PLASTICS INNOVATION & RESOURCE CENTER (PIRC)

The PIRC 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 plastic 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 that bring education and experience to the workplace

PIRC, Dept. 26
Pennsylvania College of Technology
One College Avenue
Williamsport, PA 17701
570.321.5533 • pirc@pct.edu • pct.edu/pirc

Penn College is one of only 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 AkzoNobel, Currie Plastics, DuPont, First Quality, General Cable, Grafter Packaging, Mitsubishi Chemical Advanced Materials, Ring Container, SEKISUI SPI, Truc-Lite, Tyco, and West Pharmaceutical Services.

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 570.323.5235, TTY: 570.323.5238, or fax 570.327.4501 in advance of your participation or visit.
The Rotational Molding & Advanced Materials Workshop was established in 2019 at Pennsylvania College. The workshop is an opportunity for industry professionals to take advantage of the resources at the Center while boosting their skillset with advanced training and collaborating with others in their field.

This two-day workshop offers specialized hands-on lessons in rotational molding, led by industry leader and operations expert R. Dru Laws and guest presenter Jerry Ramsey of Akro Plastics. The workshop will highlight the connection between material preparation, molding, and final part quality. Participants will explore the latest materials and industry advancements.

Designed for supervisors, lead operators, technicians, and engineers, this specialized offering will encourage networking to allow professionals to share industry lessons in rotational molding, led by industry leader Jerry Ramsey of Akro Plastics. The workshop will highlight the connection between material preparation, molding, and final part quality. Participants will explore the latest materials and industry advancements.

Designed for supervisors, lead operators, technicians, and engineers, this specialized offering will encourage networking to allow professionals to share industry experience.

NEW MACHINE
A new STP Rotomachinery Inc. LRM 1500 Laboratory NEW MACHINE is an opportunity for industry professionals to take advantage of the resources at the Center while boosting their skillset with advanced training and collaborating with others in their field.

“Excellent course. I feel like I am at Disneyland. I loved it that much.”
David Sharp, Plant Manager, Acrylon Plastics
Saskatoon, Sask., Canada

“Being new to rotational molding, I thought the course gave a very good overview of the practice in general. Dru and the staff at Penn College walked us through many of the steps and processes to be successful in the roto molding trade.”
Shane Poole, Floor Supervisor, Enviorc Enterprises
Smithfield, NC

WORKSHOP DETAILS
The workshops are held at the Shell Polymers Rotational Molding Center of Excellence. The workshop offers hands-on experience with the latest equipment and materials. Participants will learn from industry leaders and experts in the field.

The workshop consists of two main sessions:

- CLASSROOM SESSIONS
  - SESSION 1: Material Preparation and Testing
    - Features of grading equipment and producing rotomolding powders
    - Grinding parameters and their influence on quality
    - Methods of evaluating powder quality
  - SESSION 2: Molding Parameters
    - Benefits of mold temperature measuring system
    - Effects of internal mold pressure on cross-section and surface finish
  - SESSION 3: Part Testing
    - Low temperature (-40°F) drop-dart impact testing
    - Impact tests and calculation on under-cured, good-cured, and over-cured parts
    - Other test methods such as tensile, wall thickness, and density
  - SESSION 4: Multi-Layer Molding and Advanced Materials
    - Range of material available for rotomolding and new developments (classroom session)
    - Multi-layer molding with two-layer solid and foam cross sections (demonstration)

- LABORATORY SESSIONS
  - Material Preparation and Testing
  - Molding Parameters
  - Part Testing
  - Multi-Layer Molding and Advanced Materials

WORKSHOPS

SESSION 1
- Material Preparation and Testing
  - Features of grading equipment and producing rotomolding powders
  - Grinding parameters and their influence on quality
  - Methods of evaluating powder quality

SESSION 2
- Molding Parameters
  - Benefits of mold temperature measuring system
  - Effects of internal mold pressure on cross-section and surface finish

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

SESSION 4
- Multi-Layer Molding and Advanced Materials
  - Range of material available for rotomolding and new developments (classroom session)
  - Multi-layer molding with two-layer solid and foam cross sections (demonstration)

REGISTRATION
Pre-registration is required, and includes course instruction with hands-on materials, morning refreshments, and lunch for two days. A complimentary networking dinner will be held on day one. Registrants are responsible for all other meals and lodging. Registrants will receive a confirmation email with information on hotel room blocks with discounted rates and airport options.

Registration is limited and on a first-come, first-served basis. Please wait for confirmation of enrollment before booking your flight.

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

DATES & TIMES
August 11 & 12, 2020
Tuesday & Wednesday, 8:30 a.m.–4:30 p.m.

COST & REGISTRATION
$1,095
The registration fee may be paid by check, MasterCard, Visa, Discover, purchase order, or authorization to invoice your company.
Register online at pct.edu/pirc or call 570.321.5533.

APPROPRIATE DRESS
Casual business/jeans attire is recommended for plastics processing and testing lab. Safety glasses will be provided.

CANCELLATION
Penn College reserves the right to cancel a seminar. Registrants will be notified in case of cancellation. Penn College is not responsible for penalty fees or any costs incurred by the registrant due to cancellation of a seminar. Registration 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 at any time.

STRATEGIC PARTNERS
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, 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.

Hotel Reservations Registrants are responsible for making their own lodging arrangements. The registration fee does not include hotel accommodations. Registrants will receive a confirmation email with information on hotel room blocks with discounted rates.

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. A car rental is not necessary (before 11 p.m.). Other airport options, with approximate driving times (rental car needed):
- University Park (ISEE): 1 hour
- Wilkes-Barre/Scranton International (AVP): 1.5 hours
- Elmina/Corning (NY) Regional (ELM): 1.5 hours
- Harrisburg International (MDT): 2 hours
- Philadelphia International (PHL): 3 hours

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