



**Society of Plastics Engineers  
Medical Plastics Division  
Newsletter  
February / March 2018**



**GREETINGS FROM THE CHAIR**



Dear Fellow MPD Members:

We have a few items coming up I wanted to draw your attention to:

First, balloting is open for our Division Councilor and if you did not receive a link to vote, you can reach out to me or anyone else on our Board to help make sure your voice gets heard! The Councilor is a vital

link between the Divisions and SPE. Be sure and vote!

We will be soon organizing the MPD Board of Directors ballot for 2018 with terms until 2021. A number of you have already indicated being interested in running in this years' ballot. If you are interested in helping out with the Divisions' organization, be sure to let me know! The Divisions' technical programming solely depends on the hard work of volunteer members and board members. Very high on the plus side, however, joining the MPD Board offers great opportunities to network and even make new friends!

Most exciting to share is the MPD technical program for ANTEC 2018 in Orlando. It promises to be our best conference yet! As you will see, our co-TPCs Amin Sedighiamiri and Ajay Padsalgikar have put together

**Inside This Edition...**

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## **GREETINGS FROM THE CHAIR (continued)**

a superb lineup of papers and also organized a Panel Discussion experts offering their insights on Plastics Medical Device Component Manufacturing (see page 26). Join me in thanking Amin and Ajay in putting this together in what has been challenging circumstances as ANTEC teams up with NPE in Orlando. Thanks guys!

Our Division also teamed up with the Southern California Section to offer a MiniTec conference while many of us were already in Anaheim for MD&M West 2018. MPD and SoCAL organizers felt strongly about organizing a similar event for MD&M West 2019 and so look for more news as our Division helps put this together.

Finally, we gratefully acknowledge PolyOne, our newsletters' very first advertiser! We expect more to join soon – but we thank PolyOne for what will ultimately be a boost to the technical programming MPD can bring its members.

Thanks for reading

-Pierre.

**Do you have questions about MPD Membership?**

**Please email Ed Fewkes**  
[fewkesej@corning.com](mailto:fewkesej@corning.com)

**Are you interested in volunteering for the BOD?**

**Please email Pierre Moulinié**  
[pierre.moulinie@covestro.com](mailto:pierre.moulinie@covestro.com)

# MEET YOUR SPE MPD BOARD OF DIRECTORS

## 2017-2018 MPD Board Appointments (1-year terms)



**Ned LeMaster, Teel Plastics**

- Technical Program – Webinars Lead



**Victoria Nawaby, Sealed Air**

- Education Co-Chair



**Amin Sedighiamiri, Eli Lilly & Company**

- ANTEC 2018 Technical Program Committee



**Nitin Sood, Getinge Group**

- Communications Committee Chair



**Harrison Yu, Bondable Biopolymers**

- Communications Committee – Interdivision Lead

# MEET YOUR SPE MPD BOARD OF DIRECTORS

## MPD Board Members with Term Expiring in 2018



**Ali Ashter, Getinge Group**

- Treasurer / Finance Committee/ Technical Program Committee



**Len Czuba, Czuba Enterprises**

- Councilor



**Margie Hanna, Czuba Enterprises**

- Finance Committee Chair



**Bob Herman, Quality Insights**

- Education Committee Co-chair



**Maureen Reitman, Exponent**

- Member – Technical Program Committee & Awards Committee

# MEET YOUR SPE MPD BOARD OF DIRECTORS

## MPD Board Members with Term Expiring in 2019



**Vipul Davé, Johnson & Johnson**

- Technical Program Committee Chair



**Ben Poon, Baxter Healthcare**

- Secretary



**Michael Wallick, Invibio**

- Awards Committee Co-Chair



**Bhavin Shah, Tepha**

- Vice-Chair

# MEET YOUR SPE MPD BOARD OF DIRECTORS

## MPD Board Members with Term Expiring in 2020



**Ravishankar Ayyar, Eli Lilly and Company**

- Awards co-chair



**Ed Fewkes, Corning**

- Membership co-chair



**David Jaekel, Exponent**

- Membership co-chair



**Ajay Padsalgikar, Abbott**

- ANTEC 2018 Technical Program Committee



**Louis Somlai, Eli Lilly and Company**

- Communications – Newsletter Editor

# MEET YOUR SPE MPD BOARD OF DIRECTORS



**Pierre Moulinié, Covestro**

• Division Chair



**Norris Tollefson, Alcon**

• Past Chair



**Kathy Schacht, SPE**

• SPE Liaison

**Do you have questions about MPD Membership?**

Please email Ed Fewkes  
[fewkesej@corning.com](mailto:fewkesej@corning.com)

**Are you interested in volunteering for the BOD?**

Please email Pierre Moulinié  
[pierre.moulinie@covestro.com](mailto:pierre.moulinie@covestro.com)

