



SOCIETY OF PLASTICS ENGINEERS – CLEVELAND SECTION

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Editor: [Craig Potter](#)

Upcoming Meeting: Monday, March 12, 2018

Additive tooling for injection molding and vacuum forming processes

Darrell Stafford, President/CEO of Catalysis Additive Tooling

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

Based on this general observation, Catalysis developed a complete solution to reduce the cost and delivery time of tooling for injection molding and vacuum forming using additive manufacturing techniques as opposed to conventional subtractive methods.

In this presentation, you will learn why additive tooling is a competitive option. Different types of tooling will be presented ranging from polymer to 3D printed metal and in the last part of the presentation we will explain the benefit of conformal cooling/ heating for tooling in thermoplastic and thermoset plastic injection.

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, March 9, to Gary Taylor at 330-419-4380 or akronspe1@gmail.com. Please be sure to include company affiliation and any dietary restrictions.

Quick Clicks:

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[SPE Board – Officers](#)

[SPE-Cleveland Website](#)

Directions to March 12th Meeting

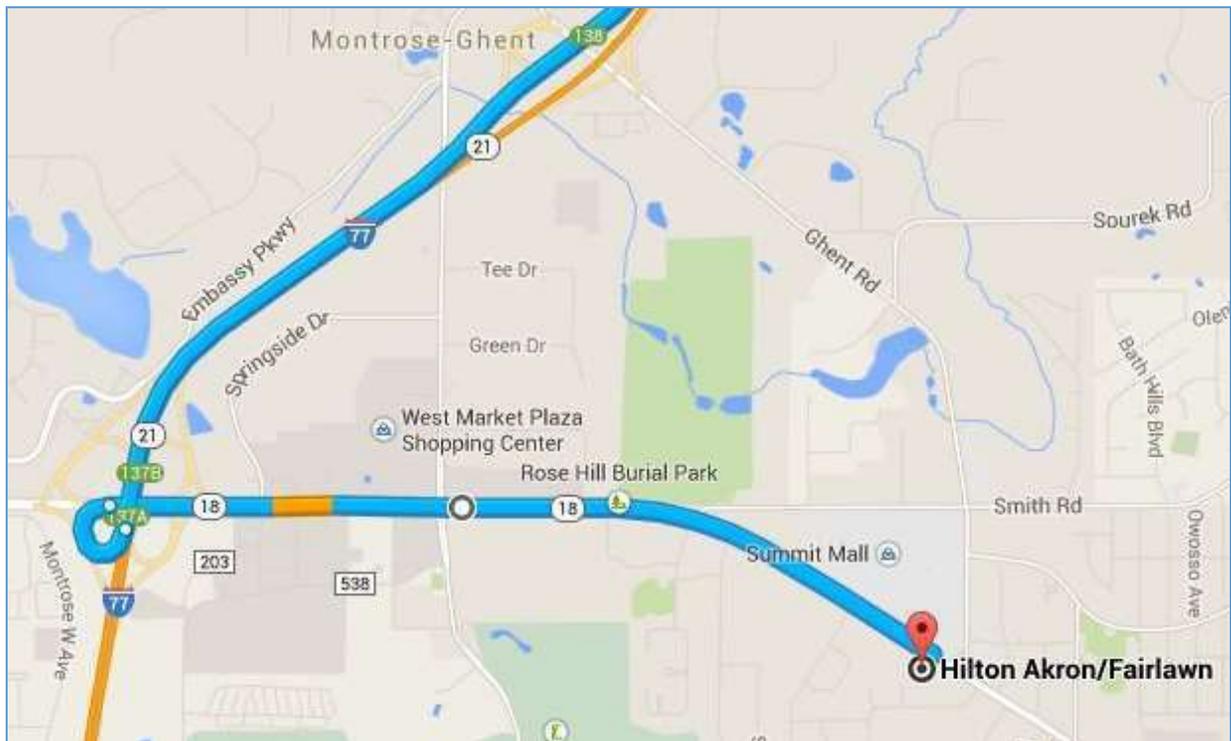
Directions from Cleveland:

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)



About the Speaker - Mr. Darrell Stafford:



Mr. Darrell Stafford worked for Honda North America in the R&D department for over 31 years and retired in 2016. For the last 5 years, he led the Additive Manufacturing effort across the board from conception and styling all the way to servicing end user parts.

Since he retired from Honda, he has been the President/CEO of Catalysis Additive Tooling which offers 3D printed tooling solutions. Using additive manufacturing tooling to produce functional parts (with customer's material) offers a significant cost reduction as well as a short delivery time. Catalysis is using an agnostic approach to select the best option to manufacture tooling for low to medium volume production for injection molding and vacuum forming process.



