Polymer Valley News

The Newsletter of the Akron Section of the Society of Plastics Engineers
Our 57th Year of Education and Service to the Plastics Industry

Newsletter Contents

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Technical Meeting

Monday, September 14, 2015 5:30 p.m.

> Hilton Inn 3180 West Market Street Akron, Ohio 44333

> > BRIC

BIOMIMICRY RESEARCH AND INNOVATION CENTER

Costs, Schedules, Reservations

Member and/or guest Retired Student New Member - first meeting	\$25 \$20 \$5 Free
Social / Networking / Bar 5:30 Dinner 6:00 Program after dinner - 6:45	p.m.
Reservations must be in by noo Friday, Sep. 11 and can be mad Bob Wegelin at robert.wegelin@att.net or	
330-414-1498 Please be sure to include the company affiliation of each atte including dietary restrictions.	ndee

Leveraging 3.8 Billion Years of Innovation

Emily Kennedy - Biomimicry Fellow University of Akron







See page 3 for presentation abstract and Ms. Kennedy's biography







Akron Section SPE Members:

The Board of Directors of the Akron Section and I welcome you to our 2015-2016 professional activities. With the support of Rik Keeley from the Cleveland chapter, we have planned a full program of technical and social meetings for our enlightenment and enjoyment.

We have a great program for our monthly Akron and Cleveland Section members. All meetings will be held jointly with the Cleveland Section except for our separate Award Nights. You will find program details in the pocket calendar sent under separate cover. Note that meetings will be held in the Akron Fairlawn Hilton on West Market Street on the second Monday of each month at 5:30 p.m. unless otherwise indicated.

Some highlights of our coming year:

We start the year on September 14 with an exciting presentation on a new field of study called Biomimicry. We have one of the first three doctoral fellowship students from the University of Akron describing this exciting new field of science that studies how we can learn from the experts in Nature to solve problems.

Starting on Tuesday, October 13, the Akron Section will partner with the Vinyl Plastics Division for the first time to host Vinyltec 2015. Tuesday's workshop will be followed with two days of presentations. You will hear the latest in vinyl materials, applications, processing, design and global marketing.

On January 11 we will host a joint meeting with ACESS (a consortium of scientific and engineering societies in the Akron area) with a presentation by a former astronaut from NASA on extreme engineering and our plans for Mars.

Our first scheduled meeting is coming up quickly - please call or email Bob Wegelin right away at 330-414-1498 or at robert.wegelin@att.net

If you would like to participate in the leadership and decision making, please join us at the board meetings. This year, board meetings are generally scheduled the first Monday of the month at 5:30 p.m. in the conference room of the UA Polymer Engineering Academic Center. Please contact me for details.

I'm looking forward to meeting you at an upcoming Akron SPE event.

Keith Pelfrey, President 2015-2016 Akron Section of SPE 330-255-6557 PelfreyK@GOJO.com



Leveraging 3.8 Billion Years of Innovation

Life first appeared on our planet 3.8 billion years ago. Since then, evolutionary processes have been vetting survival strategies. Failures are fossils and successes are represented by the 10+ million species inhabiting Earth today. In essence, nature is a huge pool of free R&D. Biomimicry – sustainable innovation through emulation of biological forms, processes, patterns, and systems – is based on this idea. Think Velcro, a non-toxic, glue-less adhesive inspired by how burrs stick to animal fur. Emily Kennedy, representing the first cohort of Biomimicry Fellows at the University of Akron, will share how some of nature's best ideas have been repurposed to solve human challenges, and how Northeast Ohio is rapidly becoming a hub for biomimetic innovation thanks in large part to the efforts of Great Lakes Biomimicry Collaborative.

Speaker Biography

Emily Kennedy - Biomimicry Fellow University of Akron

Emily has a BA in International Relations (Minor: Environmental Studies) from Colgate University. She is currently pursuing a PhD in Integrated Biosciences at the University of Akron as a member of the university's first cohort of Biomimicry Fellows.



Emily's graduate studies are sponsored by GOJO, Industries, Inc., and she spends two days a week embedded in GOJO's R&D department supporting sustainable product innovation inspired by nature. She's been an active contributor on numerous innovation projects including development of energy-efficient soap and sanitizer dispensing systems and topical treatments for use in long term care settings. For her dissertation, she is generating and testing theory about best practices for biomimetic innovation; with a particular focus on what works in business contexts. Emily believes a procedural template will channel the biomimetic innovation process in a manner that boosts outcome value.