# MEDICAL PLASTICS DIVISION COMMITTEES

|  |   |  |
|--|---|--|
| <p><b>Division Chair</b><br/><b>Pierre Moulinié</b></p>  | <p><b>Vice-Chair</b><br/><b>Bhavin Shah ('19)</b></p> <ul style="list-style-type: none"> <li>• Education Committee Oversight</li> <li>• Membership Committee Oversight</li> </ul>   | <p><b>Past Chair</b><br/><b>Norris Tollefson</b></p> <ul style="list-style-type: none"> <li>• Awards Committee Oversight</li> <li>• Assistant Treasurer</li> </ul>                         |
| <p><b>Technical Program Committee</b><br/><b>Chair: Vipul Dave ('19)</b><br/>ANTEC '18 co-TPCs :<br/>Ajay Padsalgikar ('20); Amin Sedighiamiri<br/>Webinars Lead: Ned LeMaster<br/>Member: Maureen Reitman ('18)</p> | <p><b>Secretary</b><br/>Ben Poon ('19)</p>  | <p><b>Councilor</b><br/>Len Czuba ('18)</p>  |
| <p><b>Education Committee</b></p> <ul style="list-style-type: none"> <li>• Co-Chair: Bob Herman ('18)</li> <li>• Co-Chair: Victoria Nawaby</li> </ul>  | <p><b>Communications Committee</b><br/><b>Chair: Nitin Sood</b><br/>Newsletter : Louis Somlai ('20)<br/>Inter-division collaborations: Harrison Yu</p> <ul style="list-style-type: none"> <li>• Photos: <b>Vacant</b></li> <li>• Website : <b>Vacant</b></li> <li>• Historian: <b>Vacant</b></li> </ul> | <p><b>Membership Committee</b></p> <ul style="list-style-type: none"> <li>• Co-Chair: Ed Fewkes ('20)</li> <li>• Co-Chair: David Jaekel ('20)</li> <li>• Member: Ben Poon ('19)</li> </ul> |
| <p><b>Awards Committee</b><br/>Co-Chair: Michael Wallick ('19)<br/>Co-chair: Ravishankar Ayyar ('20)<br/>Member: <b>Vacant</b><br/>Member: <b>Vacant</b></p>   | <p><b>Finance Committee</b><br/><b>Chair: Margie Hanna ('18)</b><br/>Treasurer: Ali Ashter ('18)<br/>MPD Chair: Pierre Moulinie<br/>Ass't Treasurer (Past MPD Chair)<br/>Member: <b>Vacant</b></p>  |  |

**Are you interested in volunteering for the BOD?**

**Please email Pierre Moulinié**  
[pierre.moulinie@covestro.com](mailto:pierre.moulinie@covestro.com)



## 2017-2018 Society of Plastics Engineers – Medical Plastics Division Gold Pinnacle Award Winners



# Pinnacle Award



The SPE Pinnacle Award recognizes Sections & Divisions that work to create and deliver *member value* in four categories of achievement:

- **Organization:** Maintaining compliance with Section/Division organizational guidelines & policies.
- **Technical Programming:** Providing quality technical programming to members.
- **Membership:** Developing and implementing plans that result in annual membership growth.
- **Communication:** Communicating effectively with members about SPE offerings and events to foster a sense of community and allow members to respond.

**Pinnacle – Gold** is awarded to Sections and Divisions who, in addition to meeting Silver criteria, demonstrate *superior performance* in the Gold achievement categories

The Pinnacle program was established in 2005 to recognize Sections and Divisions that successfully create and deliver member value during year. Special thanks to Bhavin Shah for coordinating our submission!



## GREETINGS FROM THE NEWSLETTER EDITOR



Greetings fellow MPD Members!

Welcome to the latest edition of our newsletter! I appreciate your efforts to help me improve this communication tool; again please keep the feedback coming my way: [somlai\\_louis@lilly.com](mailto:somlai_louis@lilly.com)

Inside this edition of the newsletter you will find a few snapshots from recent medical plastics technical meetings and conferences such as MD&M West and the SPE Anaheim MiniTec (sponsored by the Southern California local section; programming arranged by Len Czuba and the MPD). I would also like to call to your attention a special joint session between the Injection Molding Division and Medical Plastics Division to be held at this year's SPE ANTEC in Orlando, FL (see page 27-30)

I am also very excited to announce our first external support for the MPD and newsletter. Please see the advertisement by PolyOne Corporation on page 12!

We continue to seek firms interested in advertising in our newsletter. Your board has recognized the need to increase fundraising for the division so we have renewed our efforts towards this funding avenue and sponsorship. If you are aware of a firm or organization that would benefit from advertising in our newsletter please let them and me know.

