



Society of Plastics Engineers Medical Plastics Division ELECTION 2017 Special Edition Newsletter



GREETINGS FROM THE CHAIR



Dear fellow Medical Plastics Division members:

It's election time, again! This is somewhat of a special newsletter, since we are focusing on the balloting. In this issue, we present the candidates that answered our call to get involved with our Division and are seeking three year terms with the

Medical Plastics Division Board of Directors.

A link will be coming via email to vote for five available positions. We are trying to make voting as convenient to you as possible, and we are counting on high membership turnout for this election. Please make your voice heard and vote!!!

Best regards,
Pierre Moulinié

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Norris Tollefson
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Why not you?



**Why not your
colleague?**



Why not you?

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

GREETINGS FROM THE NEWSLETTER EDITOR



Greetings fellow Medical Plastics Division members!

Welcome to the 4th edition of our refreshed newsletter! I appreciate your efforts to help me improve this communication tool; again please keep the feedback coming my way: somlai_louis@lilly.com

This “Election 2017” special edition is dedicated to the upcoming elections for the board of directors. You will see **10 candidate bios** for the MPD Board of Directors: these candidates are seeking your consideration (and vote) to serve 3 year (2017-2020) roles. There are a total of **5 open board positions**, so please consider all candidates carefully and vote!

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.

With respect to ANTEC2017: expect a full report in the 3Q2017 newsletter!

Finally, we are interested in getting to know more about you, how we can best work together to make the MPD a great SPE division, and to maximize the value of your membership. To that end: I need your feedback to improve the newsletter. I look forward to hearing from you!

Best regards,
Louis Somlai

Newsletter Suggestions? Want to Advertise?

Please email Louis Somlai
somlai_louis@lilly.com



Medical Plastics Division – Board of Director Candidate Bios



Ravi Ayyar – Eli Lilly and Company

Ravishankar (Ravi) Ayyar is a Senior Consultant Engineer in the Delivery and Device Research and Development business of Eli Lilly and Company. After attending the Medical Plastics Division (MPD) board of directors meeting at SPE ANTEC 2017, Ravi is highly interested in MPD professional

activities would appreciate the opportunity to serve on the board.

Ravi has volunteered to serve on the Technical Program and Membership Committees during the ANTEC 2017 board meeting. He is interested in helping to organize and execute a mini technical conference in Indiana planned for later 2017 as well as technical programming for the SPE ANTEC 2018 conference.

Ravi holds a bachelor's degree (Polymer Engineering) from the University of Pune, India, MS (Polymer Engineering) from the University of Akron, Ohio and Ph.D. (Polymer Science & Engineering) from Case Western Reserve University in Cleveland, Ohio. Prior to Eli Lilly and Company, he served as the Technical Manager at Lehigh Technologies in Atlanta from 2009 to 2012 and as a Senior Research Scientist at PolymerPlus LLC in Cleveland from 2013 to 2016.

Medical Plastics Division – Board of Director Candidate Bios



Edward J. Fewkes – Corning Inc.

Ed received his undergraduate degree in chemistry from Rensselaer Polytechnic Inst. in Troy, NY and his PhD in organo-metallic chemistry from Princeton University in Princeton, NJ. After completing his studies Ed was a staff and developmental scientist with GE plastics at the GE R&D center in Niskayuna, NY and the Parkersburg, WV Development Center. While at GE, Ed worked in materials chemistry, reactive extrusion and in PC/ABS blends. Ed then began his career at Corning Inc where he has been for the last 22 years. In that period of time he has held positions as a scientist and manager in both research and development and worked with all of Corning's major businesses, especially Corning optical Fiber, Corning Cable Systems, and Corning Life Sciences. Currently Ed is the Director of the Organic Technology group at Corning Inc.'s Sullivan Park Research and Development Center. He currently holds 33 US patents in materials and biomaterials. Ed has also been an active SPE member since 1990 and a member of the Medical Plastics Div. and Alloys and Blends division of SPE.

Medical Plastics Division – Board of Director Candidate Bios



Dave Jaekel – Exponent

Throughout my career, I have specialized in the design and manufacturing of composite polymers for orthopaedic and spinal applications. I have extensive experience in polymer composite fabrication, materials characterization techniques, and biofouling on polymer surfaces. I am currently a manager in the Biomedical Engineering Division of Exponent and have previously worked as a product development engineer for a start-up firm designing a minimally invasive hydrogel spinal nucleus implant. My doctoral research at Drexel University focused on developing silver composite polyetheretherketone (PEEK) biomaterials and investigating the effects of the inclusion silver particulates on bacterial adherence. My research also involved direct manufacturing of composite materials with high temperature injection molding, extrusion, and compression molding methods. My early graduate work included the development and validation of a test method for measuring crystallinity in PEEK materials using reflectance Fourier transform infrared spectroscopy. A summary of this study was presented at the ANTEC 2009 meeting. I have additionally published multiple abstracts and papers involving the characterization of PEEK and have co-authored multiple chapters in the PEEK Biomaterials Handbook. I believe I can be a critical asset to the Medical Plastics Division of SPE, and I'd be honored to participate.