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President's Message:



Greetings to all our members and industry professionals. While continuing our efforts with the TopCon committee to get the upcoming Cleveland TopCons staged and prepped, we wanted to make sure that our other activities do not get lost in the mix.

We recently began a discussion with Case Western Reserve University staff to start a short seminar series for students regarding business, management and project-based subjects. This was in response to feedback found in the Plastics Engineering magazine from an SPE-active, local student, regarding what we could offer students that they would find valuable. These presentations offer the students the experience SPE professionals can bring on subjects that aren't often specifically covered in their courses; bringing real-world experience to those looking at the beginning of their careers in plastics. These talks will be combined with a social at a local restaurant or bar to enable networking and further discussion on the topics. We hope this is just another way the Cleveland SPE can foster new and enthusiastic individuals as they enter the polymers industry. If any members are interested in attending or even presenting, please feel free to contact us.

Ron Raleigh
President
SPE Cleveland



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Minutes of the Board of Directors Meeting held February 12th:

In Attendance: Dan Crist (House), John Sovis (Treasure), Craig Potter (Advertising, Newsletter), Bob Opalko (Secretary), D. Meade (Education, Awards), R. Raleigh (President), L. Nie (Membership), G. Zhang

Minutes

New Business: The IM group has not picked a venue yet for the Injection Molding TOPCON in November 2018. We have given the IM group all the needed information, including 7-8 possible venues. The IM group is asking that we identify 2 tour sites, with an injection molding nature. They are also asking us to identify sponsors.

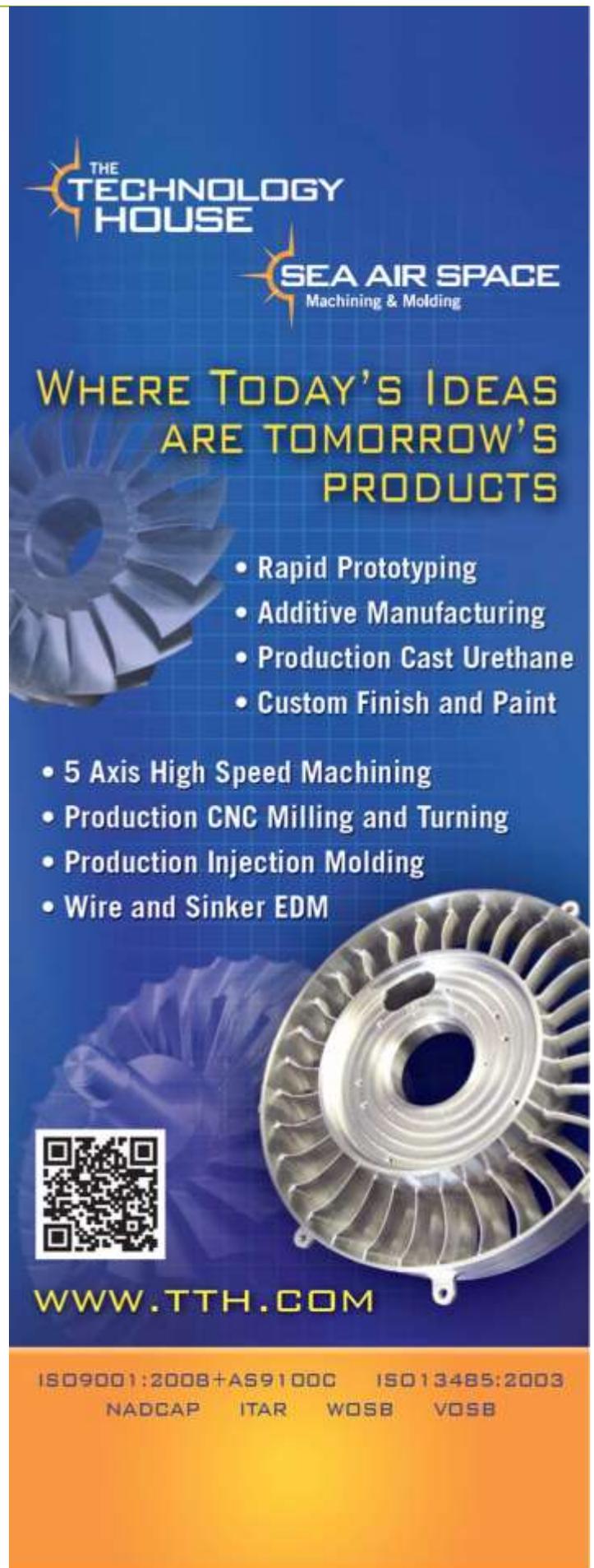
For the Extrusion Conference 2018 in September 18-20, 2018 in Cleveland, the Extrusion group would like free advertising space in the CLE section Newsletter in exchange for a booth at the event. They will also offer the CLE section 2 free conference passes, 2 free registrations and members would receive a discounted rate.