Best regards,

Louis

**Newsletter Suggestions? Want to Advertise?**

**Please email Louis Somlai**  
[somlai\\_louis@lilly.com](mailto:somlai_louis@lilly.com)

# MPD NEWSLETTER SPONSORSHIPS

## Sponsors...

We are seeking Sponsor Display Ads for our Award-winning Division Newsletter! To show your support of the Society of Plastics Engineers and in particular, the Medical Plastics Division, please consider taking part in this important communication support effort.

|                        |                                   |         |
|------------------------|-----------------------------------|---------|
| <b>Sizes Available</b> | (Full year amount, i.e. 3 issues) |         |
|                        | <i>Full page</i>                  | \$1,250 |
|                        | <i>Half page</i>                  | \$750   |
|                        | <i>Quarter page</i>               | \$400   |
|                        | <i>Eighth page</i>                | \$250   |

**LISTED ADVERTISING PRICES REPRESENT A 50% DISCOUNT**  
**IN EFFECT UNTIL ANTEC 2018**  
**ACT NOW!!!**

The newsletter, as scheduled, is prepared and circulated **three times per year** (*plus the occasional 4<sup>th</sup> or bonus issue*). Every Medical Plastics Division member receives a copy emailed directly to their listed address. Additional copies are also circulated (via the Chain) in our continuing effort to reach new and prospective members and other interested individuals.

To show your support please contact Louis Somlai at 317.209.4719 (email: [somlai\\_louis@lilly.com](mailto:somlai_louis@lilly.com)).

Thank-you for your support!

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**Want to Advertise?**  
Please email Louis Somlai  
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# COUNCILOR'S REPORT



Dear SPE Friends,

The SPE election season is upon us. At the council level, we are in the process of electing a new group of vice presidents for the Executive Board as well as the officers who will step into senior leadership roles for the next SPE year that starts at ANTEC 2018. An email was sent to all SPE members on or about 12 Feb18. But if you missed that email, the relevant info is below.

## Executive Board

The nominating committee has presented the following candidates:

For President elect: Brian Landes

<http://leaders.4spe.org/spe/2018ebnominees/BrianLandesInfo.html>

For Vice President of Divisions: Jason Lyons and Scott Steele

<http://leaders.4spe.org/spe/2018ebnominees/JasonLyonsInfo.html>

<http://leaders.4spe.org/spe/2018ebnominees/ScottSteeleInfo.html>

For Vice President of Sections: Scott Eastman & Monika Verheij

<http://leaders.4spe.org/spe/2018ebnominees/ScottEastmanInfo.html>

<http://leaders.4spe.org/spe/2018ebnominees/MonicaVerheijInfo.html>

For Vice President of Technology & Education: Raj Krishnaswamy & Ray Pearson

<http://leaders.4spe.org/spe/2018ebnominees/RajKrishnaswamyInfo.html>

<http://leaders.4spe.org/spe/2018ebnominees/RaymondPearsonInfo.html>

You are welcome and encouraged to review these candidates' credentials and view their short video explaining their background and then provide me with your input on whom you suggest I vote for on your behalf. I encourage and will readily take your input!

## Division Councilor

There will also be an election for our division, the Medical Plastics Division Councilor for the next 3-year term. As your current councilor, I am finishing my first 3-year term and need to be either elected or replaced with another interested member who would like this position. Please be on the look-out for the election ballot and by all means, cast your ballot for the person you believe should hold this role for the next 3 years.

## Division Board Members

This are also soon-to-be-held elections for new board members for MPD. I don't know the status of this annual election but I know that the board is making the necessary arrangements to hold this election in short order. Please exercise your right to vote for your choice of new board members.

## Finally, MPD Board Officers

Although the officers of the division are elected by the active board members, it is important for all of you to send your opinions to the board which would be read as correspondence at our board meetings. This would help the board to select the candidate that you as our division membership feels is the best for the job. Please keep alert for details of this election in the few short months before ANTEC in Orlando.

## Other news

ANTEC planning is in full swing and will host around 600 technical presentations over the new 4 day format. As you know, ANTEC will be held the same week as NPE in Orlando and our program will be concurrently offered while NPE is going on at the convention center. Our conference has been given a fewer number of conference rooms for our technical session presentations forcing us to expand our program to include Thursday this year to accommodate all the requested sessions. Please make your plans to attend ANTEC as well as NPE this year. There is a great program planned with many extra activities that help make it even more fun!

We specifically request that all MPD board members attend ANTEC and all our division board meetings and activities. There is much planned and I am assured that we'll have fun as well as make the time rewarding both for your technical career and role as a leader in SPE.

I welcome all feedback. Give me a call or send a note. Thanks in advance!

Best regards,  
Len Czuba  
Medical Plastics Division Councilor  
Distinguished, Honored Service Fellow of SPE

Check out what you missed...



**MD&M West connects you with thousands of advanced design and manufacturing professionals for three days of industry immersion. Source from the world's largest collection of medtech suppliers. Connect with over 20,000 engineers and executives who are ready to forge business partnerships. Learn from industry luminaries presenting their insights.**



Check out what you missed...



