

GREETINGS FROM THE CHAIR



Dear Fellow Medical Plastics Division Members:

We did it! Medical Plastics Division was awarded the Pinnacle Gold Award again this year, and a BIG thanks go to all our members and Board Members who helped make this Division worthy of recognition by SPE. I also want to draw attention to the Communications Award to our own Louis Somlai, who edits our newsletter. Congrats Louis! This means we have lots to celebrate when we meet up at ANTEC and we will be meeting up on Tuesday evening, May 8th (details to follow – email me!).

Last April was all about Medical Plastics and China. I was fortunate to take in both the China Medical Equipment Fair (CMEF) and Chinaplas, two events in Shanghai which are on the scale of K-Fair and Medica in Germany. I was fortunate to connect with SPE President Raed Al-Zubi and SPE CEO Pat Ferry there as well. If you are anywhere in the medical plastics business, these shows are a big deal and worth considering for your tradeshow circuit. Of course, we are about to start the big plastics event for North America: NPE2018 and our own ANTEC2018.

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GREETINGS FROM THE CHAIR (continued)

This years' Medical Plastics Division technical programming has further elevated MPD's reputation for quality technical content. We are very grateful for the hard work by Amin Sedighiamiri and Ajay Padsalgikar, our Technical Program co-Chairs who have put together what is likely the most packed technical program we have seen in a long time. We especially look forward to a panel discussion titled "Part Process Development and Validation for Multiple Machines "MPD brings to you with the Injection Molding Division, and will be moderated by our own Maureen Reitman.

As for organizational matters, we recently re-elected Len Czuba to be our Divisions' councilor. We are fortunate to have Len on board with us as he has been a strong voice for MPD at SPE Council Meetings and also a trusted advisor to our Board in planning our events and meetings. As you will notice from this newsletter, we are getting set for electing MPD board members for terms expiring in 2021. Again this year we have outstanding candidates that have already spent a lot of time and energy supporting MPD. Look for the ballot via email and be sure to VOTE!

Looking ahead, our Board will also look to revisit the Chair and Chair-elect positions. It has already been two years since I succeeded Norris Tollefson, and it is time for our board to think about the next few years and how to best serve MPDs needs. Top priorities will be to keep the momentum we have generated with new BoD membership and increased technical programming. As MPD relies on volunteer work, we welcome anyone who would like to pitch-in and help shape our Division.

Thanks for reading, and see you at ANTEC 2018!

-Pierre.

Are you interested in volunteering for the BOD?

Please email Pierre Moulinié
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



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

Are you interested in volunteering for the BOD?

Please email Pierre Moulinié
pierre.moulinie@covestro.com

MEDICAL PLASTICS DIVISION COMMITTEES

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

Are you interested in volunteering for the BOD?

Please email Pierre Moulinié
pierre.moulinie@covestro.com

MPD BOD CANDIDATE BIOS

Medical Plastics Division – Board of Director Candidate Bios

Ali Ashter – Rain Bird Corporation



Ali Ashter is a Principal Engineer at Rain Bird Corporation, has worked on developing medical devices from concept to commercialization, and in process development.

Ali holds a B.Eng. (Chemical Engineering) from the Aligarh Muslim University (India), a Ph.D. (Plastics Engineering) from the University of Massachusetts Lowell, and a Post-Doctoral Fellowship from McMaster University (Canada). Ali has published three books in Elsevier's Plastics Design Library series, Thermoforming of Single and Multilayer Laminates (2013), Introduction to Bioplastics Engineering (2016), and Technology and Applications of Polymers Derived from Biomass (2017).

Ali has been on the Medical Plastics Division (MPD) board of directors since 2012. In addition to serving on the Technical Program Committee, Ali has been serving as the MPD Treasurer since 2014. In 2013, Ali was part of MPD team that organized and chaired the MPD portion of the program for the first ever technical conference (TOPCON) in China that was jointly organized by MPD and Injection Molding Division.

Ali is completing his second 3-year term on the Medical Plastics Division (MPD) board of directors and would appreciate your vote to continue for another 3-year term.



MPD BOD CANDIDATE BIOS

Medical Plastics Division – Board of Director Candidate Bios



Suneel Bandi - Evonik

Suneel Bandi is a technical leader with broad industrial polymer experience. Currently Suneel is the Global Technology Leader - Medical (implant and non-implant) for EVONIK's High performance polymers group. He completed his PhD in Macromolecular Science and Engineering from

Case Western Reserve University.

