



End-User Forum dedicated to Extrusion-Enabled Pharmaceutical Processes (E2P2)

“Thermo Fisher Scientific invites you to join and actively contribute to an end-user forum dedicated to extrusion-enabled pharmaceutical processes and technologies.”

November 9, 2017; 8:30am – 4:00 pm

Rutgers University, Busch Campus Center, Room 174, 604 Bartholomew Rd, Piscataway, NJ 08854

- Who should attend: current and future practitioners of extrusion-enabled pharmaceutical processes keen to share their experience with all participants and to create an end-user forum for all to enrich their knowledge in this exciting and fast-evolving space
- Following organizations will be presenting: Merck & Co, Aurobindo, BASF, MilliporeSigma, Glatt, Hovione, St. John's University, Rutgers University, Thermo Fisher Scientific, etc.
- Presentations, round-table discussions and Q&A sessions dedicated to:
 - a) Best practices in hot melt extrusion and twin screw granulation
 - b) Recent advances in polymers for oral dosage forms
 - c) Implant development and production platforms
 - d) Enabling of continuous pharmaceutical manufacturing
- **Attendance will be limited to the first 25 registered companies!**

Register at thermofisher.com/furl

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End-User Forum Agenda

8:30 am

Best practices in hot melt extrusion and twin screw granulation

- Fundamentals of Extrusion Operations for Amorphous Dispersions and Twin Screw Granulation, Jim de Nunzio, Principal Scientist, Merck & Co.
- Twin Screw Granulation - Process Understanding, Rohit Ramachandran, Rutgers
- Development of a twin screw granulation process for poorly compactable drugs, Ankita Shah, Postdoctoral Fellow, St. John's University
- Enhancing Amorphous Solid Dispersion Miscibility and Drug Saturation through Ternary Systems, Traciann Scirbona, Scientist, Hovione

10:15 am – Coffee Break

10:30 am

Recent advances in polymers for oral dosage forms and their use in HME

- A closer look into amorphous drug formulations: Impact of the molecular state, Finn Bauer, Global Head of Solid Formulations R&D, MilliporeSigma
- Designing HME products for abuse resistance, Alberto Cuitino, Professor, Rutgers University
- Polymers: Meeting the challenges with poorly soluble molecules by HME, Shaukat Ali, Technical Manager, BASF
- Continuous preparation of pharmaceutical salts by a novel solvent-free method using a twin screw extruder, Ankita Shah, Postdoctoral Fellow, St. John's University

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Agenda, continued...





Agenda, continued

12:30 – Lunch Break

1:15 pm – Is **Patheon** (now a Thermo Fisher Scientific company) your next CDMO? Anil Kane, Executive Director, Global Head of Technical & Scientific Affairs, Patheon

1:30 pm

Implant development and production platforms

Extrusion-enabled integration of high-potency API in a drug delivery system, Margarethe Richter, Application Scientist, Thermo Fisher Scientific

2:00 pm

Enabling of continuous pharmaceutical manufacturing

- Continuous Granulation and Drying for the Manufacture of Tablets Utilizing Twin Screw Extrusion, Ed Godek, Manager Process Technology, Glatt
- Conversion from batch granulation to continuous melt granulation, Ram Patwari, Process Engineer, Aurobindo

3:00 pm

Quo Vadis

- Formulation of 3D printed tablets for rapid drug release by Fused Deposition Modeling (FDM), Ankita Shah, Postdoctoral Fellow, St. John's University
- Future of product and process development, Prof. Fernando Muzzio, Rutgers University

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