

Society of Plastics Engineers Medical Plastics Division Newsletter December 2016



### **GREETINGS FROM THE CHAIR**



A Brief Look Back Before Forging Ahead



Dear fellow Medical Plastics Division members:

With this Medical Plastics Division newsletter we bring an extremely busy 2016 to a close and look

ahead to 2017. In addition to our own MiniTec and ANTEC conferences in the Spring, many of our members were busy with the K Fair and Compamed in the Fall.

Among the highlights we can look forward to are the Medical Plastics Conference in Brussels (March 7-8) and of course ANTEC 2017 (May 8-10) in Anaheim. At last years' conferences we saw that Innovation to meet the challenges to healthcare was alive and well; the programming that is coming together for this years' conferences also tells us this should continue into 2017.

MPD is very fortunate to have dedicated Board Members and this year we will be sending you a Ballot to elect MPD Board Members. This is also an invitation to those interested in joining the MPD board to be on the Ballot also. Among our standing agenda items at our meetings was to discuss our upcoming Technical Programs, we will continue to share ideas to be Plastics Innovators and help disseminate knowledge and technology – or said otherwise, to better deliver Value to the membership. We certainly welcome your input on this process and encourage you to connect with us.



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

As this brings the year to a close, I won't miss the opportunity to thank all the members, board members, speakers, moderators and panelists that helped make it all possible. Thank you!!!

> Best regards, Pierre Moulinié



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#### **MEET YOUR SPE MPD BOARD OF DIRECTORS**



Pierre Moulinié Division Chair



Norris Tollefson Past Chair



Vipul Davé TPC Chair



#### Ali Ashter Treasurer/Finance/TPC



Ben Poon Secretary



Len Czuba Councilor/Finance/TPC



Louis Somlai Newsletter



Nitin Sood Communications Chair



Michael Wallick Awards

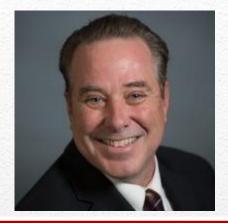
#### **MEET YOUR SPE MPD BOARD OF DIRECTORS**



Margie Hanna Finance



Bob Herman Education



Steve McCarthy Finance Chair



Lorie Lodico Communications



**Bhavin Shaw** 



Glenn Beall Emeritus/Historian



Maureen Reitman Awards / TPC

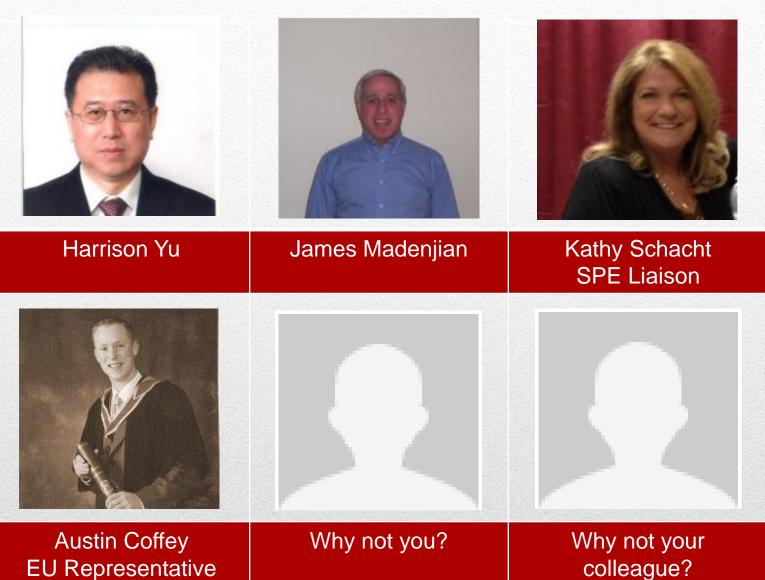


Mark Bonifacio



Ed Fewkes Membership Chair

#### **MEET YOUR SPE MPD BOARD OF DIRECTORS**



# 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 colleague?

#### **GREETINGS FROM THE NEWSLETTER EDITOR**



Seasons Greetings fellow MPD members! Welcome to the 2<sup>nd</sup> edition of our refreshed newsletter! My most sincere thanks to everyone who has sent me feedback on the new format. I appreciate your efforts to help me improve this communication tool; again please keep the feedback coming my way: <u>Issomlai@yahoo.com</u>

Inside you will find some highlights from the 2016 K-Show and 2016 Compamed show: both conventions were attended by MPD members who sent back some reports to share. For this edition I have also had to use a few "stock photos" from some of the shows. It's tough sometimes to get everything done: your work, see the show, think about what might look / sound interesting in the MPD newsletter, and then remember to take photos... As someone once said: "memory is the 2<sup>nd</sup> thing to go... I can't remember the 1<sup>st</sup>!"