- · Volumetric, Gravimetric, Belt & Screw Feeders
- · Bulk Bag Systems
- · Scale Systems



Vacuum Dryers



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· Delumpers Shredders · Size Reduction



Densephase Pneumatic Conveying



· Vibratory Feeders · Bin Activators



Richfield: (330) 659-3157 Perrysburg: (419) 874-1359



Directions to Akron Hilton, 3180 West Market Street, Akron, Ohio 44333

From Cleveland Hopkins Airport

Take 480 East to I-77 South. Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving South on I-77

Exit at #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.

Driving North on I-77 (From Akron/Canton Airport)

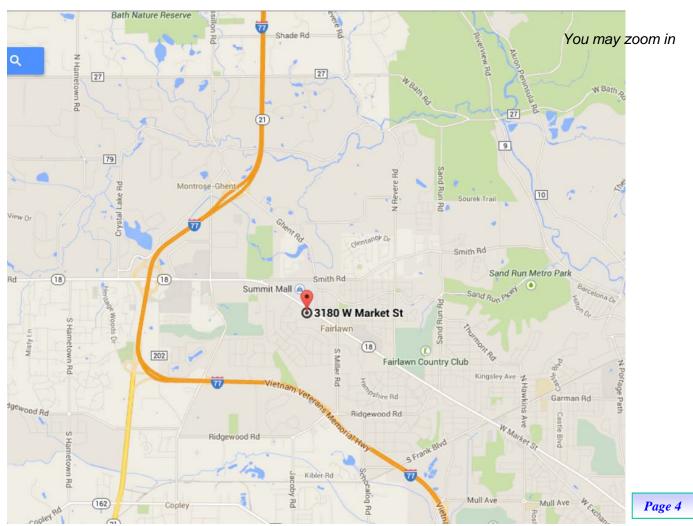
Exit at #133 – Ridgewood/Miller Rd. Go straight through the exit for approximately 2 miles. Turn left on Market Street (2 blocks). The Hotel is located on the left

Driving North or South on I-71

Take Route 18 – Medina Exit #218. Drive east on route 18 approximately 10 miles. The Hilton will be located on the right side opposite the Summit Mall

Ohio Turnpike

Take the Cleveland/Akron I-77 Exit #173 off the Ohio Turnpike. Take I-77 south to exit #138 to Fairlawn. Turn right on Ghent Rd. Follow south for two miles. The Hilton is at the intersection of West Market Street (Rt. 18) and Ghent Road. Turn Right on West Market Street. Hotel is located on the left.





Councilor's Corner

Councilor Update: SPE Councilors meeting at Antec

Global membership growth continues to be a major concern and focus moving forward with special attention on increasing Student Chapter membership and involvement.

Russell Broome is actively visiting sections and Universities around the country to help grow Student Chapter activity.

New Executive Committee members were voted on and confirmed.

Discussion: There was a break-out session to brainstorm "how we would like SPE structured as far as Executive Committee and Councilors"

- Reducing the size of the EC is being considered
- Reducing the number of councilors is being considered having regional councilors versus every section.

Bylaws were reviewed and updated.

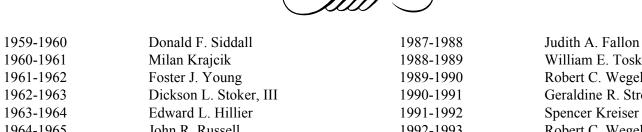
Advertiser Index Akron Polymer Training Center 9 **David Industrial Sales** 3 **Dover Chemical** 7 Harwick Standard 5 7 Polysort 3 Struktol Picture your ad here And also on our updated web site: www.akronspe.org

Technical Assistance Initiated On Akron SPE Web Site

Do you have a technical question on plastics, polymers, rubbers, etc. Our web site now has a place where you can detail your question and the Akron SPE Board will use their collective knowledge and resources to answer your questions. Check it out at http://akronspe.org/contact/. If you post a question we will post it in the following newsletter along with the answer.