**Panel: Criteria for Choosing the Right Material for Your Device**

**Moderator: *Len Czuba* (President, Czuba Enterprises)**

**Panelists: *James Semler PhD* (Technology Manager, Research & Development, BD Medical); *Ajay Padsalgikar PhD* (Sr. Principal Scientist, Materials Technology, Abbott); *Steve Jepson* (Senior Engineer, Baxter); *Vipul Davé* (Research Director & Fellow, Global OTC Technology, Johnson & Johnson)**

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Check out what you missed...



**MD&M West is your chance to find answers to your current Medtech challenges — from prototyping to full-scale manufacturing — while keeping up with the latest innovations reshaping the industry such as advanced robotics solutions**

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Check out what you missed...



## Presentation: What's New in Medical Materials?

Presented by: Vipul Davé (Research Director & Fellow, Global OTC Technology, Johnson & Johnson)

# MD&M West 2018

Check out what you missed...



**MD&M West was held in Anaheim, CA and afforded attendees a nice warm weather break and a variety of culinary delights in the form of local food trucks!**

---

# SPE MiniTec 2018

Check out what you missed...



## **SPE MPD BOD - MiniTec Impromptu Dinner**

***Back Row from Left to Right: Pierre Moulinie, Steve Schick, Ned LeMaster, Tom Thompson, George Gorman***

***From Row from Left to Right: Vipul Davé, Len Czuba, Margie Hanna, Christian Herrild***

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Check out what you missed...



Ajay Padsalgikar and Suhas Kulkarni welcoming attendees

Check out what you missed...



## **MORNING SESSION: NEW MATERIALS**

- “Materials for Medical Applications” presented by Vipul Davé, Johnson & Johnson
- “A Uniform and Unbiased Method for Testing the Chemical Resistance of Plastics in Medical Luer Connectors” presented by Isaac Platte, Covestro
- “Product Design Differences Between Plastic and LSR” presented by Rick Finnie, M.R. Mold & Engineering
- “Stability of Polyurethanes in Cardiac Applications” presented by Ajay Padsalgikar, Abbott (SJM)
- “Anti-counterfeiting Features in Medical Devices” presented by Christian Herrild, Teel Plastics
- “Assessing Potential Health Risks of Polymers Used in Wearable Devices” presented by “Chip” Kurt Breitenkamp, Exponent

## **AFTERNOON SESSION: NEW PROCESSING TECHNOLOGIES**

- “Precision Compounding via Twin Screw Extruders for Medical Products” presented by Charlie Martin, Leistritz
- “Increasing Efficiency in Design and Validation of Plastic Parts Using CT Scanning” presented by Melissa Butrie, 3D Proscan
- “Process Monitoring and Control Systems as Basic Building Blocks for the 4th Industrial Revolution” presented by Marcel Fenner, Priamus
- “Proven Methods to Reduced Process Development, Inspection & In-Process Inspection Times for Injection Molding of Medical Device Components” presented by Suhas Kulkarni, Fimmtech
- “A New Injection Moldable, Medical Grade HMWPE for Implant Applications” presented by Steve Kurtz, Exponent
- “3D Printed Prototype Parts out of Production Material” presented by Kai Wender, Arburg

# SPE MiniTec 2018

Check out what you missed...



The SPE MiniTec was held the day after MD&M West. The event was hosted by the Southern California local section with programming arranged by Len Czuba and the MPD



Check out what you missed...



**Presentation: Anti-counterfeiting Features in Medical Devices  
Presented by: Christian Herrild, Teel Plastics Inc.**



**Presentation: Increasing Efficiency in Design and Validation of  
Plastic Parts Using CT Scanning  
Presented by: Melissa Butrie, 3D Proscan**

# UPCOMING EVENTS



## ANTEC<sup>®</sup> ORLANDO

The Plastics Technology Conference

May 7-10, 2018  
Orange County Convention Center



### 550+ Technical Papers & 60+ Technical Marketing Presentations in the following areas:

Additive Manufacturing/3Dp

Advanced Energy

Alloys & Blends

Applied Rheology

Automotive

Bioplastics

Blow Molding

Color & Appearance

Composites

Decorating & Assembly

Electrical & Electronic

Engineering Properties & Structure

Extrusion

Failure Analysis & Prevention

Flexible Packaging

Injection Molding

Joining of Plastics & Composites

Medical Plastics

Mold Technologies

Plastic Pipe & Fittings

Plastics in Building & Construction

Polymer Analysis

Polymer Modifiers & Additives

Product Design & Development

Reaction Injection Molders

Rotational Molding

Sustainability

Thermoforming

Thermoplastic Elastomers

Thermoplastic Materials & Foams

Thermoset

Vinyl Plastics

## Medical Plastics Division ANTEC<sup>®</sup> 2018 PAPERS

**Submission Deadline: NOW CLOSED**

**Type of Papers/Presentations:**

- Technical (full written paper)
- Commercial, presentation is allowed, but need to review before acceptance

