



# SPEC SHEET

SOCIETY OF PLASTICS ENGINEERS

CLEVELAND SECTION

SEPTEMBER 2018

VOL. 62

NO. 1

## PLANT TOUR – SAJAR PLASTICS



John Raybuck, Director of Engineering will present their Gas Assisted Injection Molding process along with a plant tour. Sajar Plastics specializes in gas assisted injection molding to produce large plastic parts with complex designs and excellent cosmetics. Sajar utilizes gas assisted injection molding, which is a low pressure process that injects pressurized nitrogen gas into the interior of a mold. The gas flows through strategically placed gas channels and displaces the plastic material in the thick areas of the part thus forming hollow sections.



### LOCATION:

#### Sajar Plastics

15285 S. State Ave  
Middlefield, OH 44062  
440 632 5203

### PRICING:

\$35 non-members  
\$30 members  
\$25 retirees  
\$10 students

### AGENDA:

**4:00pm:** Board Meeting  
**5:00pm:** Member arrivals and registration  
**5:15pm:** Sajar tours begin, groups of 10  
**6:00pm:** Dinner at Sajar, after tour  
**7:00pm:** Sajar presentation, Q&A to follow  
**8:00pm:** Adjourn

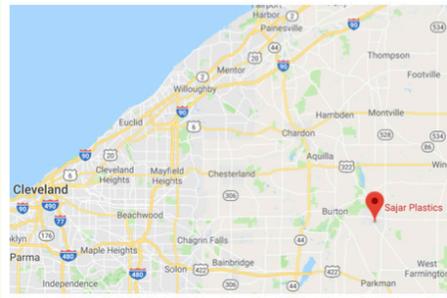
### RESERVATIONS:

Reservations must be made by noon on Wednesday September 12 to Dan Crist at 440 227 5424 or by email to [mail@cmd-tip.com](mailto:mail@cmd-tip.com). Be sure to mention any dietary restrictions.

*Sajar requires company affiliations of all visitors when making a reservation and a signed NDA at registration.*

## DIRECTIONS TO SEP. 17 MEETING

**Sajar Plastics**  
15285 S State Ave  
Middlefield OH



## SPEAKER'S BIO –

# JOHN RAYBUCK



John Raybuck is the Director of Engineering at Sajar Plastics. John currently leads the Engineering department, tool room, fixture de-

partment, as well as process development at Sajar Plastics. John has extensive experience as an inventor and Plastics Engineer assisting the plastics industry with solving novel challenges with practical solutions.

John has developed numerous plastic items during his career, mainly in the field of medical devices (fluid delivery, eyecare, vision and dental) which makes him uniquely positioned to solve problems from the beginning through to the end of a project with manufacturing in mind. John holds a BS degree in Plastics Engineering Technology from the Pennsylvania State University and has 12 patents and 2 patents pending.

## SAJAR PLASTICS – [WWW.SAJARPLASTICS.COM](http://WWW.SAJARPLASTICS.COM)

Sajar Plastics was founded in Middlefield, Ohio in 1949 with three plastic injection molding machines producing straight injection molded parts. “Sajar” is an acronym reflecting the last names of the founding three owners of the company. Sajar grew steadily over the years expanding manufacturing capabilities and facility to over 150,000 sq. ft., a direct result of earning a reputation in the custom molding industry as an innovative molder supplying high quality large plastic parts with complex designs and high cosmetic requirements at competitive prices.

