

2nd Annual

MPC 2017

Medical Plastics & Compounding Conference

Tuesday December 5, 2017
San Jose Marriott, San Jose, California, USA



Organized By



Sponsored By



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The demand for high quality medical plastics and compounds continues to grow as regulations become more stringent, technology advances, and new, lifesaving medical devices are developed.

The MPC Conference is designed by Compounding Solutions to provide the latest technical information on medical polymers, compounding technology, material selection & design, as well as the latest in regulatory requirements, directly to the medical device engineering world.

This one-day conference will not only provide high-level presentations from a wide range of experts in a variety of areas including equipment, materials, medical extrusion, additives, regulatory, and compounding; it will also provide networking opportunities with key players from the medical plastics supply chain as well as other development experts from Silicon Valley and beyond!

5 GREAT REASONS TO ATTEND:

1. Learn about the latest technologies in medical plastics compounding
2. Network with key players from all areas of the medical plastics supply chain
3. Learn about the latest in medical plastics processing technologies
4. Discover new materials and additives for medical devices
5. Discover potential partners for new projects

Attend

The registration fee is \$300 and includes attendance to the full day of presentations, breakfast, lunch, refreshments throughout the day, and the post-conference happy hour.

Sponsor

There are many sponsorship options available to boost your brand and presence at MPC 2017. Please contact Nick Norton at Compounding Solutions via the information below or visit the conference web page for more information and to secure your sponsorship.

Conference Contact

Nick Norton, Marketing

Tel: +1 207 777 1122

Email: nnorton@compoundingolutions.net

Conference Web Page: www.compoundingolutions.net/mpc-2017

Venue Location: 301 South Market Street, San Jose, California 95113 USA



Tuesday December 5, 2017

7:45am Registration & Coffee/light breakfast

8:30am Welcome & Opening announcements

Session 1: Processing of Medical Plastics

- 8:40am **Proper processing of polymers starts with drying**
Jennifer Green, Global Technical Service Manager-Medical Solutions,
LUBRIZOL LIFESCIENCES
- 9:20am **Precision compounding via twin screw extrusion for medical products**
Charlie Martin, President/General Manager, LEISTRITZ EXTRUSION
- 10:00 - 10:20am Coffee Break
- 10:20am **3D printing for the medical device industry**
John Briden, Senior R&D Engineer, HEWLETT-PACKARD 3D PRINTING
- 11:00am **Exploring advances in the co-extrusion of medical tubing**
Steve Maxson, Director of Global Business Development - Extrusion,
GRAHAM ENGINEERING

Session 2: Material Selection & Considerations for Various Applications and Processes

- 11:40am **New developments in tie layer resins for multilayer medical tubing**
Nathan Doyle, Sales & Marketing Manager, COMPOUNDING SOLUTIONS
- 12:20 - 1:50PM Lunch
- 1:50pm **Material Selection for Wearable Devices: 5 Key Lessons**
Eric R. Larson, Owner & Chief Engineer, ART OF MASS PRODUCTION
- 2:30PM **Material strategies to avoid medical housing failures**
Tim McGinnis, Medical Business Manager, ENTEC POLYMERS
- 3:10 - 3:30pm Coffee Break
- 3:30pm **Selection of materials for products subject to sterilization processes**
Betty Howard, Radiation TechTeam Manager - Applied Sterilization Technologies,
STERIS
- 4:10pm **Stabilizers & common medical plastics**
Josh Robertson, Midwest & Western Sales Manager, COMPOUNDING SOLUTIONS

Session 3: Analytical & Regulatory Considerations

- 4:50pm **Determining extractables & leachables in polymer materials**
Chris Linton, Project Manager, JORDI LABS
- 5:45-7:15 **Post-Conference Happy Hour**

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Speakers



Jennifer Green, Global Technical Service Manager-Medical Solutions, Lubrizol LifeSciences

Lubrizol LifeSciences is a healthcare solution partner that provides support from idea to execution by supplying customizable polymers, formulation development and contract manufacturing services for medical device manufacturers. In Jennifer's current role at Lubrizol, she and her team provide technical solutions to both OEMs and processors that use thermoplastic polyurethane (TPU). Jennifer has 10 years of medical device design and manufacturing experience, including four years with Lubrizol. She holds a bachelor's degree in Biomedical Engineering from Case Western Reserve University.



Charlie Martin, President/General Manager, Leistritz Extrusion

As President/General Manager of Leistritz Extrusion, Charlie is responsible for the management of a company that provides manufacturing equipment and engineering services to the plastics, medical and pharmaceutical industries in the USA and around the world. Extensively published in trade publications, textbooks and journals, Charlie has delivered 200+ technical presentations at wide-ranging international events, and is the co-editor of the textbook Pharmaceutical Extrusion Technology, a seminal book on a new manufacturing technology that has been embraced by the pharmaceutical industry. He has also been awarded 2 extrusion related patents. Charlie currently serves on the Board of Directors for the Society of Plastics Engineers (SPE) Extrusion Division, the Polymer Processing Institute @ New Jersey Institute of Technology, and also on the Technical Advisory Board for Teel Plastics in Baraboo, WI. Previously he has held the Technical Program Chairman and Chairman positions for the SPE Extrusion Division. Charlie earned his undergraduate degree from Gettysburg College in 1983, and an MBA from Rutgers University in 1990.