As always: 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 membership to you. 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 Issomlai@yahoo.com



#### 2016 K-SHOW UPDATES – Check out what you missed...



K-Show Summary – by Vipul Davé

K-Show was held in Düsseldorf, Germany, from October 19-26, 2016. Visitor numbers for K2016 set a new attendance record of 230,000 and has been recognized as the number one plastics technology exhibition. The attendance was up by 5.5%

on the previous event in 2013, and most exhibitors described it as the most successful K of all time.

A few members of the SPE's Medical Plastics Division attended the K-Show. There were more than 3,000 exhibitors at the show, so my main focus was on plastic resin suppliers. All the prominent resin suppliers for the medical industry were exhibiting at the Show namely, Covestro, Solvay, BASF, Arkema, Trinseo, Evonik, Trellenborg LRS, Victrex (Invibio), Celanese and EMS Grivory.

There were new materials introduced during the Show including Celanese's two Celapex<sup>™</sup> high flow PEEK grades to improve molding productivity and reduce part costs; and BASF's high-temperature polyamide Ultramid® Endure. Celanese's also announced acquisition of Italian compounder So.F.Ter Group at the Show.



The World's No. I Trade Fair for Plastics and Rubber

Düsseldorf, Germany

See you next time 16-23 October 2019

#### 2016 K-SHOW UPDATES – Check out what you missed...

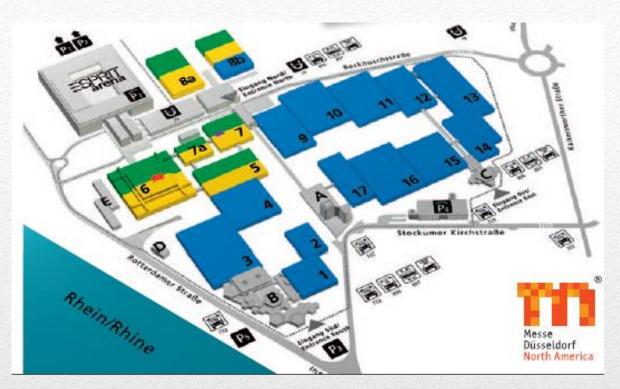


Willkommen zur Messe Düsseldorf: if you came to K2016 it was most likely on the U78 line: these trains were packed at the beginning and end of the day (Louis Somlai photo)



Main Registration Messe Düsseldorf: a view of the main registration hall (just past the entry gates; K2016 stock photo)

#### 2016 K-SHOW UPDATES – Check out what you missed...



**K-Show Overview:** K-show space dedicated to: machinery & equipment (blue), raw materials and auxiliaries (green), semi-finished products and parts (yellow), "Plastics Shape the Future" exhibit (red), and Science Center (purple). Over 1.8MM square feet of exhibit space for plastics.



A chance encounter at K-Show: (L-R: Vipul Davé, Louis Somlai) Vipul and I [unaware each other was at the show] spontaneously meet in the middle Hall 5 (there are 19 total halls [completely filled] at K2016!)



Compamed Summary – by Louis Somlai

Compamed was held in Düsseldorf, Germany, from October 14-17, 2016; it is a trade fair for suppliers and manufacturers of medical technologies. The show featured products for medical pre-production, prefabricated parts, components, and sub-products for

medical equipment and processes for "made to order" manufacturing. The trade fair was co-located with the Medica show (which focused more on good and services for hospitals and hospital staff).

I would classify the combined Compamed-Medica gala as the premier European show for the medical device commercialization and development space. The show provided visitors a great overview of the medical device business and an opportunity to see future trends and factors which have been driving recent innovation trends.