**Topics of Interest Include:**

- Novel Materials/Chemistries
- High Performance Materials/Composites
- Implantable Materials
- Absorbable Materials
- Drug Delivery Devices
- Medical Devices for Different Applications
- Additive Manufacturing
- Micro-molding
- Medical Textiles and Woven Structures
- Surface Modifications, Coatings and Additives
- Diagnostics Devices and Methods
- Modeling and Characterization Methods

**Coming Soon!  
Preliminary Program Follows!**

# UPCOMING EVENTS



## ANTEC® ORLANDO

The Plastics Technology Conference

May 7-10, 2018  
Orange County Convention Center



- Summary    Topics    **Technical Program**    Registration    Sponsor Information
- Plenary Speakers    New Technology Forum    Women's Connections Breakfast    Plastics for Life
- Annual Award Winners    ANTEC Mobile App    Speaker Resources    Hotel Information

### Tuesday Morning

|                     |  |
|---------------------|--|
| 8:00 am – 11:30 am  | <b>T6-Medical Plastics/Injection Molding<br/>Joint Session: Processing of Medical Plastics</b>   |
| 8:00 am – 8:30 am   | <i>KEYNOTE: Innovations in Plastics Processing for Healthcare Applications</i><br>Manish Nandi, SABIC  |
| 8:30 am – 9:00 am   | <i>KEYNOTE: New Developments and Trends in Medical Extrusion</i><br>Steve Maxson, Graham Engineering   |
| 9:00 am – 9:30 am   | Laser-based Processing of Polymers for Medical Applications<br>Roger Narayan, NC State University  |
| 9:30 am – 10:00 am  | Micro Molding Drug Delivery Devices to Micron Tolerances<br>Donna Bibber, Isometric Micro Molding, Inc.  |
| 10:00 am – 11:30 am | <i>PANEL: Part Process Development and Validation for Multiple Machines</i><br>Matthew Therrien, RJG Inc.<br>Rod Brown, Eli Lilly & Company<br>Greg Lusardi, Becton Dickinson<br>Paul Robinson, QSQC<br>Brad Smith, Johnson & Johnson<br>Ed Valley, Nypro, a Jabil Company |

# UPCOMING EVENTS



## ANTEC® ORLANDO

The Plastics Technology Conference

May 7-10, 2018  
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- Summary    Topics    **Technical Program**    Registration    Sponsor Information
- Plenary Speakers    New Technology Forum    Women's Connections Breakfast    Plastics for Life
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### Tuesday Afternoon

|                   |   |
|-------------------|---|
| 1:30 pm – 6:00 pm | <b>T15-Medical Plastics: Materials and Processing for Medical Applications</b>  |
| 1:30 pm – 2:00 pm | <i>KEYNOTE: Opportunities and Obstacles for Plastic Primary Packaging in Drug Delivery Devices</i><br>Sarah Clark, Eli Lilly and Company  |
| 2:00 pm – 2:30 pm | Establishing Polymer Equivalency Process for Medical Device Application<br>Shantanu Shivdekar, Boston Scientific  |
| 2:30 pm – 3:00 pm | High Performance Polymers for Medical Devices<br>Marissa Tierno, Fluortek, Inc  |
| 3:00 pm – 3:30 pm | EVA Polymer as a Platform for Advanced Drug Delivery<br>Don Loveday, Celanese   |
| 3:30 pm – 4:00 pm | Chemical and Thermal Analysis of the Surface Extractives of Medical Tubing of A Poly(ether-b-amide) Copolymer Using FTIR, GPC, and DSC Methods<br>Xiaoping Guo, Abbott Laboratories |
| 4:00 pm – 4:30 pm | SMART MATERIAL SELECTION FOR QUIET, SMOOTH-SLIDING MEDICAL DEVICES INCLUDING NEW COLOR CONCEPT<br>Kirsten Markgraf, Celanese  |
| 4:30 pm – 5:00 pm | Processing of TPUs for Medical Applications<br>Ian Pierson, Abbott  |
| 5:00 pm – 5:30 pm | ANTIMICROBIAL BI-LAYER CATHETERS – EXTRUSION AND PERFORMANCE<br>Timothy Largier, Foster Corporation   |
| 5:30 pm – 6:00 pm | Elastomeric to Engineered Thermoplastic Polyurethanes<br>Anthony Walder, Lubrizol   |

# UPCOMING EVENTS



## ANTEC® ORLANDO

The Plastics Technology Conference

May 7-10, 2018

Orange County Convention Center



- Summary    Topics    **Technical Program**    Registration    Sponsor Information
- Plenary Speakers    New Technology Forum    Women's Connections Breakfast    Plastics for Life
- Annual Award Winners    ANTEC Mobile App    Speaker Resources    Hotel Information