Akron Section SPE Past Presidents

57 years of excellence



1939-1900	Donaid F. Siddan	1907-1900	Juditii A. Failoii
1960-1961	Milan Krajcik	1988-1989	William E. Tosko
1961-1962	Foster J. Young	1989-1990	Robert C. Wegelin
1962-1963	Dickson L. Stoker, III	1990-1991	Geraldine R. Stromquist
1963-1964	Edward L. Hillier	1991-1992	Spencer Kreiser
1964-1965	John R. Russell	1992-1993	Robert C. Wegelin
1965-1966	John R. Russell	1993-1994	Anthony F. Dean, Jr.
1966-1967	Clyde H. Jones	1994-1995	Wayne Decamp
1967-1968	Alan Corry, Jr.	1995-1996	Melanie Stewart
1968-1969	Bernard M. Saffian	1996-1997	Kevin Hershfield
1969-1970	Harold R. Schick	1997-1998	David Schultz
1970-1971	Robert G. Hills	1998-1999	John Raab
1971-1972	John J. Satterfield	1999-2000	Gary Taylor
1972-1973	Alexis M. Gross	2000-2001	Kevin Malpass
1973-1974	Francis J. Maurer	2001-2002	Kenneth L. Sharp
1974-1975	Leverett A. Anderson, Jr.	2002-2003	Joseph E. Pfeiffer
1975-1976	Robert M. Hershey	2003-2004	Robert C. Wegelin
1976-1977	Richard L. Fleshman	2004-2005	Joseph Mattingly
1977-1978	David Curtis	2005-2006	Lloyd A. Goettler
1978-1979	John A. Zelek, Jr.	2006-2007	John Woodside
1979-1980	Gerald W. Whitnable	2007-2008	Vivian Malpass
1980-1981	Kathleen N. Bechter	2008-2009	Joseph Mattingly
1981-1982	Victor E. Giuffrida	2009-2010	David A. Katz
1982-1983	James Steiner	2010-2011	Lloyd A. Goettler
1983-1984	Robert G. Hills	2011-2012	David Schultz
1984-1985	Anthony F. Dean, Jr.	2012-2013	Kevin Malpass
1985-1986	Gene Buser	2013-2014	Dan Jones
1986-1987	Harry J. Barth	2014-2015	Vivian Malpass
			· · · - · · ·

2015-2016

Keith Pelfrey

The Akron Section is in need of New Board Member.

Please consider becoming a Board Member to help support your Section.

Contact anyone currently on the board (see page 12)

if you are interested.
Thank You!



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Contact us today for a <u>FREE</u> web site audit. Tel. 330.665.5918 ext. 2104 E-mail John Inama at johni@polysort.com





Presented by the Society of Plastics Engineers

Vinyl Plastics Division and Akron Section

Hilton Akron-Fairlawn 3180 West Market Street Akron, Ohio 44333

A Ct ...



Visit

https://www.etouches.com/ehome/122014

Personal Registration: Submit form or copy for EACH person registering. Mailed advance registration must include full payment and be postmarked by September 25, 2015.

Dafana

	Before	After
	Sept. 25	Sept. 25
Vinyltec Pre-Conferen	ice PVC Con	npounding
Workshop & FULL C	onference - C	October 13-15
Member	\$700.00	\$775.00
Nonmember *	809.00	884.00
Vinyltec Conference -		
Member	\$500.00	\$575.00
Nonmember *	609.00	684.00
Vinyltec Pre-Conferen Workshop ONLY - Oo		npounding
Member	\$250.00	\$325.00
Nonmember *	359.00	434.00

Lunch will be provided for all at Tuesday Workshop

Emeritus/Student

\$225 for Pre-Conf. Workshop & Full Conference \$150 for Full Conference Only \$75 for Pre-Conference Workshop Only

Speaker/Moderator
No charge on day of presentation
\$150 for remainder of Conference

*Non-members registration fee includes one year membership dues

Tabletop or Sponsorship Reservations:

These MUST include full payment and be postmarked or received online by September 25, 2015. Sponsors are appreciated and will be well recognized. You can register at

https://www.etouches.com/ehome/122014 or contact Sue - swojnicki@4spe.org 203-740-5420

or Kevin - kevin.malpass@diebold.com 330-490-4743

Tabletop Exhibitor - 30 available \$1,000
Tabletop for Full Conference includes 1 person
to Vinyltec Conference and Lunch
Additional Conference registrations are \$200 each

Platinum Sponsorship - 2 available	\$6,500
Includes evening reception/cocktails, table,	includes
additional signage and recognition	Tabletop
** Free Advertising	exhibit
Akron SPE Newsletter and web site**	