Roles prior to joining Evonik include leading product development at Solvay Specialty Polymers and extensive management consulting experience with Newry Corporation in the domain of technology based market and strategy assessment. Suneel was also a significant technical contributor to Aeroclay Inc, a novel platform technology for lightweight applications.

Suneel has contributed to and presented several technical presentations on medical applications of polymers at prior ANTEC Medical Plastic Division sessions. By leveraging his global network access to medical customers, Suneel would like to contribute to the SPE MPD outreach programs and actively support technical programming at ANTEC.



MPD BOD CANDIDATE BIOS

Medical Plastics Division – Board of Director Candidate Bios



Margie Hanna – CEI

Margie Hanna is V.P. of Business Development for CEI, a product development consulting firm. She has a degree in Psychology from the University of Illinois Chicago, and has more than 20 years of experience in education, sales and marketing roles. She has served the Medical Plastics Division

by assisting with the MDM programming, has coordinated several membership recruitment efforts including arranging the MPD receptions at ANTEC and served on MiniTec committee. She served six years as Councilor for MPD.

Currently Margie is serving MPD as the chair of the Finance Committee. Margie Hanna would like to continue to serve the membership of MPD by election to the board.



MPD BOD CANDIDATE BIOS

Medical Plastics Division – Board of Director Candidate Bios



Ned LeMaster – Teel Plastics

Ned LeMaster earned a Bachelor of Science Degree in Chemical Engineering from Ohio University in 2003. While working towards his degree he worked as a lab technician for Kraton Polymers, and later as a Co-Op Student for DuPont in Zytel®/Minlon®/Rynite® Research and Development. During his time at DuPont, Ned gained experience with compounding via parallel twin screw extrusion, and worked on several Six Sigma Black Belt projects.

Upon graduation from OU, Ned took a position as Process Engineer with DuPont in the Teflon® division. Here, he supported the polymerization, extrusion, and waste water treatment processes for Tefzel® and FEP.

In the fall of 2005, Ned took the position of Technical Manager with Bergen International where he was later promoted to Director of Technical Service and Development. For ten years Ned serviced customers in a variety of industries and processes including Sheet and Profile Extrusion, Blown and Cast Film, Injection Molding, Rotational Molding, and Blow Molding. He developed several Chemical Foaming Agent formulations for a range of polymers and applications. Ned also built a foundation of knowledge in various regulatory requirements, and had articles regarding Chemical Foaming Agents published in several trade magazines.

In 2015, Ned took a position with INVISTA as process engineer for Raptor Nylon Pipe servicing the Oil and Gas Market. Here he led the successful startup of an extrusion facility for the product servicing a regulated market.

In December of 2016, Ned joined Teel Plastics as a Sr. New Product and Process Development Engineer. Again servicing several regulated markets. Ned was promoted to Director of Sales for Teel Plastics in 2017 and also joined the SPE MPD by appointment in 2017.



MPD BOD CANDIDATE BIOS

Medical Plastics Division – Board of Director Candidate Bios



Anil Mahapatro – Wichita State University

Anil Mahapatro, is an Associate Professor in the department of Biomedical Engineering at Wichita State University, Wichita, KS. Anil Mahapatro holds a BE (Bachelors of Engineering) in Polymer Engineering (University of Pune, India), MS in Polymer Science and Technology (University of Manchester, United Kingdom) and a PhD in Materials Chemistry from Polytechnic University, Brooklyn, NY, USA and a Post-Doctoral Fellowship (Biomedical

Engineering) from University of Texas at San-Antonio.

My research efforts have focused on developing novel biomaterials for clinical relevant applications. Current research projects include: development of novel polymeric biomaterials for 3D printing, biodegradable metallic implants for cardiovascular stents and fracture fixation devices, scaffolds for bone tissue engineering, multifunctional theranostic biodegradable nanoparticles for cancer therapy and bone sensors for detecting osteoporosis. I have secured external funding over \$2.5 million (PI and collaborative efforts) and have completed several projects in the field of biomaterials resulting in mentoring of 3 doctoral, 11 masters, and over 30 undergraduate students. I have 57 peer reviewed publications (29 peer reviewed journal papers, 22 peer reviewed conference papers and 6 book chapters), 3 patents, 2 books (“Biomaterials” and “Polymers for Biomedical Applications”) and over 50 presentations.