### Wednesday Afternoon

|                   |  |
|-------------------|--|
| 1:30 pm - 6:00 pm | <b>W17-Medical Plastics: Materials and Processing for Medical Applications</b>   |
| 1:30 pm - 2:00 pm | <i>KEYNOTE: Medical Tubing Process Optimization with Simulation</i><br>John Perdikoulis, Compuplast International Inc.   |
| 2:00 pm - 2:30 pm | SYSTEMS ENGINEERING FOR MEDICAL DEVICE DEVELOPMENT: APPLICATION TO INSULIN PUMPS<br>Marc Horner, ANSYS, Inc.   |
| 2:30 pm - 3:00 pm | Effects of the Biological Environment on Thermoplastic Polyurethanes<br>Ajay Padsalgikar, Abbott   |
| 3:00 pm - 3:30 pm | Accounting for Differences in Modulus and Stress Relaxation Behavior in Plastics Undergoing Chemical Resistance Testing<br>Mark Yeager, Covestro LLC   |
| 3:30 pm - 4:00 pm | Degradation Products of Medical Devices in Complex Biological Environments: Risk Assessment Strategies<br>Adam Kozak, Cambridge Polymer Group  |
| 4:00 pm - 4:30 pm | ACCELERATED AGING OF MEDICAL-GRADE RESINS: Q10 FACTORS AND MATERIAL AGING MODELS<br>Rob Klein, Stress Engineering Services   |
| 4:30 pm - 5:00 pm | Engineered Polymer Surfaces for Superior Performance in Pharmaceutical Applications<br>Prakash Iyer, Inhance Technologies  |
| 5:00 pm - 5:30 pm | Supercritical Carbon Dioxide Assisted Extrusion of Graphene Nanofiller Reinforced Polymers for Biomedical Applications<br>Austin Coffey, Waterford Institute of Technology   |
| 5:30 pm - 6:00 pm | The regulation of micro-super-hydrophobic silicone rubber to the behavior of human lens epithelial cells<br>liuxueying zhong, State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzho |

## CALL FOR PAPERS Medical Plastics Division Injection Molding Division Joint Session ANTEC 2018

Submission Deadline: **NOW CLOSED**

### Type of Papers/Presentations:

- **Technical (full written paper)**
- **Commercial presentation is allowed, but need to review before acceptance**

### Topics of Interest Include:

- Regulatory requirements for molded parts for medical usage
- What does it take to be a Medical Molder?
- Machine and Mold design for micro molding
- Use of molding flow simulation tools in medical part molding
- Molding biodegradable materials
- Case studies in Medical Molding
- Molding technologies for medical molding
- Material selection and design considerations for injection-moldable medical parts

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**Coming Soon!**  
**Preliminary Program Follows!**

# UPCOMING EVENTS

## PANEL DISCUSSION

### "Part Process" Development and Validation for Multiple Machines

*Organized by "Medical Plastics" and "Injection Molding" Divisions*

*Date and time: ANTEC Orlando, Tuesday, May 8, 2018, 10:00 – 11:30 am EST*

A Medical Device OEM Consortium challenged the traditional plastic part validation process to facilitate moving a mold between machines – from Validation into Production. Much has been written and said regarding the "what and how-to" as it relates to process development and moving a mold between machines for the medical device industry. The Consortium member panel executed it - the economics of adopting this approach could potentially not only save tens to hundreds of thousands of dollars for each move, but the speed-to-market advantages and operations flexibility would be simply invaluable. Read the full article [here](#).

## SPEAKERS



**Matt Therrien**  
*Business Development Manager – Medical, RJG Inc.*



**Paul Robinson**  
*Lead Regulatory Advisor, QSCS*



**Ed Valley**  
*Sr. Engineering Manager – Tooling, Nypro, a Jabil Company*



**Rod Brown**  
*Senior Injection Molding Steward, Eli Lilly & Company*



**Greg Lusardi**  
*Worldwide Leader Molding, Becton Dickinson*



**Brad Smith**  
*Principal Plastics Engineer, Johnson & Johnson Supplier Excellence*



**Scott Scully**  
*Director, Corporate Molding/Tooling Terumo Cardiovascular*



**Maureen Reitman**  
*Corporate Vice President, Exponent*

## MODERATOR

**Medical Plastics Division – Injection Molding Division  
SME Joint Panel Discussion at ANTEC 2018**



# UPCOMING EVENTS



## PANEL MEMBERS INFO



**Matt Therrien**  
*Business Development Manager – Medical, RJG Inc.*

Matt Therrien is the Northeast Regional Manager for RJG, Inc. with 28 years of experience focusing on promoting Customer success. Strategies include a strong consultative approach, with an emphasis on driving results and developing innovative solutions to a broad range of customer concerns, as well as client education. He has completed the RJG Master Molder Certification Program. He is a BSME graduate of the University of Massachusetts, Amherst and his experience is drawn from technical and commercial management positions at the global companies Nypro, Husky Injection Molding Systems, MoldMasters, Inc., and UPG/MedPlast – where he has implemented successful business models across all market segments, the last 15 years focused on medical device/assembly manufacturing. He can be reached at [matt.therrien@rjginc.com](mailto:matt.therrien@rjginc.com)



**Paul Robinson**  
*Lead Regulatory Advisor, QSCS*

I am an accomplished Quality Executive with over twenty-five years of domestic and international experience. My career has been built on a solid foundation in quality, engineering, and manufacturing through progressive positions focuses on Quality Systems, Design Assurance, and Operational Excellence with companies such as Covidien, Boston Scientific, and BARD. I am a recognized QA/RA leader, having maintained over twenty manufacturing plants worldwide that produced various products including plastics, electronics, pharmaceuticals, biologics, and woven/non-woven materials. As an Operational Excellence head, I conceived and launched an organization-wide effort that realized over \$260MM in three years.