Gold Sponsorship - 2 available
Lunch Sponsorship on Wednesday, 10-14
Lunch Sponsorship on Thursday 10-15
Includes signage on each table
where the Luncheon is held plus
additional signage and recognition
** Free Advertising
Akron SPE Newsletter and web site **

Silver Sponsorship - 2 available
Food Break on Wednesday, 10-14
Food Break on Thursday 10-15
Includes signage on each
Nutrition Center (2 total)
plus additional signage and recognition
** Free Advertising
Akron SPE Newsletter and web site **

Bronze Sponsorship - 1 available \$500 Includes signage & recognition for Pre-Conference Workshop ONLY Tuesday, 10/13

Many sponsorships have already been assigned – a few are still available.

The Akron Section of the Society of Plastics Engineers, along with the Vinyl Plastics Division of the SPE, will be hosting a conference this fall that highlights a most ubiquitous polymeric material. This conference will be held at the Hilton hotel in Fairlawn on October 13-15, 2015. The subject of this conference will be *Vinyl*, more commonly known as PVC. This material was front and center in Akron, Ohio in 1926 with the advent of *Plasticized or Flexible PVC* by B.F. Goodrich's, Dr. Waldo Semon, who at that time was in the process of pioneering an industry.

The conference has been titled "Enabling Technologies for the Future of the PVC Industry" which includes a Pre-Conference Program on "PVC Compounding Technology and Materials" and will be presented by the Vinyl Plastics Division.

We are excited to provide a short history of how this great industry has morphed over the last many years, and how pivotal Akron was during this development with the aid of Dr. Waldo Semon, and the B.F Goodrich Company.

It all started in 1870, on the soil here in Akron, Ohio when Dr. Benjamin Franklin Goodrich founded the B.F. Goodrich Company. Shortly thereafter, an engineer from the Northwest Territory, Dr. Waldo Semon, was highly instrumental in jump-starting the vinyl industry. Dr. Waldo Semon, known as "A Man of Ideas" is credited as the inventor of Plasticized Polyvinyl Chloride, even though PVC had been discovered in Europe at a much earlier date. Dr. Semon was able to bring a practical nature to the use of PVC and developed the cotton covered fire hose, and later, around 1926, the waterproof rain coat and PVC coated umbrella. Dr. Semon informed that even though scientists had been studying vinyl polymers for more than 50 years, no commercial use had ever been developed for these compounds, because process and handling was of the utmost importance. He informed in a historical facts book that "he was much happier when he could see practical results of his labor". Innovation, according to Waldo Semon, "is not just one thing from one person. It is not just research. It is not just development. It is not just marketability. It is a combination of all these things and it's a dedicated group of people all contributing to an idea."

During 1930-1970's, the B.F. Goodrich Company continued on with a reduced interest in PVC. They instead focused on their tire expertise during the big war periods (WWI & WWII), which Dr. Semon also played a large role in. It was not until the late 60's and early 70's that the focus again shifted to vinyl. The early markets found vinyl being used in electrical insulation, flooring tiles, garden hose, draperies and luggage. At that time, all other tire companies located in Akron had limited involvement in the PVC market. This included Goodyear, which in 1968 promoted the "instant do it yourself floor" and Neothane roofing, that supplemented their flooring business. In addition, Goodyear had a full line of household products including vinyl garden hoses, shower curtains, garment bags and rain coats made of Pliofilm. They also promoted their Pliotuf line of nitrile PVC products, all supplied from vinyl from their Niagara Falls, NY plant. In the 1970's and 1980's, General Tire jumped in with both feet and augmented their tire business as GenCorp and developed their business dealing in flooring and wall covering, which was all supported from their own vinyl plant in Niagara Falls, NY. Firestone also promoted their own offerings in the 1990's, with their Building Products Company, that marketed PVC roofing membrane and vinyl monofilament.

It is easy to understand that all the tire factions jumped on the band wagon in those early days and found their own niche market so they too could be listed as experts in this new polymer. It is surprising to note that for the most part, B. F. Goodrich, who started this fray, ended up being the company with the most longevity in the PVC business.