D. Meade will contact CAD about the CAD RETEC in 2019.

Members discussed having future meetings at CASE, combined with a student mixer, with a speaker from industry talking about the business side of the plastics industry. We are targeting the Fall semester 2018, but we need to have the program set up this summer.

There will be a CAD Board meeting at the NPE (May 7-11th) 2018. Members agreed that if CLE section board members attend the NPE, that they should represent our section at the CAD Board Meeting. Board members that are attending and are willing to help should forward their show schedules to R. Raleigh.

R. Raleigh recommended that those board members that are also CAD members support Todd Waddle's nomination to the board of CAD.



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Minutes of the Board of Directors Meeting (continued):

The Cleveland Technology SC is promoting a presentation, "Attracting Young Professionals to Your Society" on 2-28-18 at 5:30PM in Independence, OH. Members agreed that this would be of interest, particularly at a cost of only \$20. C. Potter plans to attend.

For the upcoming SAE presentation on Self-Driving Cars at the Cleveland Auto Show (5:30PM on 2-26-18 at the IX Center), we will have a booth with our banner, registration cards, and promotional materials (magazines, etc) provided by the National SPE. C. Potter to attend.

Treasurer: J. Sovis distributed the financial report, which the members accepted. He has arranged for a direct payment to Bruce Bille.

Advertising: Nothing new to report.

Councilor: Nothing new to report.

House: 28 people were registered for tonight's even, 32 people actually attended.

A venue needs to be identified for the Awards Dinner on May 15.

Membership: Li Nie reported that 1 new member has joined, 2 have dropped and 1 has re-joined the CLE section. Total active members stand at 141.

The National SPE may be promoting a corporate membership, but it is unknown if/how this impacts CLE section funding. The Board is asking that J. Blayne reach out to the National SPE and determine specifics about this.

Education: D. Meade and R. Raleigh will be judges at the upcoming Science Fair. J. Sovis to notify R. Raleigh about award prizes. The Board agreed to help fund the Plastivan with the Akron Section of the SPE, if the school is within the CLE Section. D. Meade will contact D. Schultz of the Akron Section regarding this. The venue for the Education Awards night is under consideration and will be dependent on the winning student's location.

Program: J. Sovis and R. Keeley to discuss future programs.

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February 12th Technical Meeting:

Dr. Gao manages an engineering and research team, Medical Device Solutions, in the Werner Research Center at the Cleveland Clinic. His team develops and prototypes unique medical devices as requested by doctors and surgeons at the Clinic. Once his team has shown proof of concept, the device is available for licensing to typical medical device OEMs.

Dr. Gao's team utilizes existing high performance and engineering polymers in their designs and materials are chosen based on the mechanical properties, application, performance, ability to insert, life cycle and exposure to medicines and chemicals. As these devices may be used during surgery or remain with the patient for a period of time, it is critical that Dr. Gao's team select pre-approved materials to eliminate the need for long term testing for safety.

At any time, the team may be working on 10 to 12 new ideas and modifications of several existing designs.



Dr. Gao and John Sovis, SPE Cleveland



Extrusion 2018

Cleveland Ohio – September 18 – 20, 2018

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 session discount for SPE Cleveland members.

Random shots of attendees from February 12th dinner meeting:



Random shots of attendees from February 12th dinner meeting:





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2017 – 2018 Cleveland SPE Programs (with Akron section)

Meeting	Topic	Speaker	Company	Location
12-Mar-18	Tooling	Darrell Stafford	Polymer Ohio	Akron Hilton
9-Apr-18	Plastics in Education		SPE	Akron Hilton
14-May-18	Cleveland Section Awards	Ron Raleigh Dennis Meade	SPE Cleveland	tbd

2017 – 2018 SPE Cleveland Section Officers and Board of Directors

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CALL FOR PRESENTATIONS

The SPE Thermoplastic Elastomers Special Interest Group (SIG) & Akron Section invite the submission of abstracts for presentation at the 13th TPE Topical Conference September 18-20, 2018.

In a change of format, only abstracts and presentations will be required.

Accepting presentations on the latest thermoplastic elastomer developments in:

- Medical and Healthcare
- Automotive and Transportation
- Wearable Electronics
- Advances in Processing Technologies
- Performance Enhancing Additives

Please submit presentation title, abstract, author/presenter name and affiliation to:

William Blasius
+1 774-545-0990 | wqblasius@gmail.com

Submission Deadlines:

Abstract: March 1, 2018

Completed Presentation: July 15, 2018