My past professional services have been mostly with American Chemical Society (ACS). I was the board member of Division of Polymer Chemistry (POLY) [ACS, 2002-2008] and Younger Chemists Committee (YCC) [ACS, 2004-2009]. I have served as the chair of Strategic planning subcommittee (YCC, ACS, 2008-2009), Division of Colloid and Surface Chemistry (symposium chair: Surface Chemistry in Biological & Medical Applications, 2009-2012). I was the primary symposium organizer of 5 symposiums at ACS national meetings including Biomaterials and Bioengineering (Fall 2009, ACS National Meeting, Washington, DC) and Polymers for Biomedical Applications (Fall 2006, ACS national meeting, San Francisco). I briefly served on the SPE MPD board of directors in 2005 and have received travel support while as a student from the Society of Plastic Engineers (1998). I would love the opportunity to serve in any capacity and give back to the professional society that has added immense value to me both at a professional and personal level.



Medical Plastics Division – Board of Director Candidate Bios



Arghavan Victoria Nawaby – Patina Solutions

Victoria is a senior member of SPE and has been a part of the society for 17 years. Since her admission in 2000 she served as a member of the board of directors - Thermoplastic Materials and Foams division between 2000 and 2010. She obtained her doctorate in Physical Chemistry from Carleton University (Ottawa, CANADA) in 1999, and her career in the plastics industry was initiated at the National Research Council of Canada as an NSERC Postdoctoral Scholar in polymer physics. She then joined the National Research Council of Canada and was an Associate Scientist with the council in Ottawa, CANADA between 2000 and 2007 conducting fundamental and industrial research in polymer – gas systems. In 2006 she was a visiting scientist at the National Science and Industrial Institute, Tsukuba Science City, JAPAN conducting fundamental investigations on biopolymers. In late 2007 she joined Sealed Air Corporation in Dallas - Texas, & Charlotte – North Carolina, USA as a corporate scientist and was a Technical Project Manager leading R&D project from infancy to commercialization with product applications in various markets segments. In March 2018 she joined Patina Solutions, Dallas Texas, USA as a technical professional and consultant. She has authored one book chapter, has over 21 refereed scientific publications, delivered 44 invited & conference presentations, holds one US and one European patent, and has 2 trade secrets.

Medical Plastics Division – Board of Director Candidate Bios



Maureen Reitman – Exponent

Dr. Maureen Reitman is a Principal Engineer, Corporate Vice President, and the Director of the Polymer Science and Materials Chemistry practice at Exponent, a multidisciplinary engineering and scientific consulting firm. At Exponent, she helps clients solve problems related to polymeric materials and associated processes, and improve polymer-containing products used in many industries, including medical devices.

Dr. Reitman is a Fellow of SPE and for at least ten years has held various leadership roles in the Medical Plastics Division, including Secretary and Chairman. She is also an active member of the Failure Analysis and Prevention SIG and contributes to SPE's New Technology Forum.

Dr. Reitman is currently completing a term as a board member, and would like to serve the Medical Plastics Division again in this role. She enjoys contributing to technical programming and facilitating professional development. As part of the board, she intends to continue to support MPD's various offerings related to new technologies, professional networking and career development in the medtech and biotech industries.



Medical Plastics Division – Board of Director Candidate Bios



Amin Sedighiamiri – Eli Lilly and Company

Amin Sedighiamiri is a Senior Consultant Engineer at Eli Lilly and Company, where he works on innovation programs in the Delivery and Device R&D organization. Amin is concluding a one-year “board of directors” appointment on the Medical Plastics Division as Technical Programming Committee

Member and ANTEC 2018 Co-Chair.

Amin holds a B.Sc. in Mechanical Engineering and a Ph.D. in Polymer Technology from Eindhoven University of Technology, where he worked on structure-property relation in semi-crystalline polymers. Before joining Eli Lilly and Company in 2016, he was a Senior Scientist in the Technology and Innovation organization of SABIC, where he led several projects related to design, manufacturing and performance of fiber reinforced thermoplastics in various industry segments.

Amin has expertise and experience in design of plastic parts, long-term (fatigue and creep) performance of polymers, fiber reinforced thermoplastics, structure-property relation in polymers, computer-aided engineering, project management and Lean Six Sigma. He has more than 30 technical publications with over 1000 citations.

Amin would appreciate your vote to continue serving on the Medical Plastic Division for 3-year BOD term and contribute to the organization by helping out in technical programming of SPE conferences, increasing division’s membership and generally any area the division may need additional help to advance over the coming years.