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.

Medical Plastics Division – Board of Director Candidate Bios



Arghavan Victoria Nawaby – Sealed Air Corporation

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, USA as a corporate scientist. She is currently a Technical Project Manager at Sealed Air leading R&D project from infancy to commercialization with product applications in various markets segments. 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



Ajay Padsalgikar – Abbott

Ajay graduated with a degree in Polymer Engineering from the University of Poona, India in 1990. He then completed a PhD from Clemson University, SC, USA in 1996. In his PhD, he worked on the micro-rheology of polymer blends and their resultant structure formation in the process of fiber spinning. His first work assignment after his education was at the

Research & Technology Center in Everberg, Belgium at ICI Polyurethanes.

At ICI, Ajay worked mainly on the processing of polyurethanes, thermoplastic as well as thermoset. In 1999, ICI Polyurethanes became Huntsman Polyurethanes. Ajay's work continued in the field of processing of polyurethanes but became more focussed on computer modelling and simulation of the different processes including polyurethane synthesis.

In the middle of 2002, Ajay joined AorTech Biomaterials in Scotland from where he was transferred to Australia in late 2002. He served as the Chief Scientific Officer of the company and various projects that he was involved with included polyurethane bulk and solution synthesis, chemical engineering of the synthesis of raw materials for polyurethanes, processing of polyurethanes for medical devices.

Ajay joined St Jude Medical in December 2012 as a Senior Principal Scientist and has been involved with material development, application and characterization in the cardiac space. St. Jude Medical was acquired by Abbott in 2017.

Ajay has more than 30 published scientific papers and 10 patents. In 2017, a book titled 'Plastics in Medical devices for Cardiovascular Applications' authored by Ajay was published by Elsevier.

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 advanced development and innovation programs in the Delivery and Device Research and Development organization. Amin holds a B.Sc. in Mechanical Engineering from University of Mazandaran and a Ph.D. in Polymer Technology from Eindhoven University of Technology, where he worked on structure-property relation in semi-crystalline polymers. After completing his studies, Amin joined the Technology and Innovation organization of SABIC as a Scientist, where he contributed to several projects related to design, manufacturing and performance evaluation of complex fiber reinforced thermoplastic components in various industry segments, like automotive, water management, etc. He then became Senior Scientist in the same organization and led several cross-functional application development and competency development projects through various stages, from idea generation and initial proof of concept to customer engagement and validation. Amin has expertise and experience in design of plastic parts and assemblies, durability analysis (fatigue and creep lifetime evaluation), fiber reinforced thermoplastics, structure-property relation in polymers, material testing and characterization, computer-aided engineering, finite element analysis, project management and Lean Six Sigma. He has more than 30 technical publications with over 1000 citations. He has also filed two patent applications on thermoplastic parts with improved acoustic performance as well as anisotropic fatigue and creep accelerated testing protocol, embedded in integrated simulation framework.

Amin is interested in joining the Medical Plastic Division Board and looking forward to contributing to the organization by helping out in technical programming of SPE conferences (ANTEC, MiniTecs, etc.), reviewing articles and abstracts, increasing division's membership and generally any area the division may need additional help to advance over the coming years.

Medical Plastics Division – Board of Director Candidate Bios



Louis Somlai – Eli Lilly and Company

Louis Somlai is a Senior Consultant Engineer in the Delivery & Device Research & Development business of Eli Lilly and Company. Louis is completing a 1 year appointed term on the Medical Plastics Division (MPD) board of directors as the Newsletter Editor and would

appreciate your vote to continue for a 3 year term. In addition to updating the MPD Newsletter Louis is interested in contributing to the organization and execution of technical programming at SPE conferences such as ANTEC and increasing membership in the MPD by actively supporting new member recruitment initiatives. Louis holds a B.Sc. (Applied Chemistry) from the University of Calgary, a Ph.D. (Polymer Science & Engineering) from the University of Southern Mississippi, and a Post-Doctoral Fellowship (Plastics Engineering) from Case Western Reserve University. Louis recently completed his MBA (Management) from Delta State University.