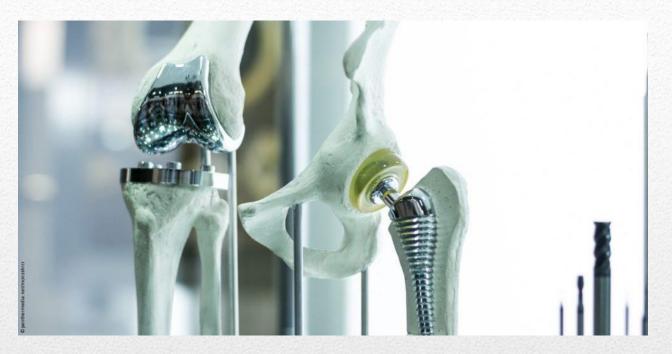
This was the 25th year for the Compared Show. A few key statistics: Number of visitors: 18,800 Number of exhibitors: 779; Exhibition space: 11,615 m<sup>2</sup> (i.e. in excess of 120,000 sq ft of floor space)

Exhibitors from ~40 countries

2 Exhibition halls

2 Forums (High Tech Forum & Suppliers Forum)

I found Compamed to be a valuable use of time. It allowed me to very quickly evaluate several potential suppliers in 1 large technology field (in 1 location at 1 time); it also afforded me opportunities to network and consider new trends in the drug delivery technology space.



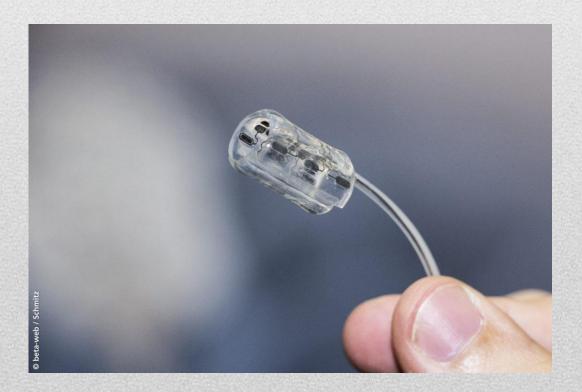
**Material development for implants** – before an implant can be applied, it has to pass through many processes; proper materials selection is the beginning (Compamed Magazine: Nov 2016: Material Developments for Implants)



Medical device sub-components – one of many examples of small medical device sub-components and molded parts available for sale or development discussion



**Resins for medical devices -** Who wouldn't want a fuchsia colored catheter with a mint-colored luer lock?



Sensors for Implantation – There were a wide range of sensor applications on display; this particular example is an implantable application for measuring neural activity.

Product Categories: Clean Room Equipment, Supplies and Service; Components, Parts, Original Equipment Manufacturers; Design, Research and Development Service; Electrical and Electronic Components; Filtration; Instrumentation; Laboratory Equipment; Manufacturing Equipment; Manufacturing Services; Materials, Raw Materials; Materials, Semi-finished components; Molding and Extrusion; Packaging; Labelling; Printing / Bar Coding; Sterilization; Tubing

Targeted Visitors: Production managers; Engineers and technicians for R&D and production departments; Technical procurement managers; Packaging specialists; Process engineers; Design engineers; Qualification and validation specialists

There were several great examples of wearable sensor technologies that could be used to monitor human physiology parameters, electro-neural stimulation; techniques to integrate electronics into plastic devices and textiles; materials for construction, application, and encapsulation / use application. There were several interesting material innovations presented. Dow Corning presented an adhesive targeted for wearable devices. It is specifically targeted for the patient skin – device interface.



#### BEST OF ANTEC 2016 – Check out what you missed...



**MPD Service Award to Glenn Beall:** A melancholy token was presented to Glenn Beall on his retirement from the Medial Plastics Division. Glenn has served as a board member and a former division chair over the more than 30 years since the group's founding. In addition to formally saying "Goodbye and Farewell Good Friend," The MPD donates \$1,000 to the University of Syracuse Plastics Museum in his name and in memory of his wife Patsy Beall, the two who were instrumental in helping to establish the Museum. (L-R: Glenn Beall, Michael Wallick)



ANTEC2016 SPE MPD BOD Meeting: (L-R: Michael Wallick, Vipul Davé, Ed Fewkes, Bob Herman, Pierre Moulinié, Glenn Beall, Maureen Reitman, Louis Somlai, Harrison Yu [not pictured Len Czuba, Margie Hanna, arg. Steve McCarthy])

#### BEST OF ANTEC 2016 – Check out what you missed...



"Fellow of the Society" Award to Steve McCarthy: Awarded for outstanding contributions in the field of plastics engineering, science or technology. Candidates are sponsored by an SPE Division or Special Interest Group and elected by the Fellows Election Committee on the basis of their professional record as well as written sponsorships from at least two SPE members. Only 319 members have been awarded this prestigious title since it was introduced in 1984. (L-R: Dick Cameron [outgoing SPE president], Steve McCarthy)