In the late 1980's, B.F Goodrich went into a joint venture with Uniroyal Tire that would leave PVC, specialty chemicals, and aerospace to expand their own horizons. Once again, B.F.Goodrich continued further development of compounds and processes and jumped into action during the late 80's and developed improved PVC compounds for the pipe, siding, and floor covering markets.

In 1993, after a wild run at these booming markets, Geon spun off from B.F. Goodrich and became the 3rd largest PVC resin supplier in North America. Today, Geon Performance Materials is owned and operated by PolyOne, after a merger between Geon and M.A Hanna in 2000. They are headquartered in Avon Lake, Ohio. Shortly after PolyOne purchased Geon, the resin-producing portion of their business was spun off.

The PVC industry owes a great debt of gratitude to the man, Dr. Waldo Semon, who filed for US PVC Patent #1,929,453, and who stated he, "at his heart - an engineer interested in science" was ultimately nicknamed the "man who wrapped the world in Vinyl".

David R. Schultz, Technical Director Harwick Standard Distribution Corporation Co-Chair – Vinyltec 2015 – Akron, Ohio

Vinyltec 2015 sponsor preview













Goals for Akron Section SPE for 2015/2016

- Work closely with the Cleveland Section to promote attendance at Joint Section meetings and develop a diversified Program for 2015-16
- Increase involvement with U Akron Student Chapter to attend Section Meetings and functions and achieve better use of our website, Linked In and Face Book
- · Give better recognition to new members
- Increase Section membership by at least 1% by better promotion of Section value
- Work closely with the Vinyl Plastics Division to run a very successful Vinyltec TOPCON in October 2015
- Continue and expand on joint Society meetings and activities, such as ACESS, ACS and others
- Continue our recruitment efforts to add new Board members

The Akron Polymer Training Center (APTC) at The University of Akron provides short courses for the plastics, rubber, medical, corrosion, and adhesives and coatings industries.



APTC plastics courses include:

- Understanding Plastic Material Properties in Analyzing and Preventing Product Failures
- Making Properties and Profits: Twin Screw Extrusion Seminar
- Complete Injection Molding
- Polymer Compounding, Formulating and Testing of Plastics, Rubber, Adhesives and Coatings
- Rubber and Plastics Failure Analysis Physical and Chemical Analysis Techniques
- Plastic Material Selection and Testing
- Plastic Part Failure Analysis
- Chemistry and Technology of Polymeric Materials used in Medical Devices
- Validating Medical Molding Processes and Parts
- Color Theory and Applications

University of Akron

Visit uakron.edu/aptc for a complete list of APTC courses.

Customized training programs are also available. Contact APTC at 330-972-8303 or lbettinger@uakron.edu



Programs for 2015 / 2016

Jan. 11 **NASA** Sept. 14 **University of Akron** To Mars and Back – Extreme Eng. Biomimicry - Leveraging 3.8 Billion -- Hilton Fairlawn - Joint with ACESS* Years of Innovation -- Hilton Fairlawn - Akron* Feb. 8 **RTP** VLF – Very Long Fiber – Metal to Oct. 12 **SIPA** of Italy Plastic Replacement Extreme Syncro, The World's First -- Hilton Fairlawn - Cleveland* Injection-Compression-Stretch-Blow Molding (ICSBM) System Mar. 14 Case Western Reserve Univ., Tour -- Hilton Fairlawn - Akron* Solar Power -- Cleveland* Oct. 13-15 Vinyltec TOPCON Apr. 11 **Industry / Teacher Collaboration** -- Hilton Fairlawn - Akron* SPE / University of Akron What do Polymer Engineers Do? How Nov. 9 **Beaumont Technologies** Do We Get the Word Out to Students True Melt Flow of Polymers -- Hilton Fairlawn - Akron* -- Hilton Fairlawn - Cleveland* May 9 **Akron Section Awards Night** Dec. 7 **Holiday Celebration** -- Hilton Fairlawn – Akron SPE – History and Plans for the Future -- Taverne of Richfield - Joint* Meetings are joint with Cleveland

