R. Dru Laws, industry leader and operations expert, graduated from Brigham Young University with a BS in Mechanical Engineering, and a minor in Mathematics. He graduated top of his class with distinction (honors) from the Queens University of Belfast in Northern Ireland with an MSc in Polymer Engineering, emphasizing in Rotational Molding.

Laws has several polymer process related patents and guest-lectured at several universities on the subject. In addition to running his own consulting business, he oversees the development efforts for Chroma Corporation’s Rotational Molding Division and was more recently the Director of Operations for Rotonics Manufacturing and a Division Counselor for the SPE Rotational Molding Division.

Laws regularly contributes articles to plastic publications and participates as a presenter at conferences worldwide. He conducted and hosted several process workshops, helping manufacturers around the world better understand the principles of Polymer Foaming & Process Control. He published a 53-page technical resource guide on Rotational Foam Molding, which is now in its second edition.

Laws is currently the Senior Vice President of Seljan Company, with direct responsibility over the entire plastics manufacturing division of the Company. He is the current President of ARM (Association of Rotational Molders).

The course content is co-presented in the lab by Jerry Ramsey of Akro Plastics, Kent, Ohio, specializing in molding.

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 Arkema, Currier Plastics, DuPont, First Quality, General Cable, Graeter Packaging, Mitsubishi Chemical Advanced Materials, Ring Container, SEKISUI SPI, Truck-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 570.321.5528, TTY: 570.321.5528, or fax 570.327.4501 in advance of your participation or visit.
The Rotational Molding & Advanced Materials Workshop of Technology to support applied research and was established in 2019 at Pennsylvania College In-Line Gas Shuttle is used in this workshop. A new STP Rotomachinery Inc. LRM 1500 Laboratory NEW MACHINE experience. Designed for supervisors, lead operators, technicians, and engineers, this specialized offering will encourage participants’ 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 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 In-Line Gas Shuttle is used in this workshop.

WORKSHOP DETAILS
Shell Polymers Rotational Molding Center of Excellence was established in 2019 at Pennsylvania College of Technology to support applied research and development in the rotomolding industry. The Rotational Molding & Advanced Materials 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 experience.

NEW MACHINE
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CLASSROOM
SESSION 1
• Rotational molding
• 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 effects on properties
SESSION 3
• Basic mechanisms of shrinkage and warpage
• Contributing factors to shrinkage and warpage
• Control factors (before, during, and after molding)

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 (SCM) – 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

WORKSHOPS
SESSION 1
• Material Preparation and Testing
  • Features of grinding 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 handout materials, morning refreshments, and lunch for two days. A complimentary networking dinner will be held 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
May 12 & 13, 2020
Tuesday & Wednesday, 8:30 a.m.–4:30 p.m.

CANCELLATION
Penn College reserves the right to cancel a seminar. Registrants will be notified in case of cancellation. Rauwendaal Extrusion Engineering, Inc. and Penn College are 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.

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

COST & REGISTRATION
$1,095 ($995 if registered by April 6, 2020)

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
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CASE STUDY
"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 rotomolding trade."
Shane Poole, Floor Supervisor, Envicor Enterprises Smithfield, NC