



**SOCIETY OF PLASTICS ENGINEERS – CLEVELAND SECTION**

April 2018 Vol. 61 No. 8

[www.specleveland.org](http://www.specleveland.org)

Editor: [Craig Potter](#)

## Upcoming Meeting: Monday, April 9, 2018

### SPE Foundation Educational Initiatives & Plastivan Program Presented by: Eve Vitale, Director of SPE Foundations



Ms. Vitale's experience includes six years of corporate and foundation fundraising experience in the automotive and plastics industries and ten years of curriculum development and teaching.

She holds a B.S.M.E. from Oakland University and an M.S.E. with a concentration in manufacturing from Kettering University, where she is currently also the SPE Detroit Section liaison for Kettering students.

#### **Location:**

Hilton Akron/Fairlawn  
[3180 West Market Street](#)  
[Akron, Ohio 44333](#)

#### **Agenda:**

4:30 Board Meeting  
5:30 Social / Networking  
6:00 Dinner at Hilton Garden Inn  
7:00 Presentation follows dinner

**Price:** Members/Guests - \$25 / Retired - \$20 / Student - \$5

#### **Reservations:**

Reservations must be in by noon on Friday April 6 to Gary Taylor at 330-419-4380 or to [akronspe1@gmail.com](mailto:akronspe1@gmail.com). Please be sure to include company affiliation and any dietary restrictions of each attendee.

#### **Quick Clicks:**

[Directions to the Meeting](#)  
[About the Program](#)  
[President's Message](#)  
[2017-2018 Programs](#)  
[SPE Board – Officers](#)  
[SPE-Cleveland Website](#)

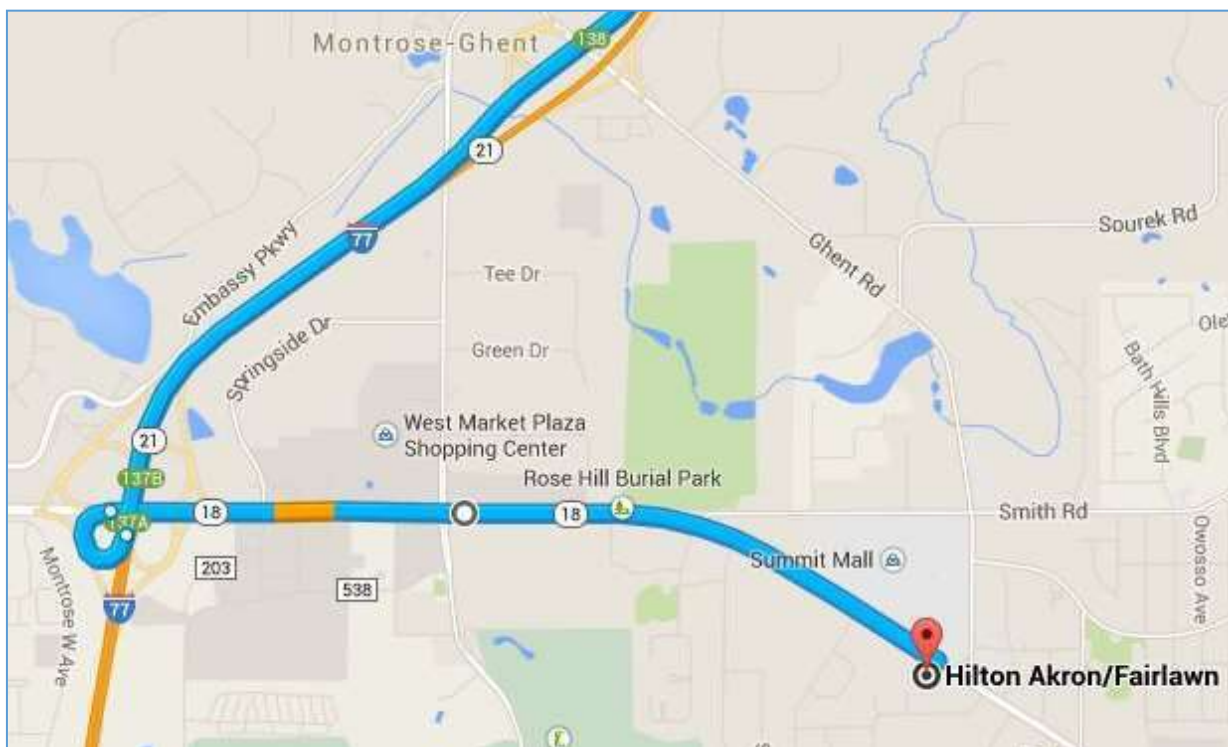
## Directions to April 9<sup>th</sup> Meeting

