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 has guest-lectured at several universities on the subject. He has directed Chroma Corporation’s Rotational Molding Center of Excellence, managed the operations for Rotonics Manufacturing, and led Seljan Company’s entire plastics division.

He has served as a Counselor for the SPE Rotational Molding Division, and has spent the last decade on ARM’s Board of Directors (currently past president). 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 50-page technical resource guide on Rotational Foam Molding, which is now in its second edition.

Laws is currently CEO of Halltech Systems, as well as a senior member of the executive team for Titan Fuel Tanks & Tango Manufacturing.

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

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 (material 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)

CLINIC

SESSION 1

- Features of grinding equipment and producing rotomolding powders
- Grinding parameters and their influence on quality
- Methods of evaluating powder quality

SESSION 2

- 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)

STRATEGIC PARTNERS

Association of Rotational Molders (ARM) promotes rotational molding worldwide and provides the tools to make good rotomolders and their suppliers greener. 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.

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 incurred by the registrant due to cancellation of a seminar. Registration cancellations will be accepted and full refunds will be 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.

WORKSHOPS

REGISTER

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 Breeder Advanced Technology & Health Sciences Center (ATHS), Room E140 306 College Avenue, Williamsport, PA 17701

DATES & TIMES

May 11 & 12, 2021

Tuesday–Wednesday, 8:30 a.m.–4:30 p.m.

COST & REGISTRATION

$1,095 ($995 if registered by April 5, 2021)

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.

HOTELS

Registrants are responsible for making their own lodging arrangements. Registrants will receive a confirmation email with information on hotel room blocks with discounted rates at participating hotels.

AIRPORTS

The Williamsport Regional Airport (IPT) provides commuter air service via American Airlines through Philadelphia, PA. Free shuttle service will be provided to and from the Williamsport Regional Airport, hotel, and College by our preferred hotels. A car rental (before 11 p.m.). Other airport options, with approximate driving times (rental car needed):

- University Park (SCE) – 1 hour
- Harrisburg International (MDT) – 2 hours
- Philadelphia International (PHL) – 3 hours

APPROPRIATE DRESS

Casual business/jeans attire is recommended for plastics processing and testing lab. Safety glasses are required.

*Present airline operation may vary.