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!



NEWSLETTER EDITOR

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

Inside this edition of the newsletter you will find a few snapshots from recent medical plastics technical meetings and conferences such as China International Medical Equipment Fair (CMEF) in Shanghai and ChinaPlas 2018 (Thanks Pierre for snapping a few pictures).

Spring is also election season for your MPD Board of Directors. Please review the candidate bios (pages 9-15); active members will be notified via email to vote so please reconfirm your membership information and dues are current!

I am also very excited to announce our second external support for the MPD and newsletter. Please see the advertisement by Eastman on page 20!

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

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.

Sizes Available	(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 4th 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).

Thank-you for your support!

Want to Advertise?
Please email Louis Somlai
somlai_louis@lilly.com



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you win, from concept
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Solutions
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Want to Advertise?
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somlai_louis@lilly.com



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copolyester

**Quality materials.
Quality devices.**

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- Impact strength and durability
- Flame-retardant rating
- True color match and retention

Eastman.com/medical

The advertisement features a background image of several medical syringes. One syringe in the foreground is blue and labeled 'NuGen™'. The syringes are arranged diagonally across the frame. The text is overlaid on the left side of the image.

COUNCILOR'S REPORT



Report from Medical Plastics Division Councilor:

SPE Council recently held our annual elections for new Executive Board members. I am pleased to announce the results:

President-elect – Brian Landes

Vice-President of Divisions – Jason Lyons

Vice-President of Sections – Scott Eastman

Vice-President of Technology & Education – Ray Pearson

We congratulate these newly elected members who will start their terms at ANTEC 2018 and look forward to working with them!

Final preparations are being made for SPE's Annual Technical Conference, aka ANTEC 2018 to be held in Orlando, FL during the week of May 7th. This event co-located with NPE, will feature over 600 individual presentations during the expanded 4-day schedule. There will be student presentations and the always anticipated student poster session. In addition, there will be another edition of the Annual Parts Design competition among other featured activities. If you can find the time to serve as a judge for either of these competitions your help would be appreciated. But even if you are not able to judge, come to view the marvelous work of our very gifted student members who will be displaying their work during the Monday and Tuesday poster session time. Please stop by!

COUNCILOR'S REPORT

On Sunday before ANTEC begins, SPE will have its awards luncheon for recognition of SPE high achievers both Sections and Divisions Pinnacle award winners as well as SPE's Honored Service Members and Fellows of the Society. We will feature details of winners in upcoming newsletters.

I look forward to seeing you at ANTEC and encourage each of you to take advantage of this exciting conference and networking event. Attend the technical papers, panel sessions, various keynote presentations and of course, after each day's technical program, the various receptions! Come and have fun as well as expand your technical knowledge from those presenting the latest new technology. You will find ANTEC very worthwhile and of benefit to your career!

I welcome your questions or comments.

Len Czuba
Medical Plastics Division (D-36) Councilor

Do you have questions about MPD Membership?

Please email Ed Fewkes
fewkesej@corning.com

Are you interested in volunteering for the BOD?

Please email Pierre Moulinié
pierre.moulinie@covestro.com

TREASURER'S REPORT

TREASURER'S REPORT – Ali Ashter



Treasurers report as of May 01, 2018

Balance as of February 22, 2018 \$ 22,387.93

INCOME

Income Type	Amount
Newsletter Sponsorship	\$ 723.75
SPE Rebate	\$ 1,177.50
TOTAL INCOME	\$ 1,901.25

EXPENSE

Expense Type	Amount
Councillor's Expense, Chk# 122	\$ 781.50
TOTAL EXPENSE	\$ 781.50