In the early 1980's

Sajar was one of the three original companies which developed gas assisted injection molding and continues to pioneer its use and application today. Since then Sajar has acquired the equipment and processing technology necessary for the production of large complexly designed parts and the quality culture required to produce consistent high-quality cosmetics on customer facing components. To date Sajar has commercialized over 500 gas assisted parts for leading OEMs in a wide variety of industries including medical, laboratory and diagnostic, manufacturing, business, and retail registers/dispensing machines. **(continued)**

*(Sajar continued)*

As the industry leader in gas assisted plastic injection molding, Sajar Plastics has extensive molding capabilities to meet the diverse needs of our customers. Gas assisted injection molding can improve dimensional stability and lower costs over traditional manufacturing techniques such as structural foam molding and thermoforming. By injecting a controlled stream of gas into the mold, thick walls are created with hollow sections that save on material, shorten cycle time, and reduce the pressure required to mold the large plastic parts with complex designs and attractive surface finishes. All of these benefits are realized without any detriment to the structural integrity of the molded component.

Sajar offers both internal and external gas assisted injection molding which allows us to create a myriad of complex part geometries not previously achievable by injection molding. Instead of requiring multiple parts that must later be assembled, supports and stand-offs are easily integrated into a single mold without the need for complex coring. Multiple injection molding machines are capable of producing parts from 10" to 80" long and from 10" to 70" wide. In addition to gas assisted molding, traditional injection molding and structural foam molding are available. Value added services including painting, inserting, printing, assembly and packaging provide customers with a single source for turnkey injection molded parts.



**Sajar Has a Solution for Large Plastic Parts with Complex Designs and Excellent Cosmetics**  
Our unique capabilities offer you all the creativity you need in the construction of large plastic parts with complex designs and excellent cosmetics. Sajar specializes in plastic enclosures, medical equipment covers, plastic kiosk covers, bezels, skins, handles, and all other customer viewable parts.

Contact Info: Sajar Plastics  
15285 S State St PO 37  
info@sajar.com  
Middlefield OH 44062

Call: 440-632-5203  
Email:



## KEYNOTE SPEAKERS:

SEPTEMBER 19

### Market Back Innovation Using Smart Textiles

**Qaizar Hassonjee**  
President  
Hass Tech Associates



This talk will include an overview of the opportunities and applications for bringing new experiences with everyday textiles using Market Back Innovation (vs technology forward).

SEPTEMBER 20

### Innovation Inspired by Nature

**Christine Hockman**  
Co-Director  
Great Lakes Biomimicry

**Dr. Abraham Joy**  
Associate Professor of Polymer Science  
University of Akron (UA)



Biomimicry is the practice of learning from nature and emulating its forms, processes and systems to solve problems and drive innovation. Christine Hockman of Great Lakes Biomimicry will share powerful examples how humans have tapped into nature's brilliant designs and strategies and how Northeast Ohio has become a hub for bio-inspiration. Dr. Abraham Joy of The University of Akron will share how his novel research of mussel-inspired sticky elastomers has the potential to solve intractable biomedical problems; for example, adhering tissues post-surgery and avoiding the use of sutures.

## Sponsor/Exhibitor Opportunities Still Available

What helps make a great conference? Corporate assistance through sponsorship and exhibitors. The TPE Conference 2018 brings companies and individuals together for the benefit of all. Contacts are made, ideas are shared, and growth is initiated. Become a sponsor or exhibitor today! Sponsors & Exhibitors must register by **August 15, 2018.**

**Become a sponsor or exhibitor today!**

Questions?

Kevin Malpass

PH: +1 330-398-9411

THANK YOU TO OUR SPONSORS!

**kuraray**



FOR MORE INFORMATION OR TO REGISTER, VISIT:

[www.4spe.org/tpe18](http://www.4spe.org/tpe18)



# PRESIDENT'S MESSAGE

SPE CLEVELAND - SEPTEMBER

Welcome to the new SPE season from your new Cleveland Section President. I hope you all have had a great summer. By way of introduction to those members who don't know me, I have been in SPE since 1971, serving as President of the Firelands Section twice, the CAD Division board for 12 years, on the Detroit Section Board for 4 years and now on the Cleveland Section Board since 2013. As you can see, I am a believer in the Society of Plastics Engineers.

