

2021 Polymer Characterization Short Course

November 1 & 2, 2021, 9:00 AM – 5:00 PM (ET)

Virtual Format

Featured Speakers



Helena Chiang



Dr. Bo Li



Dr. François Bargain



Dr. Chris White

Helena Chiang, Research Manager, Underwriters Laboratories Taiwan Co., Ltd. “Evaluation of long-term thermal properties for polymeric materials”

Dr. Bo Li, Manager, PolyK Technologies, LLC “Characterization of Piezoelectric & Ferroelectric Polymers”

Dr. François Bargain, Research Scientist, Arkema, “How SAXS-WAXS can help to better understand the influence of semi-crystalline polymer polymorphism on material properties in industrial applications”

Dr. Chris White, Senior Managing Scientist, Exponent, LLC “Dripping Windows to Leaking Walls, Using Analytical Instrumentation to Solve Real-World Problems”

To register go to the TAFDV website at <https://tafdv.org/>

If questions e-mail: larry.judovits@hotmail.com

Full attendee fee: \$125, Students: \$50

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COMPOSITE MATERIALS



2021 Polymer Characterization Short Course

November 1 & 2, 2021, 9:00 AM – 5:00 PM (ET)

Virtual Format

Program: Monday Day 1

8:55-9:00 AM **Welcome**

9.00-9.10 AM **Opening remarks:**

Dr. Andrew R. McGhie, Associate Director, Emeritus, Laboratory for Research on the Structure of Matter, UPENN

Dr. Steve Sauerbrunn, Center for Composite Materials, UDEL

Morning Session Chair: Dr. Larry Judovits, Arkema

9:10-10:30 AM **Helena Chiang**, Research Manager, Underwriters Laboratories Taiwan Co., Ltd.
“Evaluation of long-term thermal properties for polymeric materials” Featured Speaker

10:30-12:00 PM **Dr. Amandaa Brewer**, Senior Research Scientist, Arkema, “An Overview of Size Exclusion Chromatography for Polymer Characterization”

Lunch (12:00-1:00 PM) Break or Open Vendor Slot

Afternoon Session Chair: Dr. Sara Reynaud, Arkema & NATAS President Elect

1:00-2:30 PM **Dr. Catherine Smith**, Research Scientist, Arkema “Applications of Mass Spectrometry for the characterization of polymers”

2:30-3:45 PM **Dr. Ehsan Akbari Fakhrabadi**, Field Application Scientist, TA Instruments, “DMA, the path to mechanical testing from soft gels to stiff solids”

3:45-5:00 PM **Dr. Bo Li**, Manager, PolyK Technologies, LLC “Characterization of Piezoelectric & Ferroelectric Polymers” Featured Speaker

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Program: Tuesday Day 2

8:55-9:00 AM **Welcome**

9:00-9:05 AM **Opening remarks:**

Dr. Larry Judovits, Principal Scientist, Arkema

Morning Session Chair: Dr. Steve Sauerbrunn, Center for Composite Materials, UDEL

9:05-10:30 AM **Dr. François Bargain**, Research Scientist, Arkema, “How SAXS-WAXS can help to better understand the influence of semi-crystalline polymer polymorphism on material properties in industrial applications” Featured Speaker

10:30-11:15 PM **Dr. Elena Moukhina**, Netzsch, Physicist, “Polymer Kinetics Analysis of Decomposition, Curing and Crystallization”

11:15-12:00 PM **Dr. Aurélien Neveu**, Particle Scientist, GranuTools, “Characterizing the flowability and rheology of powders and granular materials”

Lunch (12:00-1:00 PM) Break or Open Vendor Slot

Afternoon Session Chair: Dr. Larry Judovits, Arkema

1:00-2:15 PM **Dr. Caleb B. McDonald**, Technology & Applications Consultant, Mettler “Fast Scanning Calorimetry”

2:15-3:00 PM **Dr. David Salas de la Cruz**, Associate Professor, Rutgers University – Camden, College of Arts and Sciences, “Fabricating Advanced Carbohydrate Based Films”

3:00-3:45 PM **Michael Wells**, Manager - Materials Science Research, Purple, “Determination of Structural Properties of commercial polymers- an emphasis on industrial development.”

3:45-5:00 PM **Dr. Chris White**, Senior Managing Scientist, Exponent, LLC “Dripping Windows to Leaking Walls, Using Analytical Instrumentation to Solve Real-World Problems” Featured Speaker

5:00-5:05 PM **Closing Remarks and upcoming events**

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