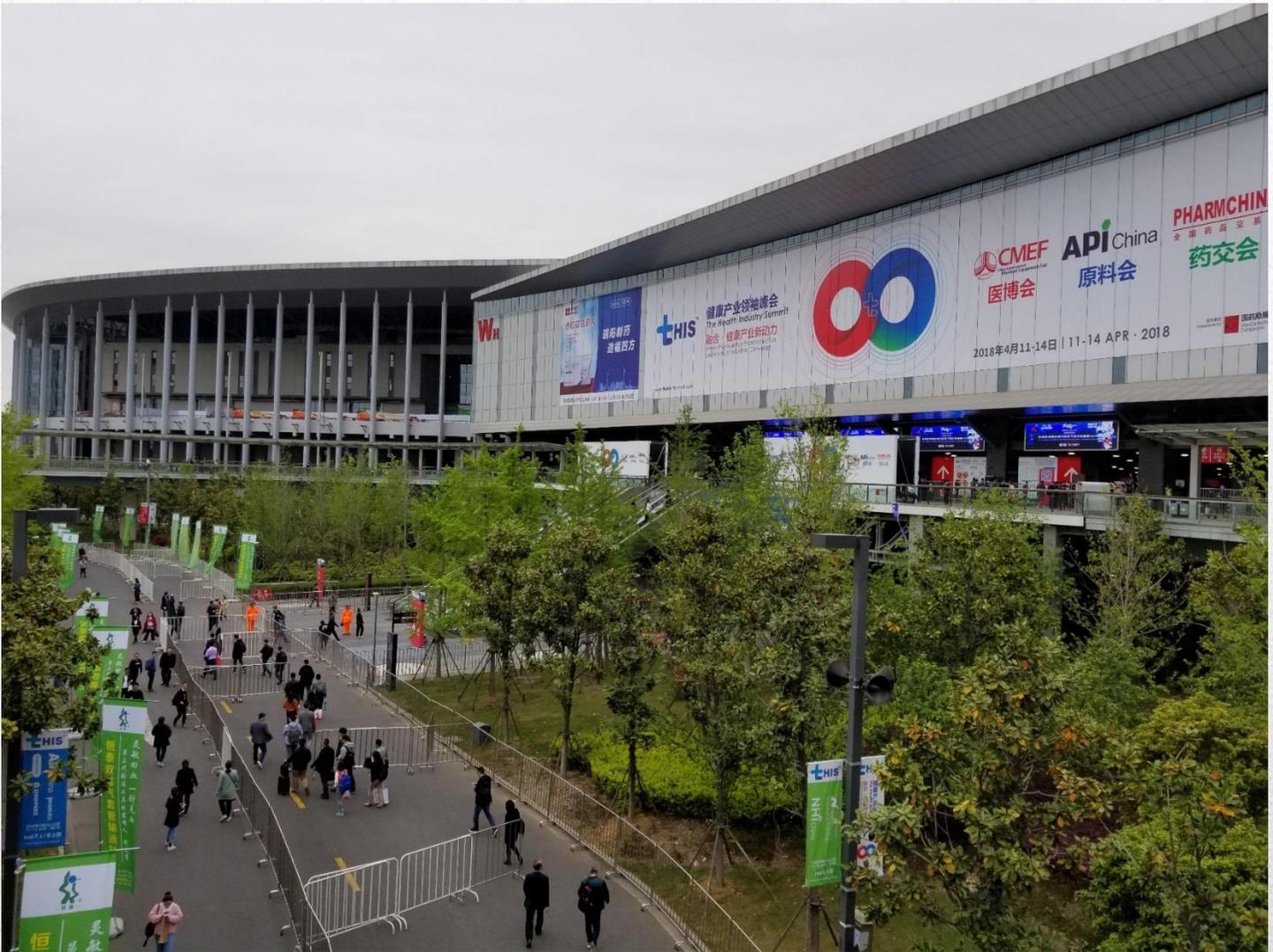
FUNDS AVAILABLE AS OF MAY 1, 2018 \$ 23,507.68

Do you have questions about the Treasurer Report?

Please email Ali Ashter
ashter2000@gmail.com

China International Medical Equipment Fair

Check out what you missed...



China International Medicinal Equipment Fair (CMEF):
CMEF was launched in 1979, is held twice annually – spring and autumn. After 38+ years of continuous innovation and self-improvement, CMEF has become the largest fair of medical equipment, related products and services in the Asia-Pacific region. The fair widely covers 15,000 products such as medical imaging, IVD, electronics, optics, first aid, rehabilitation nursing, medical IT and outsourcing services, and it serves the entire value chain of medical devices, source to the end, in a direct and all-round way.

China International Medical Equipment Fair

Check out what you missed...



At each fair, almost 4,200 medical device manufacturers from over 28 countries, and about 120,000 people who are government procurement agencies, hospital buyers and dealers from over 100 countries and regions gather in CMEF for trading and exchanges; With in-depth professional development of the exhibition, CMEF has initiated conference forums and established a series of sub-brands in medical field including CMEF Imaging, CMEF IVD and ICMD. Now CMEF has become the largest professional procurement and trade platform of the medical industry, the best corporate image release ground as well as a professional information distributing center and an academic, technical exchanging platform.

