The PIRC at Penn College is one of the top plastics technology centers in the nation for research, development, and education related to injection molding, extrusion, blow molding, rotational molding, and thermoforming.

Partnering with the PIRC gives plastics manufacturers the opportunity to increase productivity while decreasing capital expenditures, operating costs, and development costs.

Services offered to plastics manufacturers include:
- New product development
- Material selection
- Testing and analysis
- Custom compounding
- Process technology
- Education and training

PIRC clients have access to:
- Industrial-scale process equipment and extensive material testing laboratories
- World-class training programs (including customized, on-site training programs, workshops, online courses, and national seminars)
- Expert consulting staff, including Penn College faculty
- Student interns and graduates (B.S. and A.A.S. degrees) that bring education and experience to the workplace

Penn College is one of six colleges in the nation offering plastics degree programs accredited by the Engineering Technology Accreditation Commission of ABET.

B.S. – Plastics & Polymer Engineering Technology
A.A.S. – Plastics & Polymer Technology

Penn College graduates are in high demand for positions in manufacturing operations, process technology, supervision, research and development, product and machine design, and more. Companies employing Penn College alumni include Arkema, Currier Plastics, DuPont, First Quality, General Cable, Greiner Packaging, Quadrant, Ring Container, Sekisui SPI, Truck-Lite, Tyco, and West Pharmaceutical Services.

Plastics Innovation & Resource Center (PIRC)

The course content is co-presented in the lab by Jerry Ramsey of Akro Plastics, Kent, Ohio, specializing in molding.
I'm a hands-on learner, so the hands-on workshop on Hands-On Rotational Molding & Advanced Materials Workshop is going to be fantastic. I'd love to participate in the new Shell Polymers Rotational Molding Center of Excellence. The new In-Line Gas Shuttle will be operational during this workshop.

The two-day workshop provides core content that connects material preparation to molding parameters and final part quality. It accomplishes this by adding classroom and hands-on sessions covering the latest developments in advanced materials for rotational molding such as biopolymers and clear polypropylene. Attendees will have the opportunity to network and share experiences with others working in day-to-day molding operations.

NEW MACHINE

A new STP Rotomachinery Inc. LRM 1500 Laboratory In-Line Gas Shuttle will be operational during this workshop. This state-of-the-art equipment is housed in the new Shell Polymers Rotational Molding Center of Excellence.

CLASSROOM

SESSION 1
Overview of rotational molding
Latest developments in molding technology

SESSION 2
Molding from inside the mold – process controls and in-mold videos
Bubble formation and removal (materials properties, venting, and pressure)
Cooling methods and their effect on properties

SESSION 3
Basic mechanisms of shrinkage and warpage
Contributing factors to shrinkage and warpage
Control factors – before, during, and after molding

SESSION 4
Multi-Layer Molding and Advanced Materials

- Classroom session on the range of materials available for rotomolding and new developments
- Multi-layer molding session demonstrating two-layer solid and foam cross sections

WORKSHOP SCHEDULE

SESSION 1
Material Preparation and Testing
Demonstrate features of grinding equipment and producing rotomolding powders
Show how grinding parameters can influence quality of grind
Demonstrate methods of evaluating powder quality

SESSION 2
Molding Parameters
Demonstrate benefits of a mold temperature measuring system
Demonstrate effects of internal mold pressure on cross-section and surface finish

SESSION 3
Part Testing
Demonstrate low temperature (-40°F) drop-dart impact testing
Perform impact tests and calculation on under-cured, good-cured, and over-cured parts
Review other test methods such as tensile, wall thickness, and density

SESSION 4
Multi-Layer Molding and Advanced Materials
Classroom session on the range of materials available for rotomolding and new developments
Multi-layer molding session demonstrating two-layer solid and foam cross sections

Cancellations
Registrant cancellations will be accepted and full refunds issued when notified, at least two weeks prior to the class start date. For cancellations within two weeks of the class start date, the company is responsible for the full cost. Companies may substitute alternate personnel for paid seats.

The PIRC may cancel or postpone any course because of insufficient enrollment or other unforeseen circumstances. If a program is canceled or postponed, the PIRC will refund registration fees, but cannot be held responsible for any related costs, charges, or expenses (including cancellation/change fees assessed by airlines or travel agents).

Registration

Dates & Times
May 14 & 15, 2019

Location
Pennsylvania College of Technology
Breuder Advanced Technology & Health Sciences Center (ATHS), Room E140
206 College Avenue, Williamsport, PA 17701

Cost & Registration
$1,095
ARM and SPE RM members save $100.

Please note in comments.

The registration fee covers instruction, materials, refreshments, and lunch. Registrants are responsible for all other meals, lodging, and airfare. The fee may be paid by check, MasterCard, Visa, Discover, purchase order, or authorization to invoice your company. Payment must be received in advance. Please wait for confirmation of enrollment before booking your flight. Check-in begins one-half hour before class starts on the first day. Casual business/jeans attire is recommended as appropriate for plastics processing and testing lab. Safety glasses will be provided.

Register online at www.pct.edu/pirc/workshops

Call 570-321-5533 for more information

Hotel Reservations
Attendees are responsible for making their own lodging arrangements. Your registration fee does not include hotel accommodations. You will receive a confirmation email with information on hotel room blocks with discounted rates. Hotels book quickly so it is important not to delay in reserving a room.

Airports
The Williamsport Regional Airport (IPT) provides commuter air service via American Airlines through Philadelphia. Free shuttle service will be provided to and from the Williamsport Regional Airport, hotel, and College by our preferred hotels, so a car rental is not necessary (before 11 p.m.). Other airport options, with approximate driving times (rental car needed):
- University Park (UNV) – 1 hour
- Wilkes-Barre/Scranton International (AVP) – 1.5 hours
- Elmira/Corning (NY) Regional (ELM) – 1.5 hours
- Harrisburg International (MDT) – 2 hours
- Philadelphia International (PHL) – 3 hours

Please wait for confirmation of enrollment before booking your flight.

Penn College encourages qualified persons with disabilities to participate in its programs and activities. If you anticipate needing any type of accommodation or have questions about the physical access provided, please contact Disability Services at 570-326-0026, TTY 570-326-5628, or fax 570-326-4601 in advance of your participation or visit.

Association of Rotational Molders (ARM) promotes rotational molding worldwide and provides the tools to make good rotomolders and their suppliers great. The association provides sales and marketing assistance, holds annual and regional meetings, distributes technical publications and newsletters, and much more. For information on ARM, please visit www.rotomolding.org.

The SPE Rotomolding Division is comprised of a prestigious group of scientists, engineers, educators, and professionals who continually advise the industry.

Platinum Sponsor

Registration