

A Business Unit of Leistritz Advanced Technologies Corp.

Leistritz Extrusion

175 Meister Ave.
Branchburg, NJ 08876 USA

P 908/685-2333
sales@leistritz-extrusion.com

NEWS RELEASE

February 21, 2023- For immediate release

Leistritz Extrusion will host its' 1st **Bioplastics Twin Screw Extrusion Workshop** May 16-17, 2023 in Branchburg, New Jersey. A unique facet of this program is that the classroom sessions are immediately supplemented by interactive "hands-on" extrusion system demonstrations, as well as screw assembly, equipment cleaning and maintenance procedures.

Day 1- Tuesday, May 16th

Bioplastic and natural fiber formulations are heat and shear sensitive, and often require multi-stage venting. A partial list of topics, tailored to specifically to processing bioplastics, is as follows:

- Co-rotating and counterrotating twin screw extrusion technology
- Techniques for dispersive and/or distributive mixing (with minimization of heat/shear)
- Sequencing of multi-stage process operations
- Devolatilization process techniques and practices
- Scale-up of the twin screw extrusion process
- Feeders and material handling for pellets, powders and liquids
- Gear pumps and screen changers
- Pelletizing: strand cut, water ring, and underwater
- Direct extrusion for sheet, film, fibers and profiles
- Reactive processing
- Foaming of bioplastics
- Coextrusion
- Process troubleshooting
- Twin screw extruder maintenance tips and procedures
- Control and monitoring options

In addition to Leistritz staff, outside speakers from industry and academia will contribute to the program, including: Margaret Sobkowicz Kline, UMASS Lowell; Rob Jerman, Extrusion Technology and Innovations; and Jim Nangeroni, formerly NatureWorks Director of Applications Development.

Day 2- Wednesday, May 17th

"Hands-on" demonstrations at Leistritz process development laboratory

- Co-rotating and counterrotating twin screw extruders
- Devolatilization via extrusion: ambient, vacuum assist, multi-stage venting
- Feeding of pellets, powders, liquids and fibers
- Downstream addition of fillers and fibers in the twin screw process section
- Die face and strand pelletizing systems
- Direct sheet/film extrusion with gear pump front-end
- Assembly, disassembly and cleaning twin screw elements
- Maintenance for screws, shafts and barrels

1:00 pm Lunch/adjournment

Place: Classroom sessions will be held at the Hyatt House in Branchburg, NJ. Extrusion demos will be at the Leistritz Process Laboratory. (3 miles away) Transportation is provided to/from the demonstrations.

Cost: \$800 prior to April 15th; \$880 thereafter (includes handouts, lunches, and dinner on day 1)

For additional information please contact May Zaw at 908/685-2333 ext 614 or e-mail mzaw@leistritz-extrusion.com

Bioplastics

Twin Screw Workshop
May 16-17, 2023