I realize that in these days of social media that many trade associations are challenged to maintain members and financing, including the Cleveland Section. Call me old school, but I still believe that personal contact with others in our industry has significant value. Yes, you can download a tech data sheet or get a question answered by email quickly but this is merely data gathering. It is

not building relationships with colleagues, customers and suppliers. It is not sharing ideas in an open and free discussion. It is not the opportunity to build helpful networks and even the opportunity to turn these relationships into genuine friendships.

As your new President, I am asking for your participation. Come to the meetings, come to the various SPE conferences, serve on your local Section Board and Committees and watch for upcoming local conferences. This is the way to get the most value out of your membership.

I look forward to seeing you at our next meeting in September.

**DENNIS MEADE**

*President*

*SPE Cleveland*

 **Purtell Vinyl Consulting, LLC**  
Ralph J. Purtell, Manager  
E-mail: [Purtell.PVC@gmail.com](mailto:Purtell.PVC@gmail.com)  
Tel: (216) 789-4907  
Specializing in  
Plastisol formulating and processing

 **AJ AUGUR GROUP, LLC**  
PROFESSIONAL SEARCH & RECRUITMENT SERVICES

**DAN REGOVICH, PRESIDENT**

440.357.7600 : [dregovich@ajaugur.com](mailto:dregovich@ajaugur.com)  
www.AJAugur.com : p-Fax 909-658-8905  
5255 Deer Ridge Road : Mentor, OH 44060

# DISCOVER THE ONE-SOURCE

[mar-bal.com](http://mar-bal.com)



*The leading integrated compounder and molder of BMC Thermoset composite products and value added finishing services.*

Mar-Bal, an ISO 9001:2015 Registered Company, serves the **appliance, electrical, industrial, food service and transportation industries** from their R & D and manufacturing facilities in North America and Asia.

Since 1970, Mar-Bal has engineered and manufactured **quality, customized materials and parts** while delivering unmatched client cost-effectiveness through superior customer service and commitment to the total value.

**R & D TECHNICAL CENTER**  
Chagrin Falls, OH

**CORPORATE OFFICE**  
Chagrin Falls, OH

**MANUFACTURING PLANTS**  
Painesville, OH  
Cuba, MO  
Dublin, VA  
Taizhou, China

**SALES & MARKETING**  
Chagrin Falls, OH  
Shanghai, China  
Blacksburg, VA



# UPCOMING CONFERENCES AND EVENTS:

## 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/>

Enter Promo code – **SPE100** – at the bottom of the registration page for a \$100 session discount for SPE members.



Leading distributor of thermoplastic resins.  
**We take the complexity** out of your color and appearance needs. [mholland.com](http://mholland.com)

Plastics Lab Development Systems



**Rick Cevera**  
Sales Manager  
Ph:(440) 812-0132

Milabtech LLC  
14042 Iroquois Woods Dr.  
Fenton, Mi. 48430  
<http://www.milabtech.com>  
[rcevera@milabtech.com](mailto:rcevera@milabtech.com)



**Plastic coated webbing made in USA since 1977**

PROTECTIVE POLYMER COATING

**SUPERIOR POLYWEBBING**  
WWW.BIOTHANE.US  
440-327-0485

FOR MEDICAL, TRANSPORT AND TACTICAL PRODUCTS



**COMPONENT MANUFACTURING AND DESIGN**

3121 Interstate Parkway, Brunswick, OH 44212

Phone: 330 225 8080    Email: [mail@cmd-tip.com](mailto:mail@cmd-tip.com)  
Fax: 330 225 8777    Internet: [www.cmd-tip.com](http://www.cmd-tip.com)



**ANTEC® 2019**  
Detroit, MI • March 18-21, 2019



## CALL FOR PAPERS

ANTEC® is the largest international technical meeting of individuals representing industry, government and academia, providing a broad perspective on the science, engineering and business of plastics.