### Directions from Cleveland:

Take I-77 south to Exit 137A (Rte 18 East).

In 2 miles, Hilton Akron/Fairlawn will be on the right hand side across from the Mall. Parking is free in the hotel parking lot.

*(Click on the map to view in Google maps)*



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## About the Program

The PlastiVan™ Program is a great way to WOW and excite young people about the science and the vast opportunities the plastics industry has to offer. The PlastiVan program travels to schools and companies throughout North America, educating people of all ages about plastics chemistry, history, processing, manufacturing, sustainability and applications.

For more information about the PlastiVan™ Program, please contact Eve Vitale at [evitale@4spe.org](mailto:evitale@4spe.org) or (810) 814-6412.

## President's Message:



This month I want to discuss our current activities to attract new members with fresh perspectives. SPE is a historic and respected organization for polymer professionals with its start in 1942. The Cleveland section was founded soon after as the 3rd geographic section.

In the past, SPE has adapted to changes in business, technology and industry successfully. However, in the current fast-paced, global and highly reactive world of recent developments with high speed communication, a new set of techniques will be required to keep our organization relevant and vital. As with other technical communities and organizations in the Cleveland area, we have been challenged to bring young professionals into our organization.

As a result, SPE Cleveland is interacting with local universities like Case Western Reserve and examining our current activity format and schedule to shift to events that would cater to the needs and interests of people beginning their careers. We use feedback from graduate students and new entries to the job market to evolve with the changes in the technical and professional community. While we hope our efforts will be effective in bringing new members and new perspectives to our organization, I want to reach out to our current membership to ask for any experiences or insights you may have to effectively get young professionals active with our section. Please feel free to bring the discussion to me through email or start a new thread on The Chain at the SPE website. I look forward to hopefully meeting you at upcoming Cleveland events.

Ron Raleigh  
President  
SPE Cleveland



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## 2017 - 2018 SPE Cleveland Education Awards:

The NEOSEF Science Fair was held on March 13<sup>th</sup> and award winners were announced with three local high school students chosen as having the best polymer-based projects. Their names and projects were:

### 1<sup>st</sup> Place

**Caroline Pier**, St. Vincent St. Mary High Poly (ester urea)s for in-vitro Applications

### 2<sup>nd</sup> Place

**Isabella Davis**, St. Vincent St. Mary High The Effect of an Olefin Ionomer of Zinc-Neutralized Poly (ethylene-co-methacrylic acid) Shell and a Polycarbonate Core Filament on the Printability and Strength of a Complex Structure

### 3<sup>rd</sup> Place

**Tanish Makadia**, Lake Ridge Academy Thermoplastic Composites Using Carbon Fiber

In addition, the recipient of the SPE Cleveland scholarship for 2017 – 2018 is **Jeremy Stark** of Purdue University, Indianapolis campus.

More details on all recipients and their projects will be presented at the May 14 Awards Dinner. Congratulations to all.

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## March 12<sup>th</sup> Technical Meeting:

### Additive tooling for injection molding and vacuum forming processes

Manufacturing tooling made through conventional processes can be costly and time consuming, especially if changes need to be made. Most of the time, all of these parameters delay the production schedule resulting in a time crunch to meet the deadlines.

Different from 3D printing of parts, Catalysis developed a complete solution to reduce the cost and delivery time of tooling itself for injection molding and vacuum forming processes using additive manufacturing techniques as opposed to conventional subtractive methods. This is a time and cost-effective way to develop and produce prototype parts, considering how often changes are needed.