**SPE Communications Award for Jordan Freedman:** Served as Newsletter editor for more than 3 years for the MPD (L-R: Jordan Freedman, Len Czuba; presented at the New Technology Forum)

## BEST OF ANTEC 2016 UPDATES – Check out what you missed...



**ANTEC Student Poster Session:** The MPD was a platinum sponsor for this event; it was well attended by students and visitors



ANTEC Student Awards Luncheon: The student awards luncheon was also sponsored by the MPD and was very well attended



Greetings from Ireland!

I just want to send a gentle reminder to you in relation to Europe's premier medical plastics event of 2017.

The European Medical Plastics Conference is scheduled to take place at the Courtyard Marriott hotel

in Brussels on 7th – 8th March 2017. In addition, there will be a one day training event on Monday 6th at this same location. Further details are available at http://www.medicalplastics-conference.com/.



#### Why attend?

The purpose of this unique conference is to strengthen the interactions within the community of engineers, scientists and business leaders in new technology advancements in the field of medical polymers for a range of medical, ICT and pharmaceutical applications. The current status, challenges and requirements for future developments of medical polymers will be presented by leading experts.



Attending The Medical Plastics Conference will allow you to;

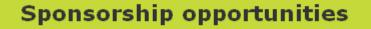
- Be brought up to speed on the newest trends and technical advances in the field of medical devices as it relates to polymeric materials
- Learn about new technologies and breakthrough developments
- Find solutions for your medical production
- Explore business opportunities in a highly dynamic and growing market
- Gain ample opportunity for networking to encourage the sharing of new ideas and concepts throughout the value chain

#### BOOKINGS

Early bird bookings available before 16th January 2017 Two day conference delegate place- €725

Normal bookings available on or after 16th January 2017 Two day conference delegate place- €825

You can book your delegate place here. If you have any questions or need any help with your booking please contact Carine Roos on +32 498.85.07.32/ croos@4spe.org.



We can provide various options and levels of sponsorship to suit each need. Contact Donna Bushell to book your package. +44 (0) 208 253 9626 / <u>dbushell@crain.com</u>.

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Day 1 Highlights: <u>http://pne-online-info.com/t/1L5J-4LONE-788ISNTLDF/cr.aspx</u>

Day 2 Highlights: http://pne-online-info.com/t/1L5J-4LVSR-788ISNTLDF/cr.aspx

Now is the time to get your suggested abstracts for presentation submitted; it is promising to be a very engaging conference with talks addressing the current and future technologies associated with Medical Plastics. The theme for the conference is "Converging Technologies into the Medical Device Arena – A New Era for Medical Polymers".

Also, there are some sponsorship packages available (again further details on the website), and also attached, you will find these sponsorship deals.

Kind regards,

Austin



Do you have questions about the EMPC Brussels?

Please email Austin Coffey 'austin.coffey@gmail.com'

## **UPCOMING EVENTS – ANTEC 2017**



#### **ANTEC®** Anaheim 2017

Hilton Anaheim 777 Convention Way Anaheim, California

The Plastics Technology Conference Featuring Knowledge that Is Current, Relevant and Global.

#### **Connect Classroom Theory with Real World Solutions**

ANTEC®, produced by the Society of Plastics Engineers, is the largest, most respected and well known technical conference in the plastics industry.

For over 70 years ANTEC® has successfully expanded from the U.S. into Europe, India and the Middle each with further expansion to global locations in the coming years.

Each event boasts technical and business presentations on new and updated technologies, panels and tutorials, networking events and student functions - all providing attendees with face-to-face interaction with expert representatives from the largest industry segments.

#### Who Should Attend?

Engineers, R&D Scientists, Technicians, Technical Sales & Support, Academics, Students, Managers, along with anyone involved in the plastics industry.

#### Submit a Paper Now!

Questions?