### YOU ARE INVITED TO SUBMIT A PAPER FOR PUBLICATION & PRESENTATION

- Podium and poster presentations showcasing the latest in industrial, national laboratory and academic work
- Share your findings in polymer research or new and improved products and technologies

A full manuscript submission is required and will be due by October 19, 2018. Your paper will be published as part of the ANTEC 2019 proceedings.

**[SUBMIT NOW](#)**

### FOR MORE INFORMATION PLEASE CONTACT

Donna S. Davis  
[donna.s.davis@exxonmobil.com](mailto:donna.s.davis@exxonmobil.com)

Mark A. Spalding  
[maspalding@dow.com](mailto:maspalding@dow.com)

***SUBMIT TODAY AT: [www.4spe.org/ANTECcfp](http://www.4spe.org/ANTECcfp)***

# MINUTES SPE CLEVELAND BOARD MEETING –

**JUNE 25, 2018**

**ATTENDEES:** Dennis Meade, John Sovis, Jerry Blayne, Ron Raleigh, Dan Crist, Craig Potter, Guojun Zhang, Rik Keeley, Monoj Ghosh

## **BOARD ROSTER UPDATE:**

- \* Dennis Meade appointed to President position for 2018-2019 season. Congratulations Dennis and thanks for taking this on.
- \* All other chair and committee leaders remain the same for the upcoming season.
- \* John Sovis, has agreed to continue as both Treasurer and as Tech Program Chair, however members Rik Keeley, Guojun Zhang and Monoj Ghosh agreed to join the Tech Program Committee to assist John. John to utilize the committee to firm up program plans for this season.
- \* Monoj – welcome to the board and thanks for volunteering
- \* Potter to request “member paid-through-date” from all board members and provide roster to Nation by Fri Jun 29. Email sent to several members Jun 27.

## **TOPCON DISCUSSIONS:**

- \* Injection Molding Tech (Nov 2018) – Molding Division moving very slowly to set up this event considering it is only 4 to 5 months away. Role for Cleveland section, if any, will have to wait for Molding division to get organized and active. (event cancelled in Aug)
- \* CAD RETEC – Cleveland section has an agreement in place to support their RETEC in Oct 2019.
- \* Rotational Molding (6/3-6/6/18) – Potter to contact division for agreement for June 2019 event
- \* Vinyltec (Oct 2018, Chicago) is requesting our Membership list for promotional use, to be referred to National by Raleigh
- \* Akron Elastomers TopCon (9/18-9/20/18)
- \* Extrusion 2018 (9/18-9/20/18) – Potter to register for full program and will confirm with Opalko on his interest. Both to man booth on breaks during conference. Blayne willing to attend for booth duty as needed.
- \* Extrusion Division – Potter to contact the Extrusion division to support a possible MiniTec in Cleveland in 2019

## **2018-2019 TECH PROGRAMS:**

Sovis is in close contact with Akron section on tours and programs with a tour confirmed at Mar Bal in Feb 2019. Several

options have been identified for Sept for Tech Pgm committee to pursue (see above).

## **PLASTIVAN:**

- \* Board agreed to fund one event in 2018-2019 budget
- \* Meade to pursue likely candidate schools

## **SCHOLARSHIPS:**

- \* Two applications have been received from NE Ohio high school students
- \* Section has one \$1500 scholarship already funded at the SPE Foundation from a previous budget
- \* Board agreed to fund one additional scholarship for \$1500 from the 2018-2019 budget

## **STUDENTS AWARDS BANQUET**

- \* poor attendance by student award winners at May awards dinner
- \* 3 of 4 students had confirmed attendance but none of them attended, nor did any of them notify the Board
- \* Meade to confer with Science Fair leaders to share student behavior and to ask for any recommendations to reinforce the need to attend or notify
- \* Possible action item for the event in 2018-2019, is to withhold awards in case of uncommunicated absence
- \* is there a better date for this event to avoid other award events for these students?

## **CASE STUDENT NIGHT OCT 26, 2018**

- \* Zhang to provide headcount and confirm timing to Meade for preparation for this event.

