and it reaffirms my decision of pursuing plastics every day.



LEXINGTON PETERSON

Pittsburg State University Senior dual majoring in Plastics Engineering Technology and Polymer Chemistry

“The SPE Thermoforming Division awarded five scholarships valued at a total of \$10,000 in 2019. The recipients were particularly impressive, and we see interest growing in our industry. Lexington Peterson is exemplary of this interest. We were impressed with both her extra-curricular activities and part-time work as a lab assistant in the plastics industry. We are confident that Lexington will be a valuable addition to the plastics industry when she embarks on her professional career.”

MATT O'HAGAN

SPE Thermoforming Division, Student Activities Chair

“The SPE Foundation Carl Haas Scholarship has given me the ability to focus more heavily on my plastics education. With less of a financial burden, I can devote more time to my passion of injection molding and rheology.”

ADAM EVERSE

*SPE Foundation Carl Haas Scholar
Ferris State University Senior
2019 SPE Student Chapter President
Studying Plastics Engineering Technology*



“My sincerest appreciation to the SPE Detroit Section for creating the Irv Poston Scholarship. It has been incredibly validating to have my efforts in this area of my academic and professional development recognized. Your support has further advanced my research towards a career in thermoplastic composites.”

ERIK STITT

*Michigan State University, Ph.D. Candidate
Materials Science & Engineering
2019 Irv Poston Scholar*



GIVING TUESDAY

Giving Tuesday is an international day of giving and occurs on the Tuesday following Thanksgiving and Black Friday. In 2018 and 2019, the SPE Foundation invited your support for PlastiVan. Both years, your generosity has exceeded our goals and gifted PlastiVan to hundreds more students!

See what your Giving Tuesday support made possible:

2018

\$9,315
total raised


1,240+
students impacted

38
donors



2019

\$10,509
total raised


1,400+
students impacted

37
donors



#GI~~VE~~INGTUESDAY





Beaumont Technologies encourages and values education in the plastics industry from today's youth through practicing professionals. Nice work, SPE and PlastiVan. Keep up the great work.

– John Beaumont/Beaumont Technologies

Plastics are an important part of the solution to mitigating climate change. Educating our youth to the benefits of responsibly using plastics now and in the future is very important.

– Lawrence & Agnes Drzal

It costs \$7.50 per student to bring PlastiVan into a classroom. Gifts large and small help us spread the valuable lesson about the importance of plastics in our world in a fun, educational way. Thank you to everyone who chose to support PlastiVan on Giving Tuesday in our mission to *change the perception of plastics one classroom at a time.*

The funds donated on Giving Tuesday helped PlastiVan visit Scappoose Middle School in Oregon to pilot the new PlastiVan Sustainability Curriculum. The middle school program highlights marine debris, biopolymers, and mechanical and advanced/chemical recycling. Students are educated about their community's recycling programs and are trained how to recycle so they can become sustainability ambassadors at home and in school.



A special thanks to the Plastics Industry Association members, whose individual donations totaled a gift of \$2,950 to our 2019 Giving Tuesday campaign.



changing the perception of plastics one classroom at a time

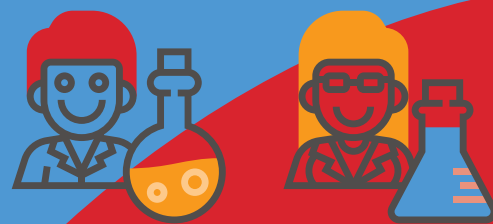
Sponsored in part by **Braskem**

PlastiVan is a fun, hands-on educational program that introduces students to plastics science and teaches them the value plastics bring to our world.



16 STATES VISITED
91 CITIES
169 total visits

121 schools, universities, STEM fairs and corporations visited



24,535 STUDENTS
experienced PlastiVan® in 2019

PLASTIVAN INSPIRES STUDENTS TO SEEK A CAREER IN PLASTICS

“

“Thank you for visiting all 7th grade classrooms in Bay City, as part of our common STEM Experiences within the district. **Through your collaborative efforts, our students have benefitted with positive classroom experiences to help them make real content and career connections in the areas of Science, Technology, Engineering, and Math.** Your efforts reached over 550 seventh grade students this year!”

–Stephen C. Bigelow, Ph.D.
Superintendent, Bay City Public School District



“John Glenn students have enjoyed over ten years of PlastiVan visits and have had several of our students attend Ferris State University and obtain plastics/rubber-related degrees. **We don’t do enough to expose kids to career opportunities at the high school level, but the PlastiVan does just that,** educating my students about the great plastics careers available. I hope the program continues for YEARS!”

–Sandy Schafer, Chemistry Teacher
John Glenn High School, Bay City, MI

“After seeing the PlastiVan Program my junior year at John Glenn High School, I decided to go to Ferris State University for a Plastics Engineering Technology degree. I’m excited to be part of the plastics industry.”

