

## Medical Plastics - Innovations for Life

### *MedTech Trends in Design, Manufacturing, Packaging, and Sustainability*

**SPE's Medical Plastics MiniTec will be held Monday February 5<sup>th</sup> and Tuesday February 6<sup>th</sup>, a day prior to and concurrent with the first day of the 2024 MD&M West Expo & Conference in the Anaheim Convention Center.**

Innovations in medical plastics and associated applications are rapidly advancing in exciting ways. Concurrently, the medical device and healthcare industries face several new and evolving challenges related to materials, regulatory requirements, product design, and materials characterization and validation in order to ensure better outcomes for patients while being mindful of plastic wastes in the environment and focusing efforts on sustainability. Join us for a two-day program with experts in the medical plastics industries that explore these topics and more.

#### **Topics include:**

- Innovations in Resins, Surface Modifications, and Processing
- Silicones Bringing New Benefits & the Use of Surface Modifications
- Global Impact of PFAS on Medical Polymers & Devices
- Progress Updates in Sustainability of Medical Polymers
- New Product Designs Highlighting & Enabled by Medical Polymers
- Characterization & Validation of Medical Devices
- Drug Delivery & Novel Processing of Medical Polymers

#### **Poster Sessions**

In addition to this technical program from the podium, this MiniTec will feature a poster session with additional presentations unable to be squeezed into the live program. These posters will be on display in the conference room and Mezzanine level hallway between the escalators and the conference rooms. The posters will be displayed throughout the conference program for three days! Make sure you take time to view this work!

#### **Keynote**

A special keynote speaker, Dr. Maureen Reitman, will present after lunch on the first day of the program.

These live technical presentations combined with an enjoyable Membership Reception allowing us to continue our discussion and view the poster offerings. Join us for this must-attend event! We look forward to seeing you and your colleagues there! Don't miss it!

To register click here: <https://www.imengineeringwest.com/en/attend/conference.html>

# Medical Plastics - Innovations for Life

*MedTech Trends in Design, Manufacturing, Packaging, and Sustainability*

**Monday,  
February 5, 2024**

**MD&M West  
Anaheim Convention  
Center - Mezzanine Level  
Anaheim, CA 92802**

## Schedule of Events:

7:30a  
Registration & Poster Setup

8:00a Welcome

8:00a – 6:00p  
(& all week of show)  
Poster Exhibition

8:00a – 5:00p  
All Day MiniTec  
(Lunch and Breaks Included)

5:00p – 6:30p  
Membership Reception  
and Poster Session  
(Included in Registration)

**Registration to Attend:**  
Will be managed by Informa  
for all conference attendees

**Info & Online Registration:**  
<https://www.mdmwest.com/en/attend/conference.html>

## Contact Information:

Ned LeMaster  
608-402-3268  
[ned\\_e.lemaster@delrin.com](mailto:ned_e.lemaster@delrin.com)

or  
Charles Kumin  
508-683-5093  
[Kumin.Yang@bsci.com](mailto:Kumin.Yang@bsci.com)

**Sponsorship / Tabletops**  
Chris Konitzer  
847-257-2865  
[christopher.konitzer@avient.com](mailto:christopher.konitzer@avient.com)

Conference Co-Chairs:  
Charles Yang; Boston Scientific & Ned LeMaster; Delrin

**Keynote Speaker Maureen Reitman** – GVP & Principal Engineer at Exponent

“PFAS and Biomaterials Access: Implications of evolving chemical and environmental regulations on the use of fluoropolymers and other fluorinated substances in healthcare”

**Welcome remarks & Moderator**  
Ned LeMaster - Delrin

Monday morning  
**1a. Materials: Innovations in Resins, Surface Modifications, and Processing**

**Biodegradable TPUs for Tissue Repair**  
Andre Martinez – DSM Biomedical

**Microbial Susceptibility of Various Polymers and Evaluation of Thermoplastic Elastomers with Antimicrobial Additives**  
Fred Birkel – Avient Corporation

**Novel Bioresorbable Polymer Composites for Medical Device Applications**  
Jing Liu – DSM-Firmenich

### Break

**1b. Materials: Silicones Bringing New Benefits & the Use of Surface Modifications**  
Moderator – Tom Meehan - Eastman

**Effects of Low-Energy Electron Beam Radiation on Medical Device Polymers**  
Kamrul Hasan – PNNL

**Extending the Capabilities of Liquid Silicone Rubber Over-Molded Polycarbonate**  
Pierre Moulinie – Covestro LLC  
Daniel Hawk – Wacker Chemical Corporation

**Advancements in Low Temperature Curing Liquid Silicone Rubber**  
Rob Rudolph - Momentive Performance Materials Inc

**Strategies for Surface Modification and Adhesion Enhancement for Medical Grade Plastics**  
Aniruddha (Andy) Palsule – Stress Engineering

**SPE MPD MEMBERSHIPS WILL BE ACCEPTED**

Name Recognition, Extensive Network,  
Access to Extensive Library of Publications  
and Friends from around the World!