ANTEC® Technical Program Chair Edwin Tam +1 401.642.3753

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#### **UPCOMING EVENTS – ANTEC 2017**



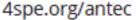
ANTEC<sup>®</sup> 2017 The plastics technology conference May 8-10—Anaheim, CA

# Share Your Knowledge Paper submission deadline: January 13, 2017

Additive Manufacturing/3Dp Advanced Energy Storage 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 and Composites Medical Plastics Mold Technologies Plastics in Building & Construction Plastic Pipe & Fittings Polymer Analysis Polymer Modifiers & Additives Product Design & Development Reaction Injection Molding Rotational Molding Sustainability Thermoforming Thermoplastic Elastomers Thermoplastic Materials & Foams Thermoset Vinyl Plastics







# UPCOMING EVENTS – ANTEC 2017 Medical Plastics Division

# ANTEC<sup>°</sup>2017 PAPERS

Submission Deadline: January 13, 2017 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

## **COUNCILOR'S REPORT – Len Czuba**



Dear Medical Plastics Division Board of Directors and MPD Members,

I attended a Council meeting recently (07Dec16) held as a conference call. One of the first orders of business was an announcement from President Scott

Owens that Wim DeVos submitted his intention to leave SPE employment at the end of his contract due to expire at ANTEC 2017. As a result, the EC has initiated a search for a new Executive Director. You may have seen the announcement in Plastics News "Breaking news bulletin" on Thursday (08Dec16) or on the SPE website.

We have no other information at this time but I will advise if anything comes up that should be passed along.

On a personal note, I would like to wish each of you a Blessed, Peaceful and Merry Christmas and a very Happy New Year's Day and a Prosperous 2017!

Len Czuba - MPD Councilor



Do you have questions about the Councilor's Report?

Please email Len Czuba lczuba@czubaenterprises.com

# TREASURER'S REPORT – Ali Ashter

| MEDICAL PLASTICS DIVISION-S.P.E.      |             |
|---------------------------------------|-------------|
| Treasurers report as of Dec 21, 2016  |             |
| Balance as of Aug 31, 2016            | \$22,408.87 |
| RECENT INCOME                         |             |
| SPE Rebate                            | \$620.00    |
| EXPENSES                              |             |
| Councillors Expense Payment           | \$1,438.06  |
| Funds available as of August 31, 2016 | \$21,590.81 |
| UPCOMING EXPENSES                     |             |
| NOTES                                 |             |
| Ali Ashter                            |             |
| Treasurer - MPD                       |             |





# Do you have questions about the Treasurer Report?

Please email Ali Ashter ashter2000@gmail.com

#### **BOARD OF DIRECTORS MEETING MINUTES – Ben Poon**

| MPD SPE BOD Meeting Minutes |                             |                                       |     |  |   |  |
|-----------------------------|-----------------------------|---------------------------------------|-----|--|---|--|
| Date:                       | 31-Aug-2016 BOD             |                                       |     |  |   |  |
| Time:                       | 11:00-12:00 EDT             |                                       |     |  |   |  |
| Location:                   | Teleconference – Skype/Lync |                                       |     |  |   |  |
| Participants:               |                             |                                       |     |  |   |  |
|                             | x                           | Pierre Moulinie<br>(Division Chair)   | x   | Norris Tollefson<br>(Past Chair/Asst<br>Treasurer/Finance /Awards) | x | Vipul Dave<br>(TPC Chair)                |
|                             | x                           | Ali Ashter<br>(Treasurer/Finance/TPC) | x   | Ben Poon<br>(Secretary)  | x | Len Czuba<br>(Councilor/Finance/T<br>PC) |
|                             | x                           | Louis Somlai<br>(Newsletter)          | а   | Nitin Sood<br>(Communications Chair)                               | x | Michael Wallick<br>(Awards Chair)        |
|                             | x                           | Margie Hanna<br>(Finance)             | x   | Bob Herman<br>(Education Chair)                                    | а | Steve McCarthy<br>(Finance Chair)        |
|                             | e                           | Lorie Lodico<br>(Communications)      | а   | Bhavin Shah  | x | Harrison Yu                              |
|                             | а                           | Maureen Reitman<br>(Awards/TPC)       | x   | James Madenjian  | x | Ed Fewkes<br>(Membership Chair)          |
|                             | а                           | Mark Bonifacio                        |     |  |   |  |
|                             | x                           | Kathy Schacht<br>(SPE Liaison)        | а   | Austin Coffey<br>(EU Representative)                               |   |  |
|                             | x=p                         | resent, e=excused, a=abs              | sen | t  |   |  |