Akron Section Board of Directors

330-255-6557 T Keith Pelfrey GOJO Industries 330-255-6114 F President/Chair, Technical Program PelfreyK@GOJO.com Robert Weiler 330-283-9024 T Amfine Chemical Corp. rweiler@amfine.com President/Chair-elect, Membership, **Technical Program** Dave Schultz 330-798-6535 T Harwick Standard Dist. Corp. 330-798-9328 F schultzd@harwickstandard.com Secretary Gary Taylor 330-419-4380 T Retired taylorgandc@gmail.com Treasurer, House **Kevin Malpass** 330-490-4743 T Diebold, Inc. 330-490-4788 F Councilor kevin.malpass@diebold.com Vivian Malpass 330-342-1120 T Tek-Mark International 330-342-1134 F Past-President. vivian.malpass@tek-mark.com VINYLTEC 2015, TOPCON 2016 330-338-8029 T Dan Jones Prior Past-President, daniel.h.jones@sbcglobal.net Director, Awards

Open

Student - U Akron Polymer Eng. Director, Student Chapter SPE Liaison Younjin Min 330-972-5167 T Student - U Akron Polymer Eng. 330-258-2339 F Director, Student Chapter Advisor ymin@uakron.edu

Section with host section denoted by *

Bob Wegelin 330-414-1498 T Retired robert.wegelin@att.net Director, Education Foundation, House

Tony Dean 330-929-9916 T Retired - Director, Public Interest, francis@neo.rr.com

Advertising

Kevin Cavicchi 330-972-8368 T U Akron Polymer Engineering 330-258-2339 F kac58@uakron.edu Education

Tom McQuaide 330-630-7113 T A. Schulman 330-630-3349 F Director, Education Thomas McQuaide@aschulman.com

330-962-5299 T Joe Mattingly 330-896-7379 F Goodyear Tire & Rubber Co. Director joe@mattingly.us

Nicole Brostowitz 330-202-4466 T Seaman Corp. nbrostowitz@seamancorp.com

Director, Internet Communications

Jenny Digiantonio 330-806-6214 T Retired jenny.akronspe@aol.com Newsletter Editor

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Akron Section Society of Plastics Engineers Educational Foundation



1-16

The Akron Society of Plastics Engineers Educational Foundation operates exclusively for the benefit of and to carry out the purposes of the Akron Section of the Society of Plastics Engineers, which is to promote scientific and engineering knowledge relating to plastics by making educational scholarship grants to deserving students in the field of plastics engineering and related subjects. The Organization is supported primarily by contributions from the Akron Society of Plastics Engineers, the Society's individual members and corporations like yours affiliated with the polymer industry.

Since the inception in 1988, the Akron Society of Plastics Engineers Educational Foundation has grown to its current position through the hard work of many volunteers and the generosity of the local business community. Over the twenty-seven years that the foundation has been in existence, it has provided scholarships to over 250 young men and women totaling in excess of \$320,000 to assist them in furthering their careers in the polymer industry.

Our goal is to continue to grow the assets of the Foundation in order to increase the number of scholarships awarded, as well as the size of the awards, and to do so in perpetuity. In doing this, we hope to be able to contribute to the supply of well-trained individuals to support the growth of the polymer industry in the Northeast Ohio area today and well into the future.

When the Foundation began its fund raising activities in 1988, we offered those companies who contributed \$30,000 a scholarship in their name. To date we have five named scholarships, Newell/Rubbermaid, Goodyear, Ken Sharp Memorial and Jim Steiner Memorial scholarships. We are asking your company to help with the growth of well-trained individuals in the local polymer industry. Please print this page, fill out the information and mail it to Bob Wegelin, 13206 Kaufman Ave. NW Hartville, OH 44632.

Akron SPE Scholarship Donation Commitment [] \$30,000 lump sum. [] \$10,000/yr. next 3yrs. [] \$5,000/yr. next 6 yrs. [] Other: Company name: Contact person: Ph. # or email:

Our named scholarship donors are recognized at the annual Awards Night of the Akron Society of Plastics Engineers. We invite you to present your tax deductible donation at our Awards Night, which is scheduled on May 9, 2016.

We are looking forward to your support of this very worthwhile cause by your fine company. Please contact me at (330) 414-1498 with any questions. Thank you for your consideration.