In the presentation by Darrell Stafford, President/CEO of Catalysis Additive Tooling, we learned why additive tooling is a competitive option. Different types of tooling were presented ranging from polymer to 3D printed metal as well as the use and benefit of conformal cooling/ heating for tooling in thermoplastic and thermoset plastic injection.



## Photos from the March 12<sup>th</sup> Technical Meeting



# Extrusion 2018

Cleveland Ohio – September 18 – 20, 2018  
Cleveland Convention Center

The Extrusion conference is the only conference devoted to all aspects of extrusion processing!

Conference presentations consist of general sessions devoted to technical and business issues common to all types of extrusion, followed by breakout sessions devoted to specific types of extrusion: Film, Sheet, Pipe/Profile/Tubing, and Compounding.

These presentations, together with the exhibits at Extrusion 2018, will give you unprecedented access to new technology, tips and techniques, and best practices aimed at helping you boost efficiencies at your operation.

Conference details are available at this link - <http://www.extrusionconference.com/>  
Watch this site and newsletter for a \$100 session discount for SPE Cleveland members.

## **Minutes of the March 12th Board of Directors Meeting:**

**Injection Molding TopCon:** Dan contacted the IM group and they have been too busy with NPE to work on the TopCon. The BoD has opted to wait until after NPE to discuss the urgency of the matter. As the Section has no money involved, we can be a little more flexible.

**Extrusion Magazine 2018 Event:** We have an agreement with the organizers for 2 passes to the full conference, 2 exhibitor passes, a table top booth, and \$100 off registry for Cleveland SPE members. Session will be held on Sept 18-20, 2018 at the new Cleveland Convention Center. Details to be placed in Newsletter.

**May Conference at JCU:** Ron will send the website and notice to the Board to see if they can solicit presentations. As with last year, we will need 3 presenters and a moderator. Date is May 23rd, and abstract deadline will be in April 27th.

**Case Event:** We have Dwight Morgan, M. Holland – M&A secured as speaker for our Oct event. Date, time and venue to be determined. Meanwhile we are awaiting Zhang's correspondence with Dr. Ishida regarding adding 2 more dates to make a series.

**CAD RETEC event:** CAD proposed a \$100 credit to our section for every Cleveland member that attends. We may negotiate for a booth in exchange for ads, but as we don't have any real time investment yet, their offer may be acceptable.

**Next Year's Tech Program:** We have initial feedback from Akron with Rik and John S to work on our dates and potential speakers/tours.

**Scholarship Winner:** Jeromy Stark for 2017-18. Teagan Smith possible for next year 2018-19. Ron will contact Teagan to assure he submits a scholarship application.

**Science Fair:** The event will be March 13th. Winners will be decided and notified on site. Report after the event from Dennis. Budget has a line item for the prizes already allocated. May Awards event venue will be decided after the science fair results.

**Todd W's CAD Election:** Ballots are closed from Feb and we are awaiting the results.

**Plastivan:** Dennis contacted Dave Schultz of Akron to say we would not participate this year without a Cleveland local school involved. Dave mentioned that he will continue to look.

**CTSC Attracting Young Professionals Meeting:** The meeting centered on a push for funds and for fresh ideas, and to attract members early in their careers. There was also discussion about investing in efforts to attract whole companies instead of individuals.

Jerry followed-up by explaining the National's effort at large corporations in which local sections will only benefit from potentially more attendees to the monthly events, but with no direct funds from membership.

**NPE/ANTEC:** Jerry, Zhang, Craig and Todd will be attending. We need to find out when the division board meetings are to have Cleveland members attend for exposure and to make proposals for TopCons.



**Candids from March 12<sup>th</sup> dinner meeting:**



## Candids from March 12<sup>th</sup> dinner meeting:



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## 2017 – 2018 Cleveland SPE Programs (with Akron section)

Meeting	Topic	Speaker	Company	Location
9-Apr-18	Plastics in Education	Education Initiatives	Eve Vitale	Akron Hilton
14-May-18	Awards Dinner Cleveland Section		SPE Cleveland	tba

**Watch for a preview of our new 2018 - 2019 program schedule in the May newsletter!**

### 2017 – 2018 SPE Cleveland Section Officers and Board of Directors

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