

Medical Plastics - Innovations for Life

MedTech Trends in Design, Manufacturing, Packaging, and Sustainability

SPE's Medical Plastics MiniTec will be held Monday February 5th through Tuesday February 6th, 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 upper level hallway between the escalators and the conference rooms. The posters will be displayed throughout the conference program, on both days! Make sure you take time to view this work!

Keynote Presentation

A special keynote speaker **Dr. Maureen Reitman** is a Principal Engineer and Vice President responsible for Polymer Science, Materials Chemistry, Biomedical Engineering and Sciences, and Health Sciences at **Exponent**. Dr Reitman will present "PFAS and Biomaterials Access: Implications of evolving chemical and environmental regulations on the use of fluoropolymers and other fluorinated substances in healthcare" on our first day. This presentation will lead into the Session on Global Impact of PFAS on Polymers & Medical Devices

These live technical presentations combined with a rousing lunchtime panel discussion and poster offerings will make this a must-attend event! We look forward to seeing you and your colleagues there! Don't miss it!

To register: click here: [SPE/MPD's MiniTec | IME West \(imengineeringwest.com\)](https://www.imengineeringwest.com)

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**Monday,
February 5, 2024**

**MD&M West
Anaheim Convention Center
Level 2, Rm 201 C&D
801 West Katella Ave
Anaheim, CA 92802**

Schedule of Events:

7:30a – 8:00a
Registration & Poster Setup

8:00a – 7:00p
(& all week of show)
Poster Exhibition

8:00a – 8:15a
Welcome

8:15a – 5:00p
All Day SPE MiniTec
(Lunch and Breaks Included)

5:00p – 7:00p
Membership Reception - meet
Poster Presenters & Exhibitors
(Included in Registration)

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

Info & Online Registration:
[SPE/MPD's MiniTec | IME West](#)
[\(imengineeringwest.com\)](#)

Contact Information:
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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”

**1a. Materials: Innovations in Resins,
Surface Modifications, and Processing:**
Moderator – Ned LeMaster

Biodegradable TPUs for Tissue Repair
Andre Martinez – DSM Biomedical

**Thermoplastic Elastomers with
Antimicrobial Technologies**
Fred Birkel – Avient Corporation

**Next Generation Bioresorbable
Composites for Anchors**
Jing Liu – DSM-Firmenich

Break (9:45a – 10:00a)

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

**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 Services, Inc.

Lunch (12n – 1:00p)

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**2a. Global Impact of PFAS on Medical
Polymers & Devices: Host & Moderator
Louis Somlai**

Featured Keynote Presentation
Maureen Reitman – Exponent, Inc.

**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 (2:45p – 3:00p)

**2b. Progress Updates in Sustainability of
Medical Polymers: Moderator Chris
Konitzer**

**Advanced Recycling: Putting Circularity
into Circulation**
Jennifer Austin–ExxonMobil Prod. Solutions

**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 – DuPont Delrin

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

Session ends 5p. Move to **Reception 201 A&B**

Join us at 5p for:
New Member Reception!
Enjoy a Beverage & Snack
Meet Poster Presenters
Visit Exhibitors

SPE MPD MEMBERSHIPS WILL BE ACCEPTED
offers:
Name Recognition, Extensive Network
Access to Expansive Library of Publications
and Friends from around the World!

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**Tuesday,
February 6, 2024**

**MD&M West
Anaheim Convention Center
Level 2, Rm 201 C&D
801 West Katella Ave
Anaheim, CA 92802**

Schedule of Events:

9:00a – 10:00a
Informa Welcome &
Keynote Presentation

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

MiniTec Day 2 Begins:
10:15a – 5:00p
All Day SPE 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:
[SPE/MPD's MiniTec | IME West](#)
 [\(imengineeringwest.com\)](http://imengineeringwest.com)

Contact Information:
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Charles Yang; Boston Scientific & Ned LeMaster; Delrin

Informa Keynote

Keynote Presentation from Informa

Break (10a – 10:15a)

**3a. New Product Designs Highlighting &
Enabled by Medical Polymers: Moderator –
Chris Lyons**

**Smart Bandages Promote Wound Healing
with Advanced 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**
Matthew Heidecker – PSN Labs

Lunch (12:15p – 1:15p)

**4a. Characterization & Validation of Medical
Devices: Moderator – Ali Ashter**

**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**
Vinny Sastri – Winovia

Break (2:45p – 3:00p)

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Join us!

4b. Drug Delivery & Novel Processing of Medical Polymers: 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 USA

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

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

Closing Remarks and Farewell

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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).

Digital copy of posters due by NOW.
(Poster selection & communication
to presenters quickly.)

*For questions and guidance on posters please
contact conference co-chairs.*