Sincerely,
Bob Wegelin, Foundation Chair
Akron Section Society of Plastics Engineers, Educational Foundation



Who Can Help You Society of Plastics Engineers

6 Berkshire Blvd., Ste 306, Bethel, CT 06801 Phone: +1 203.775.0471 www.4spe.org

		T	
Academic Outreach	Marjorie Weiner	+1 978.618.5496	mweiner@4spe.org
Annual Awards	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
ANTEC Booth Sales	Chuck Herrholtz	+1 770.576.4974	cherrholtz@naylor.com
ANTEC Conference Management	Barbara Spain	+1 203.740.5418	bspain@4spe.org
ANTEC Paper Submission	Barbara Spain	+1 203.740.5418	bspain@4spe.org
ANTEC Conference Sponsorship	Barbara Spain	+1 203.740.5418	bspain@4spe.org
The Chain	Sarah Sullinger	+1 203.740.5425	ssullinger@4spe.org
			customerrelations@4sp
Change of address	Customer Relations	+1 203.740.5403	<u>e.org</u>
Communications	Sarah Sullinger	+1 203.740.5425	ssullinger@4spe.org
Communications Excellence Award	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
Conference Sponsorship (TopCons)	Sue Wojnicki	+1 203.740.5420	swojnicki@4spe.org
			customerrelations@4sp
Dues Renewals and New Members	Customer Relations	+1 203.775.0471	<u>e.org</u>
	+1 888.491.8833		customerservice+6463
	At prompt please pres	ss 4.	9@support.boxwoodte
Employment Advertising	The extension is 1063		ch.com
Fellow & Honored Service			
Nominations	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
Governance Liaison	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
Managing Director	Russell Broome	+1 203.740.5471	rbroome@4spe.org
Membership Processing/Questions	Customer Relations	+1 203.740.5403	membership@4spe.org
Membership Programs/Retention	Sue Wojnicki	+1 203.740.5420	swojnicki@4spe.org
Mobile App – SPE Events	Barbara Spain	+1 203.740.5418	bspain@4spe.org
Pinnacle Award	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
Plastics Engineering magazine			
advertising	Roland Espinosa	+1 201.748.6819	respinosa@wiley.com

Sections, Divisions & Special	Kathy Cahacht	+1 203.740.5430	leschacht@deno.org
Interest Group Administration	Kathy Schacht	+1 203.740.5430	kschacht@4spe.org
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Grants	Gene Havel	+1 203.740.5457	ghavel@4spe.org
SPE Industry Resource Guide		+1 800.816.6710	spe@multiview.com
Student Chapters	Scott Marko	+1 203.740.5442	smarko@4spe.org
Topical Conference Planning	Sue Wojnicki	+1 203.740.5420	swojnicki@4spe.org
Topical Conference Registration	Sue Wojnicki	+1 203.740.5420	swojnicki@4spe.org
Webinars (non.registration)	Barbara Spain	+1 203.740.5418	bspain@4spe.org
			customerrelations@4sp
Event Registrations	Customer Relations	+1 203.740.5403	<u>e.org</u>
Website Administration	Pedro Matos	+1 203.740.5438	pmatos@4spe.org

SPE MEMBER BENEFITS GUIDE

		BENEFIT	DESCRIPTION	WEBSITE LINK)//
S	NETWORKING	Business Networking Resources Local Section Affiliation Online Membership Directory Technical Affiliation	Connect to industry experts Network with members locally in over 75 countries Unlimited access provides the link to fellow members 24 Divisions represent major industry specialties	www.4spe.org/cc www.4spe.org/communities/sections www.4spe.org/membercenter www.4spe.org/communities/divisions	®
MEMBERS	MEDIA	Newsletters Plastics Engineering (PE) SPE Online Tech Focus	News & events about specific local & technical affiliations The official monthly publication of SPE Your 24/7 source for Society information Monthly electronic newsletter offering society & industry news	www.4spe.org/communities/newsletters www.4spe.org/pub www.4spe.org www.4spe.org/membercenter	
FREE TO	TECHNICAL	Online Technical Library Message Forums Special Interest Groups SPE Journals	Searchable database of technical articles & conference papers Online question & answer forum Emerging areas not currently covered by technical Divisions Read abstracts from our three technical journals	www.4spe.org/membercenter www.askpip.com www.4spe.org/communities/divisions/#sig www.4spe.org/pub/journal	
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Active membership in SPE:

- keeps you current
- keeps you informed
- keeps you connected

The question really isn't "why join?" but

WHY NOT?



Akron Section Society of Plastics Engineers

Tony Dean, Advertising Manager 330-929-9916

Website, E-Blast & Newsletter Advertising

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Please check ad size wanted. One column is 3-7/8" wide.

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Email artwork and this Insertion Order (completed) as an attachment to francis@neo.rr.com

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