Medical Plastics Division – Board of Director Candidate Bios



Nitin Sood – Getinge Group

Nitin is presently a Sr. Extrusion Engineer Manufacturing at Getinge group. Moved to United States from India in 2007 to pursue Master in Engineering (2010), he has been in the plastics industry ever since, having worked in commodity, biotech and now in medical. He has worked in both engineering spaces that include R&D and Manufacturing, he has great knowledge and understanding of what it takes to get a product to the market. Nitin was recently joined by his wife from his native country and together they plan on traveling to tourist and historical destination around Europe

Medical Plastics Division – Board of Director Candidate Bios



Harrison Yu – Bondable Biopolymers LLC

Hello, my name is Harrison Yu, and I am running for the MPD Board. I believe that Medical Plastics industry and its professions still have great potential and potentials will be released if I am elected. Why? It is because I have created a brand new thinking system – a system of thinking through direct factors. If I am elected, MPD programs will advance both science and technologies all through direct factors. Thanks for your support, and have a great one!

Professional Experience

CEO of Bondable Biopolymers, LLC since 2009, invented a method of making devices from biopolymers and additives in biomedical applications, US patent 9,370,482 June 21, 2016. Worked for ThermoFisher Scientific Biopharma Division as senior chemist in developing control release products from 2002 to 2008, six granted US patents.

Positions held within SPE

1. SPE Medical Plastics Division (MPD) board director 2007 – present, Technical Program Chair (TPC) for SPE Medical Plastics TOPCON 2013 China
2. Councilor from Polymer Analysis Division (PAD) 2016 – present, Chairman for PAD 2009 – 2011, TPC for ANTEC 2009 from PAD
3. Chairman for SPE Global Leaders Identification and Development Subcommittee 2008 – 09
4. Councilor from Market and Management Division (MMD) 2006 – 2009, Acting TPC for ANTEC 2010 from MMD

NEWSLETTER SPONSORSHIPS

Sponsors...

We are now 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 Newsletter, please consider taking part in this important communication effort.

Sizes Available	(Full year amount, i.e. 3 issues)	
	Full page (8½" X 11")	\$2,500
	Half page	\$1,500
	Quarter page	\$800
	Eighth page	\$500

The newsletter, as scheduled, is prepared and circulated **three times per year** (*plus the occasional 4th or bonus issue*). Every Medical Plastics Division member, approximately **650**, 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) with your camera ready copy and payment.

Thank-you for your support!

Councilor's Report – Len Czuba



09 June 2017 Councilors Report:

During the weekend before ANTEC 2017 in Anaheim CA, SPE governance met for Council meetings and with various Council committee meetings as is tradition. This leadership group finished the 2016 – 2017 SPE year with our first Council meeting in which outgoing SPE president, Scott Owens reviewed the major accomplishments that took place under his leadership and introduced the incoming Executive Committee for the incoming year. Some of the most meaningful business reported was the following:

The announcement of our new Executive Director, Mr. Patrick Farrey (pronounced “far-ee”) to replace Wim DeVos who has chosen to step down from the position.

Celebration of our 75th anniversary of the founding of the Society of Plastics Engineers.

Adoption and implementation of the restructuring of the top level of governance with the new leadership model of vice-presidents elected to serve specific positions in various areas of responsibility such as marketing, finance, technology and young professionals.

Introduction of newly elected vice-presidents and the incoming Executive Board.

Review of the financial position including a 3-year operating plan, showing that 2017 is expected to close in the black with a net profit of approximately \$16K.

Councilor's Report Continued

Announcement that the agreement with publishing company, Wiley who has agreed to and committed to be the publisher of the SPE magazine "Plastics Engineering" as well as our SPE Journals has been finalized. This agreement has been re-negotiated and is to be for a period of 10-years.

Recognition of newly elected Honored Service members and Fellows of the Society (including our board member, Vipul Dave) as well as those Sections and Divisions which won Communication Awards and the Pinnacle award (which Medical Plastics Division won Gold!).

The second meeting of Council on ANTEC weekend was convened by newly commissioned president, Dr. Raed Al-Zubi. This was the first meeting of the new SPE operating year and it gave Dr. Al-Zubi a chance to introduce his board members, (see full listing at the following link: <http://www.4spe.org/Leadership/Content.aspx?ItemNumber=6486&nav1>) and to outline his plans for the year. There were other business matters handled by Council including updates to the Bylaws and Policies, a review of events planned during the year and a presentation by SPE HQ staff on the various resources available to SPE membership. All SPE members especially leadership boards of directors have been encouraged to make better use of the Chain and other SPE website resources for S/D operations including communication and membership.

Please see full reports from each presenter on the Chain under Leadership Lane. I would also be willing to speak to anyone that has comment or questions.