#### MEETING NOTES

#### Roll Call and Introductions

- 1. Call to Order and introductory remarks (P.Moulinié)
  - · Noted that meeting will be audio recorded; no objections
  - Pierre noted that the meeting is conducted under SPE antitrust (SPE Policy 008) and conflict of interest (SPE Policy 003) guidelines
    - Len shared SPE 003 and SPE 008 documents:- see end of minutes document
- 2. Roll Call
  - 11 present during roll call, have quorum; Ben arrived late
- 3. Amendment(s) to agenda
  - None
- 4. Edits / Approval of Minutes from 13-June telco
  - Len sent some comments to Ben; to be voted next meeting

#### Recurring Agenda Items

- 1. SPE Liaisons (Kathy Schacht)
  - · Council mtg in Quebec City on Aug 21 -22. Minutes are available on The Chain in Leadership Lane
  - All awards application for 2016-2107 are opened and available

#### **BOARD OF DIRECTORS MEETING MINUTES – Continued**

- Close dates: Annual Awards: Sept 12, Fellows Oct 7, HSM Oct 16, Pinnacle / Communication Excellence Jan 27, Outstanding student chapter Feb 3
- Staffing announcement: Eve Vitale joined Aug 1 as Foundation Director
- Mike commented HSM webinar was very useful. Is webinar available for Pinnacle / Communications? No, new rollout next year.
- 2. Councilor and Committee Reports
  - A. Councilor's Report (L. Czuba)
    - Very good attendance at Council mtg in Quebec City
    - Appears SPE will close the year with \$50K \$60K shortfall because membership is continuing to decrease, current ly 13,154.
    - ANTEC attendance behind expectation (1,315).
    - Budget was built on higher membership and ANTEC attendance
    - We are asked to build membership; reach out lapsed members; meet the needs of current members (i.e. The Chain, newsletters)
    - More divisions are finding out a way to reach new members are through TOPCONs
      - · something MPD should consider in the future; resources are available from HQ
      - · can link up with another section or division
    - The main part of the meeting was focus on restructuring of governance; council was given a chance to vote on the restructuring of Governance Task Force (1<sup>st</sup> time on previous and 2<sup>nd</sup> time on last one); implementation on 2017; Executive Committee will have more ability to react quickly to react what is going on in SPE; Executive Committee can overturn Council's objection to Executive Committee actions
    - Len sent a copy of his report and copy of PowerPoint to Pierre for sharing to board (see email from Pierre on 31-Aug-16); also available in Leadership Lane under Governance Task Force in The Chain
    - With the restructuring, hope to turn things around by reaching the young professionals
    - Authorized new student chapter in Imperial College outside London ; voted to abandon Rochester Section
    - Change in current executive committee VP, Rochelle Lemieux won election but resigned due to career change; Rodney Joslin was appointed to VP with the next highest votes
    - Question on future of ANTEC; had a breakout session and discussion on how to make ANTEC better, nothing specific yet to communicate out
  - B. Education (B. Hermann)
    - Emailed Len on some ideas to have better presentations at ANTEC; communicate them to Vipul or the ANTEC TPC chair
    - In contact with couple students for getting feedback on ideas to engage young people
    - Pierre commented that this could become a big project and could use help from other board members
  - C. Membership Report (E. Fewkes). Update on plan to engage Graduate Students.
    - Looking at what schools that do medical plastics beyond traditional definition, i.e. microfluidics for diagnostics; will visit Dublin for MicroTAS conference and meet up with Austin Coffey as a way to get into adjacent technologies to medical plastics; possible TOPCON; will know more in Oct
    - Kathy has contacts of faculty advisors for all student chapters

#### **BOARD OF DIRECTORS MEETING MINUTES – Continued**

#### D. Treasurer/Finance Committee Report (A. Ashter)

- Pierre forwarded copy of Treasurer's report to the board (31-Aug-16)
- Current balance \$22,700 (includes SPE rebate)
- Need to follow up regarding person recognition (Glenn Beall) on donation to Syracuse Univ.
- Follow up on rebate check; should be for 2<sup>nd</sup> and 3<sup>nd</sup> quarter
- E. Awards / Nominations Committee (M. Wallick)
  - Congratulations to Norris for MVP award
  - See Kathy update on awards deadlines
  - Honored Service Members / Fellows HSM webinar was very informative and would like to see more of them; Len is the process champion
  - II. Pinnacle Norris Tollefson agreed to help gather docs for application.
  - III. Communications could use some help from others
  - IV. Speaker plagues/certificates to be addressed in email or next call
- 3. Medical Plastics Division Technical Programming:
  - MiniTec Minneapolis (Fall 2016?) will not happen
  - <u>Medical Polymers</u> (Brussels, March 7-8) A. Coffey
  - ANTEC 2017 (Anaheim, 8-10 May) V.Dave
    - Should start to collect ideas for keynote speakers. S. Spiegelberg indicated willingness to speak at ANTEC 2017.
    - Let Vipul know if you have ideas for speakers
  - MDM West Feb 2017 V Dave talked to organizers from past MDM East about topics for MDM West. No focus on materials from MDM East.
  - -TOPCON Harrison; possible collaborating opportunity with Polymer Analysis Division; Pierre reach out to Greg (TPC)