**Ed Valley**  
*Sr. Engineering Manager - Tooling, Nypro, a Jabil Company*

Senior Plastics Professional with 20+ years of experience in several areas including Operations, Engineering, and Program Management. Proven Technical Leader of Tooling, Process, and Project Engineering teams within the Healthcare, Consumer, and Automotive industries. Skilled in Scientific Injection Molding, Design for Manufacturing (DFM), Tool Design, Project Management, New Product Introduction (NPI), LSS Principles, and Validation of Automation and Plastic Injection Molds. Obtained Certifications in Program Management, Design of Experiments (DOE), Master Molder I, and Master Molder II.

**Medical Plastics Division – Injection Molding Division  
SME Joint Panel Discussion at ANTEC 2018**

# UPCOMING EVENTS



**Rod Brown**  
*Senior Injection  
Molding Steward, Eli  
Lilly & Company*

Rodney A. Brown (Eli Lilly) provides expertise in Plastic Injection Molding, mentoring numerous individuals and development of engineering best practices. Before joining Lilly, he worked as a Project Manager for automotive components at Guide Corporation. He joined Lilly as a Consultant Engineer in 2006 bringing over 20 years of injection molding experience. He has been a key technical contributor to numerous delivery system projects critical to Lilly's future. The outcome of some of the projects has brought significant return to Lilly's injection-device-enabled business. Rod is also a recognized expert in plastic injection design and has worked with Lilly partners to ensure robust long-term supply of device components. His work not only improved existing products, but helped shape the next generation of Lilly devices.



**Greg Lusardi**  
*Worldwide Leader  
Molding, Becton  
Dickinson*

I have spent nearly thirty years in various roles in the injection molding industry with the past twenty plus years at BD. I currently hold the position of Worldwide Molding Leader responsible for best practice implementation and Operational Excellence in over 50 manufacturing sites globally. Throughout my career I have held roles that include a focus in processing, tooling, hot runner technology, R&D, validation, new product development and vendor and operations management. I have worked in various industries to include medical device, consumer goods, electronics, industrial and automotive. I have completed the RJG Master Molder I and II certification courses.



**Brad Smith**  
*Principal Plastics  
Engineer, Johnson &  
Johnson Supplier  
Excellence*

I am a Principal Plastics Engineer currently working for Johnson & Johnson in the Supplier Excellence organization. I support all three J&J Sectors – Pharm, Consumer and Medical Devices. I am Black Belt Certified by J&J. My role is to enable our external Plastics Suppliers to be more efficient, more cost effective and improve the quality level in the manufacturing of J&J products. I am a graduate of the University of Lowell, BS and MS in Plastics Engineering. I have been working in the Plastics industry for 3 decades. My career has included working in the Aerospace, Automotive, Consumer and Medical fields – all advancing plastics.

**Medical Plastics Division – Injection Molding Division  
SME Joint Panel Discussion at ANTEC 2018**

# UPCOMING EVENTS



**Scott Scully**  
*Director, Corporate  
Molding/Tooling  
Terumo  
Cardiovascular*

Scott is a plastics veteran of 39 years, working the last 17 years at Terumo Cardiovascular Systems. A Master Molder II, Six Sigma Green Belt, with World Class Manufacturing and Project Management certifications. He was an apprentice, journeyman, mold designer, business owner, Medical Molding Engineering Chief, Business Unit Manager, and now a Corporate Director with Terumo. A solid foundation in Project Management, Tooling, Processing, Six Sigma, and Lean Manufacturing through progressive positions, proper training and being a constant seeker of new information. Focuses on using new technologies to improve quality, throughput, and cost. Project management at a dozen sites at any given time both domestically and internationally. Conceived and launched project initiatives that have saved the company over 2.5 million per annum. Created a validation/ troubleshooting team to assist suppliers in educating and developing validation procedures that are compliant and cost-effective.



**Maureen Reitman**  
*Corporate Vice  
President, Exponent*

Dr. Maureen Reitman is a Principal Engineer and the Director of Polymer Science and Materials Chemistry at Exponent, a leading scientific and engineering consulting firm. She works across the supply chain to help bring new products to market, support continuous improvement, address risk, understand service life and facilitate innovation in many industries. Dr. Reitman has served SPE through her involvement in Medical Plastics Division, Failure Analysis and Prevention SIG and the New Technology Forum.