## **SECTION PROJECTOR AND BANNER:**

- \* Craig now has possession of the section's projector, spare bulb, cables, banner and assorted booth items.
- \* Please notify Craig prior to a board meeting if any of this equipment is needed by a board member.

**NEXT BOARD MEETING:** Mon Sept 17, 2018, prior to general meeting at Sajar Plastics

# 2018-2019 PROGRAM SCHEDULE:

| <b>DATE</b> | <b>TOPIC</b>     | <b>TITLE</b>                      | <b>COMPANY</b>         | <b>LOCATION</b> |
|-------------|------------------|-----------------------------------|------------------------|-----------------|
| 9/17/18     | Plant tour       | Gas Injection Molding             | Sajar Plastics         | Middlefield     |
| 10/15/18    | TBD              | Polymer Coated Systems            |                        | Akron           |
| 11/12/18    | Plant tour       | Liquid Silicone Injection Molding | Qure Medical           | Twinsburg       |
| 12/10/18    | Holiday Party    | Madrigal Singers                  |                        | Wadsworth       |
| 1/14/19     | ACCESS           |                                   |                        | Akron           |
| 2/19/19     | Plant tour       | Thermoset Molding                 | Mar-Bal                | Mentor          |
| 3/11/19     | TBD              | Extrusion Event                   | After-market Suppliers | Akron           |
| 4/8/19      | Education Night  | Magnet presentation               |                        | Akron           |
| May 2019    | Education Awards | Science Fair Award winners        |                        | Cleveland       |

## PlastExt LLC

Training & Consulting to Extrusion Industry

Craig W. Potter  
President  
440 725 5214  
plastext16@gmail.com

Agent for:  
Paulson Training

# SPONSORS AND ADVERTISERS:

---

We would like to thank our returning sponsors for another season of their support and welcome our new sponsors for the SPE Cleveland family. Be sure to look for your copy of each monthly Newsletter, website update and meeting announcements, to which you are always welcome.

## 2018 – 2019 SPE CLEVELAND SECTION OFFICERS AND BOARD OF DIRECTORS

---

### **PRESIDENT**

**Dennis Meade**

Chroma Colors

[dmeade@chromacolors.com](mailto:dmeade@chromacolors.com)

### **PAST PRESIDENT**

**Ron Raleigh**

BYK Additives & Instruments

[rr100496@yahoo.com](mailto:rr100496@yahoo.com)

### **COUNCILOR**

**Jerry Blayne**

Professional Polymer Technical

Services, LLC

[blaynejj@att.net](mailto:blaynejj@att.net)

### **TREASURER**

**John Sovis**

[jsovis@twc.com](mailto:jsovis@twc.com)

### **SECRETARY**

**Robert Opalko**

Biothane Coated Webbing

[opalko@biothane.us](mailto:opalko@biothane.us)

### **HOUSE**

**Dan Crist**

Component Mfg. and Design

[mail@cmd-tip.com](mailto:mail@cmd-tip.com)

### **EDUCATION / STUDENTS**

**Dennis Meade**

Chroma Colors

[dmeade@chromacolors.com](mailto:dmeade@chromacolors.com)

### **AWARDS**

**Dennis Meade**

Chroma Colors

[dmeade@chromacolors.com](mailto:dmeade@chromacolors.com)

### **MEMBERSHIP**

**Li Nie**

Lubrizol

[Li.Nie@lubrizol.com](mailto:Li.Nie@lubrizol.com)

### **Website/Newsletter**

**Craig Potter**

PlastExt, LLC

[cwp654@gmail.com](mailto:cwp654@gmail.com)

### **ADVERTISING**

**Craig Potter**

PlastExt, LLC

[cwp654@gmail.com](mailto:cwp654@gmail.com)

### **TECHNICAL PROGRAMS**

**Rik Keeley**

Quality Synthetic Rubber

[rwkplastics1@yahoo.com](mailto:rwkplastics1@yahoo.com)