China International Medical Equipment Fair

Check out what you missed...



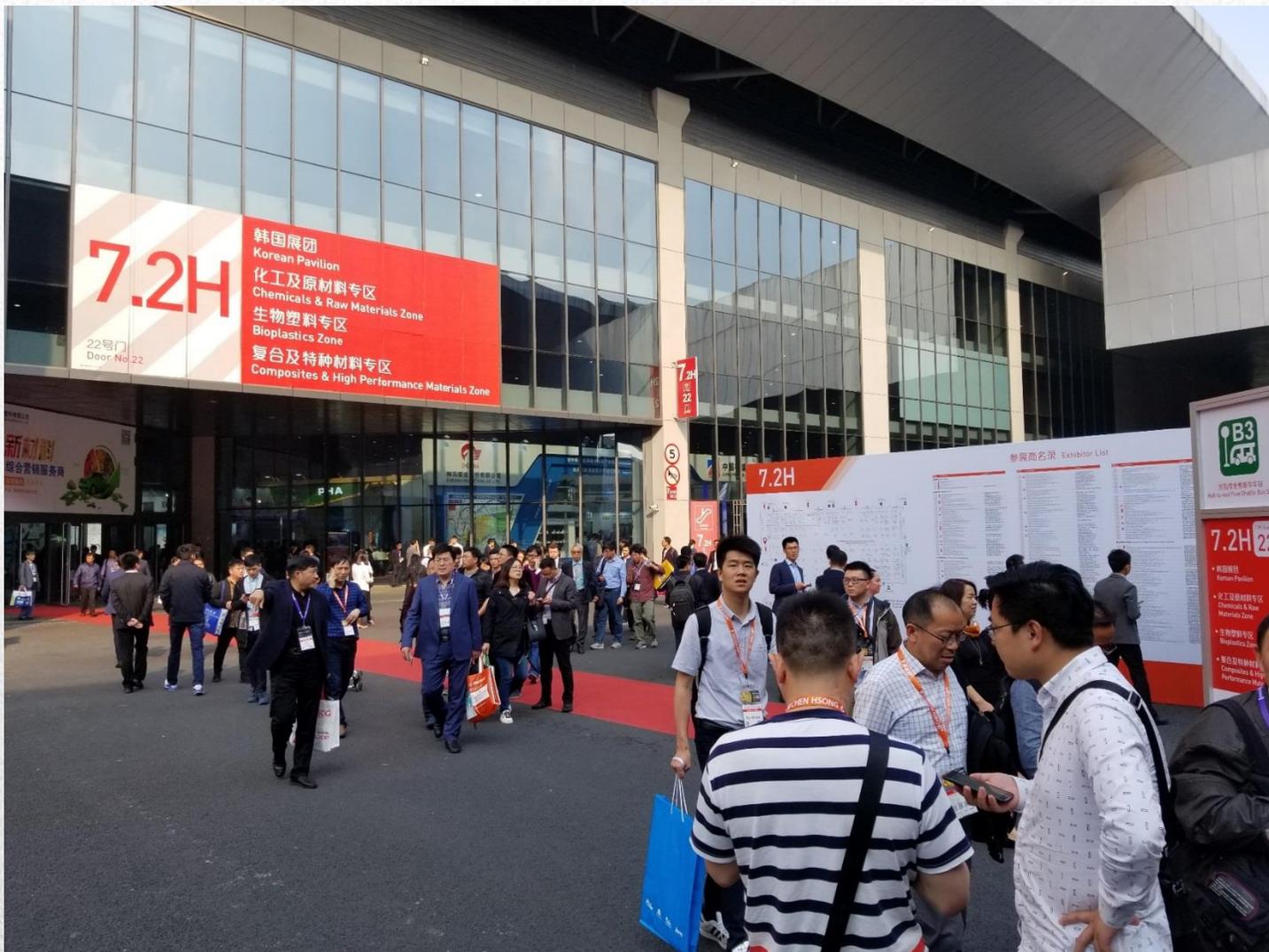
The CMEF is held in the Shenzhen Convention and Exhibition Center: a large public building in Futian Central Business District, Shenzhen, China. With total floor space of ~3,000,000 sqft, it is the largest single structure building in Shenzhen.

Check out what you missed...