**Medical Plastics Division – Injection Molding Division  
SME Joint Panel Discussion at ANTEC 2018**

# UPCOMING EVENTS



THE PLASTICS SHOW

**NPE2018: THE PLASTICS SHOW**

May 7-11, 2018 | Orlando, Florida USA

**NPE.org | #NPE2018**

ATTEND | EXHIBIT HIGHLIGHTS | SEARCH THE SHOW



## Experience the future of plastics manufacturing at NPE2018.

From new materials and additives to pioneering technology and green initiatives, **NPE2018** brings together everything that's trending in the plastics industry today—and gives you a good look at what's in store for tomorrow.

**REGISTER NOW**

# TREASURER'S REPORT

## TREASURER'S REPORT – Ali Ashter



*Treasurers report as of February 22, 2018*

Balance as of Nov 30, 2017      \$                      21,210.43

### INCOME

| Income Type         | Amount             |
|---------------------|--------------------|
| SPE Rebate          | \$ 1,177.50        |
|                     |                    |
|                     |                    |
|                     |                    |
|                     |                    |
|                     |                    |
|                     |                    |
|                     |                    |
|                     |                    |
| <b>TOTAL INCOME</b> | <b>\$ 1,177.50</b> |

### EXPENSE

| Expense Type              | Amount      |
|---------------------------|-------------|
|                           |             |
|                           |             |
|                           |             |
| No expense to be reported |             |
|                           |             |
|                           |             |
|                           |             |
|                           |             |
| <b>TOTAL EXPENSE</b>      | <b>\$ -</b> |

**FUNDS AVAILABLE AS OF FEBRUARY 22, 2018**      \$                      22,387.93

**Do you have questions about the Treasurer Report?**

Please email Ali Ashter  
ashter2000@gmail.com

## 2018 CALENDAR – SPE WEBSITE (WWW.4SPE.ORG)

### 14 11th European Thermoforming Conference

Mar March 14–16, 2018, Rome, Italy

### 27 2018 TPO Shanghai

Mar March 27-29, 2018, Shanghai, China

### 18 Additives & Color Conference Middle East

Apr April 18-19, 2018, Manama, Bahrain

### 30 AUTO EPCON 2018

Apr April 30-May 1, 2018, Troy, Michigan

### 7 ANTEC® 2018 @NPE2018

May May 7-10, 2018, Orlando, Florida

### 3 Rotational Molding Conference 2018

Jun June 3-6, 2018, Cleveland, Ohio

### 14 SPE Extrusion Mini Tec

Jun June 14, 2018, Detroit, Michigan

### 21 SPE Extrusion Mini Tec

Jun June 21, 2018, Marietta, Georgia

### 5 SPE Automotive Composites Conference & Exhibition

Sep September 5-7, 2018, Novi, Michigan

### 11 Advances in Foam Materials & Technology

Sep September 11-14, 2018, Montreal, Quebec, Canada

### 18 2018 Thermoplastic Elastomers Conference - Innovation Bounces Back

Sep September 18-20, 2018, Akron, Ohio

### 23 Color and Appearance Conference: (CAD RETEC®)

Sep September 23-25, 2018, North Charleston, South Carolina

### 24 Thermoforming Conference®

Sep September 24-26, 2018, Fort Worth, Texas

### 7 Automotive TPO Conference

Oct October 7-10, 2018, Troy Marriott (Detroit Suburbs), Michigan



# SPE CALENDAR

## 2018 - 2019 CALENDAR – SPE WEBSITE (WWW.4SPE.ORG)

### 8 Annual Blow Molding Conference 2018

Oct October 8-10, 2018, Pittsburgh, Pennsylvania

### 23 Vinyltec® 2018: PVC Additives Today and Tomorrow

Oct October 23-25, 2018, Chicago, Illinois

### 28 FlexPackCon® 2018

Oct October 28-31, 2018, Phoenix, Arizona

### 7 48th Annual SPE Automotive Division Innovation Awards Gala

Nov November 7, 2018, Livonia, Michigan

## 2019

### 24 International Polyolefins Conference

Feb February 24-27, 2019, Houston, Texas

### 18 ANTEC® Detroit

Mar March 18–20, 2019, Renaissance Center Detroit, MI

### 9 Thermoforming Conference®

Sep September 9-12, 2019, Milwaukee, Wisconsin

### 23 Annual Blow Molding Conference 2019

Sep September 23-25, 2019, Atlanta, Georgia

### 23 Color and Appearance Conference: (CAD RETEC®)

Sep September 23-25, 2019, Cleveland, Ohio

### 23 Annual Blow Molding Conference 2019

Sep September 23-25, 2019, Atlanta, Georgia

### 1 Vinyltec® 2019 Conference

Oct October 1-3, 2019, Akron, Ohio

### 6 Automotive TPO Conference

Oct October 6-9, 2019, Troy Marriott (Detroit Suburbs), Michigan



## Newsletter Suggestions?

somlai\_louis@lilly.com