With warm regards,
Len

Len Czuba - MPD Councilor

UPCOMING EVENTS – PLASTICS 3D: Material Advances for Additive Manufacturing



Organized
by



Plastics News

About Plastics 3D


Additive manufacturing is rapidly evolving as a necessary component for a successful plastics-related business. Such advantages as enhanced speed of production, cost efficiency and the rapid creation of ready-to-be produced parts cannot be overlooked. System costs are continually declining, while technology is improving dramatically.

Plastics News and the Society of Plastics Engineers (SPE) are proud to present **Plastics 3D**, an inaugural conference addressing the use of plastics materials in additive manufacturing. This novel industry event will focus exclusively on material applications that drive development in all major markets, where end users are asking for new production approaches.

The conference will be held on Aug. 14-15, 2017, at the JW Marriott Hotel in Indianapolis. Plastics 3D will offer enlightening discussions on how plastics processors and suppliers are embracing additive manufacturing technology, the novel use of materials for plastics parts and the tangible results for customers.

<http://www.plasticsnews.com/section/events/1190/plastics-3D>

TREASURER'S REPORT – Ali Ashter

<u>MEDICAL PLASTICS DIVISION-S.P.E.</u>	
Treasurers report as of June 05, 2017	
Balance as of May 31, 2017	\$20,900.81
<u>RECENT INCOME</u>	
SPE Rebate (2017 1st Quarter)	\$1,177.55
<u>EXPENSES</u>	
Reimbursement to Pierre M (June)	\$ (815.35)
Funds available as of June 05, 2017	\$21,262.96
<u>UPCOMING EXPENSES</u>	
NOTES	
<i>Ali Ashter</i>	
Treasurer - MPD	

Do you have questions about the Treasurer Report?

Please email Ali Ashter
ashter2000@gmail.com

2017 CALENDAR – SPE WEBSITE (WWW.4SPE.ORG)

- 27 Relfocus Sustainability & Recycling Summit**
Jun June 27-29, 2017, Rosen Shingle Creek, Orlando, Florida, USA
- 1 Injection Molding Innovations Conference**
Aug August 1-3, 2017, Oak Brook, Illinois (near Chicago)
- 14 Plastics3D**
Aug August 14-15, 2017, Indianapolis, Indiana
- 24 2017 The Future is Plastics: A Celebration of SPE's 75th Anniversary & Plastics News Rising Stars**
Aug August 27, 2017, The Gem Theatre, Detroit, MI
- 6 17th Annual Automotive Composites Conference and Exhibition (ACCE)**
Sep September 6-8, 2017, Novi, Michigan
- 11 Thermoforming Conference®**
Sep September 11-13, 2017, Orlando, Florida
- 17 Color and Appearance Conference: (CAD RETEC®)**
Sep September 17-19, 2017 Milwaukee, Wisconsin
- 1 Automotive TPO Conference**
Oct October 1-4, 2017, Troy Marriott (Detroit Suburbs), Michigan
- 2 Blow Molding Conference**
Oct October 2-4, 2017 Oak Brook, Illinois
- 4 I SPE PLASTICS e-VOLUTION CONFERENCE: From Molding to 3D Printing**
Oct October 4-5, 2017, Fira, Barcelona, Spain
- 9 SPE Foams® Conference**
Oct October 9-12, 2017, University of Bayreuth, Germany
- 10 Vinyltec® 2017 Conference**
Oct October 10-12, 2017, San Antonio, Texas
- 15 Flexible Packaging Conference**
Oct October 15-18, 2017, Naples Florida
- 6 Design in Plastics**
Nov November 6-8, 2017, Detroit, Michigan
- 8 47th Annual SPE Automotive Division Innovation Awards Gala**
Nov November 8, 2017, Livonia (Detroit) Michigan



Newsletter Suggestions?

somlai_louis@lilly.com

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

23 Forum by JEC & SPE Composites for Performance in Sports

Jan January 23-24, 2018, Long Beach, CA, USA

20 Thermoset 2018 Conference

Feb February 20-21, 2018, Indianapolis, Indiana

20 Thermoset Topical Conference 2018

Feb February 20-21, 2018, Indianapolis, Indiana

25 International Polyolefins Conference

Feb February 25-28, 2018, Houston, Texas

14 11th European Thermoforming Conference

Mar March 14–16, 2018, Rome, Italy

7 ANTEC® Orlando @NPE2018

May May 7-9, 2018, Orlando, Florida

18 Thermoplastics Elastomers Conference

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 24-27, 2018, Fort Worth, Texas

7 Automotive TPO Conference

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



Newsletter Suggestions?

somlai_louis@lilly.com