Monday afternoon

**2a. Global Impact of PFAS on Medical Polymers & Devices**

**\*Featured Keynote Presentation\***

hosted by Louis Somlai – Eli Lilly

Session Moderator – Charles Yang – Boston Scientific

**Global Impact of PFAS Regulatory Restrictions on Medical Plastics**  
Troy Barrix – Celanese Corporation

**Navigating PFAS Replacements in the Plastics Industry**  
Ryan Divens – Avient Corporation

### Break

Monday late afternoon

**2b. Progress Updates in Sustainability of Medical Polymers**

Moderator – Chris Konitzer - Avient

**Impact of Sustainability and Sterilization Trends on Material Selection for Medical Devices**

Jackie Anim – Ethicon Endo-Surgery, Inc.  
Rob Klein – ArtiCure, Inc.

**Driving Towards Net Zero; A Sustainable and Circular Design Approach with Homopolymer Polyoxymethylene**  
Elizabeth Stubbs – Delrin

**Challenges and Opportunities for Recycling of Medical Plastics**  
Hilda Buss – Exponent

**New Member Reception and Poster Session**

**SPECIAL THANKS TO OUR SPONSORS!**

**Teel Plastics, Headline Sponsor!**

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Gerresheimer - Silver

Chemours - Bronze

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(Sponsors thru mid-Dec 23)

# Medical Plastics - Innovations for Life

## MedTech Trends in Design, Manufacturing, Packaging, and Sustainability

**Tuesday,  
February 6, 2024**

**MD&M West  
Anaheim Convention  
Center - Mezzanine Level  
Anaheim, CA 92802**

### Schedule of Events:

9:00a – 10:00a  
Welcome and Keynote  
Presentation from Informa

9:00a – 5:00p  
(& all week of show)  
Poster Exhibition

10:00a  
All Day MiniTec  
(Lunch and Breaks Included)

5:00p  
Closing Comments  
and Farewell

**Registration to Attend:**  
Will be managed by Informa  
for all conference attendees

**Info & Online Registration:**  
<https://www.mdmwest.com/en/attend/conference.html>

### Contact Information:

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**Posters**  
Kamrul Hasan  
[kamrul.hasan@pnnl.gov](mailto:kamrul.hasan@pnnl.gov)

**Conference Co-Chairs:**  
Charles Yang; Boston Scientific & Ned LeMaster; Delrin

### Informa Keynote – See Informa Schedule

Tuesday morning  
**3a. New Product Designs Highlighting & Enabled by Medical Polymers**  
Moderator – Chris Lyons - Exponent

**Smart Bandages Promote Wound Healing with New Materials**  
Joanne Moody – Zeta Scientific LLC

**Closing the Loop: Innovating a Better Feeding Tube System**  
Millie Nuno - Hoffer Plastics Corporation

**Recent Innovations in High Aspect Ratio Catheter Tips and Cannulas**  
Brent Hahn - Isometric Micro Molding, Inc.

**Medical and Drug Delivery Device Design for Biocompatibility**  
Mark Burchnall – PSN Labs

### Lunch

Tuesday afternoon  
**4a. Characterization & Validation of Medical Devices**  
Moderator – Ali Ashter – Advanced Plastics Enterprises LLC

**Particulate Testing for Additive Manufactured Medical Devices**  
Becky Bader - Cambridge Polymer Group

**Lab X Found WHAT in My Extracts? Best Practices in Unknowns Identification in Extractables Testing**  
Michael Young - Cambridge Polymer Group

**Process Validation Requirements for Medical Device Plastics Materials and Products**  
Viny Sastri – Winovia

### Break

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and Friends from around the World!

Tuesday late afternoon  
**4b. Drug Delivery & Novel Processing of Medical Polymers**  
Moderator – Len Czuba

**Innovations in Laser Joining for Device Manufacturing**  
Jeff Ellis – EWI

**Processing Bioplastics via Extrusion for Medical Device and Drug Delivery Products**  
Charlie Martin – Leistritz Extrusion

**Deep Dive into Drug Delivery Device Trends**  
Josh Blackmore & Brian Rubin – M. Holland

**Controlled Release via Polymeric Sintered Electrospun Capsules with Nanoscale Porosity**  
Francisco Chaparro – Nanoscience Instruments

### Closing Remarks and Farewell

### SPECIAL THANKS TO OUR SPONSORS!

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Invista - Gold

Gerresheimer - Silver

Chemours - Bronze

Leistritz - Bronze

Sybridge - Bronze

(Sponsors thru mid-Nov 23)

### POSTER SESSION OPPORTUNITIES AVAILABLE

Calling All Poster Presenters! 4' x 3' Poster to be on display entirety of MD&M West Event. Complimentary access to MiniTec event available, but poster presenters need not be present to have poster on display.

Proposed poster title & abstract due by 1-11-2024, and digital copy due by 1-27-2024. (Poster selection and communication to presenters by 1-17-2024.)

Questions, contact poster chairman:  
Kamrul Hasan. [kamrul.hasan@pnnl.gov](mailto:kamrul.hasan@pnnl.gov)