#### 4. Communications (L. Somlai)

#### -Newsletter Update

- Louis received past newsletters from Norris for example/template
- Plan to have a draft by mid Sept
  - Let Louis know of any content to add
    - Review pick 1 person to proofread (Norris)
    - o Norris will help on distribution

#### New Topics

- 1. Unfinished Business none
- 2. New Business none
- Kathy moved to close; meeting adjourned.



#### Do you have questions about BOD Meeting Minutes

Please email Ben Poon benjamin\_poon@baxter.com

#### 2016-2017 CALENDAR - SPE WEBSITE (WWW.4SPE.ORG)

#### 2017

- International Polyolefins Conference February 26- March 1, 2017, Houston, Texas Feb
- The Medical Plastics Conference Ma March 7-8, 2017 Courtyard by Marriott Brussels Hotel, Avenue des Olympiades 6, 1140 Brussels
- 21 Thermoset Conference March 21-22, Scottsdale, Arizona
- **European Additives & Color Conference** March 22-24, 2017, NH Laguna Palace, Mestre (Venice), Italy Mar
- 2017 TPO Shanghai March 28-30, Shanghai, China Mar
- 28 Medical & Analytical Plastic Product & Part Design Conference March 28-29, Courtyard Marriott - Boston Marlborough Mar
- AUTO EPCON 2017 May 2, 2017, Troy, Michigan May
- 8 **ANTEC® Anaheim** May May 8-10, 2017, Anaheim, California
- Plastics Decorating and In-mold Decorating June 19-20, 2017, Lincolnshire, Illinois (near Chicago) Jun
- Injection Molding Innovations Conference

August 1-3, Oak Brook, Illinois (near Chicago) Aug

- 6 17th Annual Automotive Composites Conference and Exhibition (ACCE) Sep September 6-8, 2017, Novi, Michigan
- Thermoforming Conference® 11

Automotive TPO Conference

**Blow Molding Conference** 

October 2-4,2017 Oak Brook, Illinois VinyItec® 2017 Conference

**Design in Plastics** November 6-8, 2017, Detroit, Michigan

October 10-12, 2017, San Antonio, Texas

Oct

Oct

10

Oct 6

Nov

- September 11-14, 2017, Orlando, Florida Sep
- Color and Appearance Conference: (CAD RETEC®) Sep September 17-19, 2017 Milwaukee, Wisconsin

October 1-4, 2017, Troy Marriott (Detroit Suburbs), Michigan

#### 2018

F

| 5        | International Polyolefins Conference   |
|----------|--|
| eb       | February 25-28, 2018, Houston, Texas   |
| 7        | ANTEC® Orlando @NPE2018  |
| ay       | May 7-9, 2018, Orlando, Florida  |
| 8        | Thermoplastics Elastomers Conference   |
| ep       | September 18-20, 2018, Akron, Ohio   |
| <b>3</b> | Color and Appearance Conference: (CAD RETEC®)<br>September 23-25, 2018, North Charleston, South Carolina |
| 4        | Thermoforming Conference®  |
| ep       | September 24-27, 2018, Fort Worth, Texas   |
| 7        | Automotive TPO Conference  |
| ct       | October 7-10, 2018, Troy Marriott (Detroit Suburbs), Michigan  |
| )19      | )  |

#### 20

- 24 International Polyolefins Conference February 24-27, 2019, Houston, Texas Feb Thermoforming Conference® Sep September 9-12, 2019, Milwaukee, Wisconsin 23 Annual Blow Molding Conference 2019 Sep September 23-25, 2019, Atlanta, Georgia
- Automotive TPO Conference October 6-9, 2019, Troy Marriott (Detroit Suburbs), Michigan Oct



# **Newsletter Suggestions?**