Steve Maxson, Director of Global Business Development - Extrusion, Graham Engineering

In his current role, Steve is responsible for sales, marketing, and product development. Steve's background combines disciplines from the fields of medical extrusion technology and medical device manufacturing. Steve has written several technical articles related medical extrusion for medical devices. He holds a BS in Mechanical Engineering Technology from Wentworth Institute of Technology and a MBA from Rensselaer Polytechnic Institute.



Chris Linton, Project Manager, Jordi Labs

Chris is a senior chemist with previous experience focusing on polymer chemistry used in the development of chromatography products. Chris has a chemistry degree for R.I.T. and an MBA from Penn State. His current position at Jordi Labs is focused on analytical project management with focus on polymer deformation, failure analysis and regulatory oriented projects such as Extractables and Leachables.



Speakers (continued)



Nathan Doyle, Sales & Marketing Manager, Compounding Solutions

Nathan Doyle, an expert in medical plastics, has been the Sales & Marketing manager for the past 7 years at Compounding Solutions. Nathan leads a team of eight highly motivated individuals in the Compounding Solutions Sales & customer services department. Prior to working at Compounding Solutions, Nathan worked as Engineering Product Manager and Application Engineer for Cyclics Corporation, his work in his field led to 3 patents & patent applications. Nathan is a member of the kaizen, training, & culture committees at Compounding Solutions and a member of the Society of Plastic Engineers. Nathan received his bachelors and masters of science degrees in Material Science & Engineering from Rensselaer Polytechnic Institute.



Josh Robertson, Midwest & Western Sales Manager, Compounding Solutions

Josh Robertson is the Midwest and Western Sales Manager for Compounding Solutions living in Minneapolis since March of 2013. During that time, he has been responsible for growing the customer base and helping existing customers from Minnesota to Texas to Ohio. Prior to his time at Compounding Solutions he worked for Optinova making tight tolerance medical tubing and prior to that Farlow's Scientific Glassblowing working in tight tolerance custom tooling for tipping, balloon blowing and anatomical models. Over the course of this time he has helped with and written several published papers including White Rooms and Lubricous Additives for Compounding Solutions as well as pursuing his own hands on education in molding and extruded tubing in the medical marketplace. He received his Bachelor of Science from South Dakota State University.



Eric R. Larson, Founder & Chief Engineer, Art of Mass Production

Eric R. Larson is a mechanical engineer with over thirty years experience in plastics design. A graduate of The University of Michigan, he spent his early career as an Application Engineer for DuPont Engineering Plastics, providing support on plastic part design and material selection. For the past twenty years, he has worked as a consultant, helping companies bridge the gap between "what if" and "wow." He has helped bring to market products that are used by people from all walks of life, from boogie boards, water basketball games, and SCUBA diving equipment to disposable lighters, cell phones, and hand-held medical devices. He is founder and Chief Engineer of Art of Mass Production (AMP), an engineering consulting company based in San Diego, California.

A prolific writer, some of his musings on plastics and life can be found on his blog site, plasticsguy.com. His newest book Thermoplastic Materials Selection: A Practical Guide was released in 2015 and is now in over 120 libraries in more than 20 countries.

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Speakers (continued)



John Briden, Senior R&D Engineer, Hewlett-Packard 3D Printing

John Briden has a Mechanical Engineering degree from Stanford University and extensive experience in Product Design and development. He has led the development of computer products for 14 years at HP as well as at Apple for a similar tenure. Most recently he championed the use of HP's MJF 3D printing technology in both the development and production of one of its Immersive Computing products currently under development.

Betty Howard, Radiation TechTeam Manager, STERIS Isomedix Services

Ms. Howard manages STERIS' Applied Radiation TechTeam for Technical Support and dose validation activities for irradiation processing. Betty has over 25 years experience in Radiation Sterilization, Biotechnology Research, applications development and technical support related to drug discovery, analytic instrumentation, microbiology, biochemistry sterilization processes and materials compatibility including previous positions with Amersham, PerkinElmer, and Illinois Department of Public Health. She holds a BS and MS degree from the University of Illinois in Biological Sciences and an MBA in Marketing and General Business.



Tim McGinnis, Medical Business Manager, Entec Polymers

Tim McGinnis is the medical business manager at Entec Polymers, a division of Ravago and global leader in medical resin distribution. He began his medical career at Johnson & Johnson's Ethicon division as a clinical sales manager, working directly with surgeons and clinicians in the operating room before transitioning into market development roles at J&J. In 2006 he joined DSM as the Global Medical Sales and Marketing Manager, establishing DSM Biomedical, LLC and bringing a portfolio of high-value implant materials and technologies to the medical market. Prior to joining Entec in 2014, he was the North American medical market development manager at Celanese. Over the past 16 years Tim has developed a wide range of product and material expertise which he leverages with product development and engineering teams on appropriate medical material specification.

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Compounding Solutions

Compounding Solutions LLC is the leading manufacturer of high quality, custom medical polymer compounds, color concentrates, and additive concentrates for extrusion and injection molding to be used in Class I, II, and III medical devices. Custom formulation capabilities include radiopaque, pre-colored, heat & UV stabilized, and low friction. ISO 13485 compliant.

Also sponsored by



LEISTRITZ EXTRUSION

A business unit of Leistritz Advanced Technologies Corporation

Leistritz Extrusion manufactures modular, high speed, energy input (HSEI) twin screw extruders. Areas of specialization include equipment for compounding, engineering resins, adhesives, reactive extrusion, foaming, and the direct extrusion of sheet, film, fibers, and profiles.

Full technical services are available, including process optimization, inspections, on-site training, workshops, and a complete process laboratory.

Email: sales@leistritz-extrusion.com

Website: www.leistritz-extrusion.com