Pierre Moulinie (Covestro) attending the CMEF

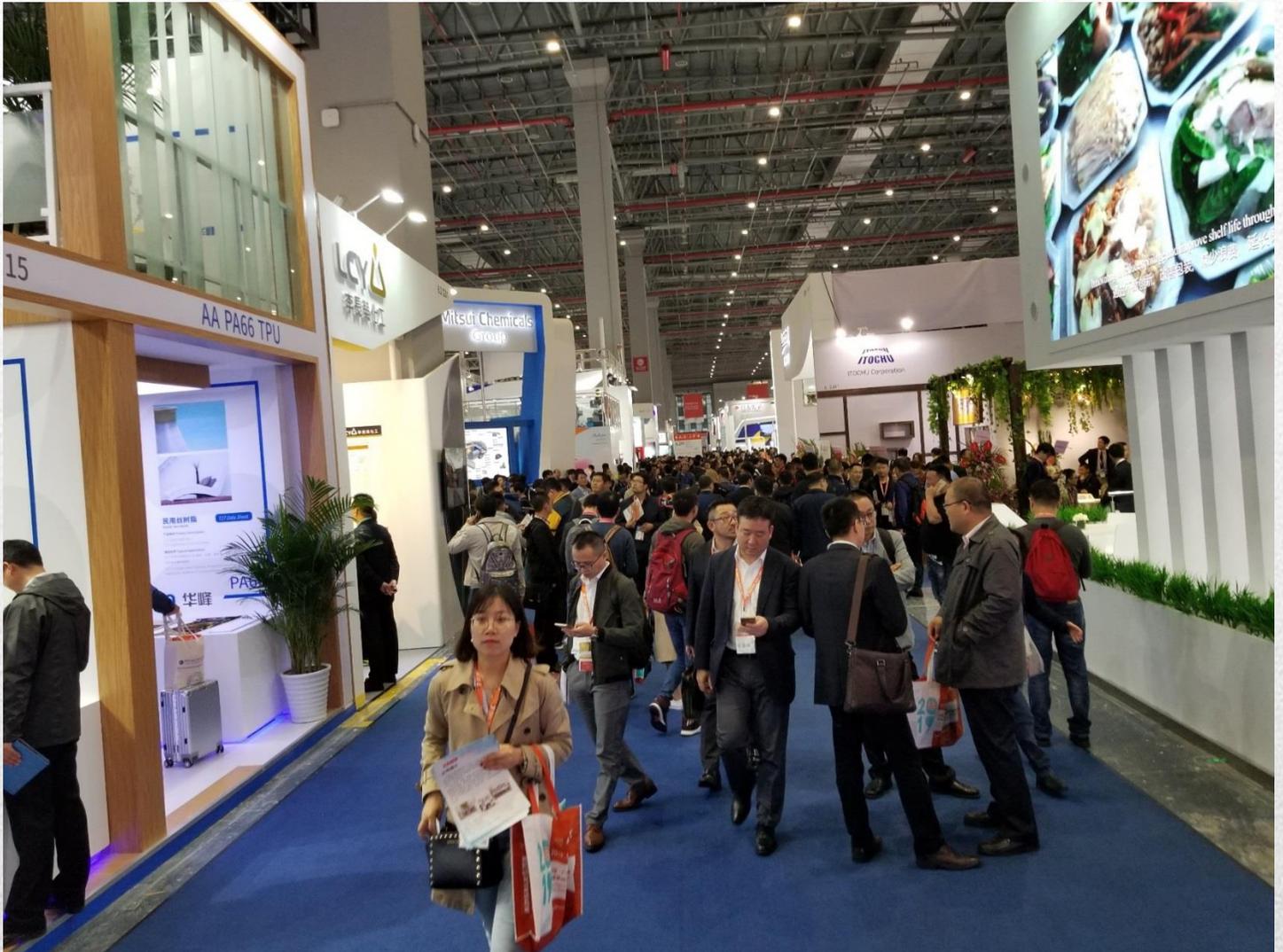
Check out what you missed...



CHINAPLAS 2018: Accompanying the growth of China's plastics and rubber industries for over 30 years, CHINAPLAS has become a distinguished meeting and business platform for these industries and has also largely contributed to their prosperous development. At present, CHINAPLAS is not only the largest plastics and rubber trade fair in Asia, it is also widely recognized by the industry as the 2nd most influential exhibition in the world. Its significance is surpassed only by K Fair in Germany, the world's premier plastics and rubber trade fair.

CHINAPLAS 2018

Check out what you missed...