–Carter Doran, Ferris State University,
Freshman studying Plastics &
Polymer Engineering Technology



THANK YOU TO OUR GENEROUS 2019 PLASTIVAN® SPONSORS:

Arburg
BASF
Bay Mills Community College
Bekum America
Braskem
Cascade Engineering
Charter NEX Films
Chevron Phillips Chemical
Chicago SPE Educational Foundation
Davis-Standard, LLC
Donald Swiat PlastiVan Memorial Fund
Dri-Air Industries, Inc.
Fabri-Kal

Freudenberg Household Products
Greenville County Schools
iD Additives
JM Polymers
John Deere
John Grundy PlastiVan Memorial Fund
LB Systems
Milwaukee SPE Education Foundation, Inc.
Plastics Industry Association
Polymer Alliance Zone
Plastics Pioneers Association
Royal Technologies
Sekisui-SPI

SPE Automotive Division
SPE Blow Molding Division
SPE Chicago Section
SPE Cleveland Section
SPE Color & Appearance Division
SPE Composites Division
SPE Detroit Section
SPE Thermoforming Division
SPE West Michigan Section
SPE Vinyl Plastics Division
Weener Plastics
Wittman Battenfeld
XTO Energy, Inc.

The SPE Color and Appearance Division generously donated \$35,000 to PlastiVan in 2019. Combined with their 2018 gift of \$17,500, their support over two years of \$52,500 provided a PlastiVan visit to 30 classrooms, bringing the exciting world of plastics to thousands of students. Thank you, Color and Appearance Division, for this meaningful impact toward changing the perception of plastics one classroom at a time. And a big THANK YOU for committing to another \$35,000 for 2020!



The 2018–19 school year was the third consecutive year Chevron Phillips Chemical supported PlastiVan. We were excited that over 2,500 students in 12 schools in communities we call home were inspired and introduced to hands-on STEM learning. At Chevron Phillips Chemical, education and workforce development are the cornerstones for our community involvement commitment. Our support of PlastiVan furthers our commitment as a neighbor of choice and provides students an enriching experience that guides and informs their educational careers.



The kids love the chemistry and hands-on interaction. PlastiVan promotes learning and interest in science but also gives students truthful and educational insights to the benefit of plastics in our daily lives.

– Jon Ratzlaff, Polyethylene Technical Services,
Chevron Phillips Chemical in Bartlesville



Loved the presentations! The PlastiVan Educator taught the students about recycling, helped close the loop on the recycling process and really broke down the chemistry of plastic in a way students could relate and understand.

– Wendy Irwin, Community Relations Liaison in Sweeney/Old Ocean Facilities



Our members are excited to support the PlastiVan Program as a vehicle to further the success of the plastics industry. PlastiVan's unique program reaches elementary, middle and high school students and is the only non-profit educating our youngest next generation of plastics professionals. Support of PlastiVan through the Section and its Educational Foundation is the easiest and most effective outreach in Illinois.

– SPE Chicago Section Board of Directors



THANK YOU, BRASKEM!

Braskem's annual commitment of \$30,000 to be a Sustaining Sponsor supports ongoing program improvements including the new PlastiVan Sustainability Curriculum, professional development and training for PlastiVan educators, classroom materials, and program expansion. Braskem also sponsored five PlastiVan visits in 2019 directly impacting over 700 students.

GRANTS

FIVE 3D PRINTERS AWARDED

St. Louis, MO
Skokie, IL
St. Paul, MN

New Richmond, WI
Carthage, MO

\$17,500

THERMOFORMING DIVISION GRANTS

Ferris State University
Western Washington University

\$19,820

FOUR GRANTS GIVEN TO SCHOOLS AND UNIVERSITIES TO SUPPORT PLASTICS EDUCATION & WORKFORCE DEVELOPMENT

Kennedy Middle School Engineering & Technology
Plastics Manufacturing Program, Germantown, WI
Schoolcraft College, Livonia, MI
Monash University, Victoria, Australia
SPE Philadelphia Section, Franklin Institute Chemistry Fair

11 GRANTS
awarded
\$43,653 TOTAL

Steven Ploeger understands the value of giving back to an industry that has served him well. His generosity allowed the SPE Foundation to grant a 3D printer to Carthage Intermediate Center in Carthage, MO. Steven and Greg Nagel, partners at Select Plastics, and their management team work to make their employees' lives better, as well as enhancing their communities, customers and industry partners lives and businesses. Giving is fundamental for their company.

Steve recently made another generous donation on behalf of the Select Plastics family and its customers which allowed the PlastiVan to visit a school in need of sponsorship. When asked why he supports the work of the SPE Foundation, Steve replied, "To whom much is given, much is expected."



Receiving this 3D printer has allowed my students to use 3D printing and modeling to be creators. I am so thankful to be able to put this technology in the hands of 6th graders and allow them to begin solving real world challenges with a tangible product. My students are problem solvers who are excited and engaged with their learning. Thank you!

– Heather Woodall, Carthage Intermediate School, MO



YOUR WORK MATTERS

With your support, the SPE Foundation educates, inspires, and fosters our future workforce, carrying forward the important work you do.

24,535 STUDENTS EXPERIENCED PLASTIVAN® IN 2019

\$113,250 IN SCHOLARSHIPS AWARDED TO 46 STUDENTS AT 27 COLLEGES AND UNIVERSITIES

37 DONORS RAISED \$10,509 FOR PLASTIVAN® ON GIVING TUESDAY, SUPPORTING 1,400+ STUDENTS

\$38,000+ RAISED FROM MEMBERSHIP RENEWAL DONATIONS

\$43,653 TOTAL GRANT DOLLARS AWARDED

**THANK YOU FOR SUPPORTING
& INSPIRING FUTURE PLASTICS PROFESSIONALS**

For more information, contact us at foundation@4spe.org