CHINAPLAS 2018 or the 32nd International Exhibition on Plastics and Rubber Industries was held in National Exhibition and Convention Center, Hongqiao, Shanghai (NECC) April 24 – 27, 2018

STATISTICS: ~3,650,000 sqft of exhibition space, 4,000 exhibitors, 40 countries, 180,000+ visitors

Check out what you missed...



CHINAPLAS was held for the first time at the National Exhibition and Convention Center (NECC) in Hongqiao, Shanghai, PR China

Check out what you missed...



Pierre Moulinie (Covestro) presenting at CHINAPLAS 2018

BIOMEDevice Conference

Check out what you missed...



60+

Expert Speakers

35+

Hours of Education

2,500+

Medtech Peers

Three Leading Shows. One Powerful Event.

BIOMEDevice Boston is part of New England's largest advanced design and manufacturing event, bringing the region's biggest comprehensive showcase of plastics, design engineering, embedded systems, and medtech components and technologies onto one show floor.

NEW! Today's leading plastics suppliers — previously featured separately as PLASTEC New England — will be showcasing within this year's BIOMEDevice Boston. Expect even [more plastics exhibitors](#) offering the very latest in materials and additives, injection molding, rapid prototyping, and more.

BIOMEDevice
An MD&M Event

Design & Manufacturing
A Design News Event | NEW ENGLAND

ese
EMBEDDED SYSTEMS CONFERENCE

The 2018 BIOMEDevice conference and exposition was held in Boston, MA. BIOMEDevice connects over 4,500 engineers and executives — and over 450 leading suppliers — across New England's thriving medtech industry. In partnership with the Massachusetts Medical Device Industry Council (MassMEDIC), BIOMEDevice Boston is a powerful end-to-end industry showcase covering today's emerging biomedical trends and innovations.

BIOMEDevice Conference

Check out what you missed...



**“Criteria for Choosing the Right Material for Your Medical Device”
Presented by: Vipul Davé (Research Director & Fellow, Global OTC
Technology, Johnson & Johnson)**

UPCOMING EVENTS



ANTEC® 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

Joining of Plastics & Composites

Advanced Energy

Medical Plastics

Alloys & Blends

Mold Technologies

Applied Rheology

Plastic Pipe & Fittings

Automotive

Plastics in Building & Construction

Bioplastics

Polymer Analysis

Blow Molding

Polymer Modifiers & Additives

Color & Appearance

Product Design & Development

Composites

Reaction Injection Molders

Decorating & Assembly

Rotational Molding

Electrical & Electronic

Sustainability

Engineering Properties & Structure

Thermoforming

Extrusion

Thermoplastic Elastomers

Failure Analysis & Prevention

Thermoplastic Materials & Foams

Flexible Packaging

Thermoset

Injection Molding

Vinyl Plastics

Medical Plastics Division

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

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 Afternoon

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

UPCOMING EVENTS



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Wednesday Afternoon

1:30 pm - 6:00 pm	W17-Medical Plastics: Materials and Processing for Medical Applications
1:30 pm - 2:00 pm	<i>KEYNOTE: Medical Tubing Process Optimization with Simulation</i> John Perdikoulis, Compuplast International Inc.
2:00 pm - 2:30 pm	SYSTEMS ENGINEERING FOR MEDICAL DEVICE DEVELOPMENT: APPLICATION TO INSULIN PUMPS Marc Horner, ANSYS, Inc.
2:30 pm - 3:00 pm	Effects of the Biological Environment on Thermoplastic Polyurethanes Ajay Padsalgikar, Abbott
3:00 pm - 3:30 pm	Accounting for Differences in Modulus and Stress Relaxation Behavior in Plastics Undergoing Chemical Resistance Testing Mark Yeager, Covestro LLC
3:30 pm - 4:00 pm	Degradation Products of Medical Devices in Complex Biological Environments: Risk Assessment Strategies Adam Kozak, Cambridge Polymer Group
4:00 pm - 4:30 pm	ACCELERATED AGING OF MEDICAL-GRADE RESINS: Q10 FACTORS AND MATERIAL AGING MODELS Rob Klein, Stress Engineering Services
4:30 pm - 5:00 pm	Engineered Polymer Surfaces for Superior Performance in Pharmaceutical Applications Prakash Iyer, Inhance Technologies
5:00 pm - 5:30 pm	Supercritical Carbon Dioxide Assisted Extrusion of Graphene Nanofiller Reinforced Polymers for Biomedical Applications 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 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

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



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



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