

Composites One and Polynt Present

COMPOSITES PRODUCTION MANAGEMENT

THE CLOSED MOLD SHOP

June 6 -7, 2017 • North Kansas City, MO



Join us June 6 - 7, 2017, for Composites Production Management - The Closed Mold Shop! Learn about advances in processes like closed mold and out-of-autoclave technologies in this hands-on educational course! Gain the knowledge and experience you need to take your process to the next level! This instructional workshop presents practical techniques for a variety of closed mold processes (LRTM, VIP, Reusable Bagging) and informative sessions critical to operating a modern composites fabrication plant. (Hazardous Material Handling, Process Flow Design and Analysis, Quality Management.)

The day and a half event, hosted at Polynt's Technical Center in North Kansas City, Missouri will combine classroom instruction with live demos and hands-on process sessions. Please register now to reserve your seat for this free event. If you are thinking about closed molding, want to know more about advanced composites, want to gain knowledge on out-of-autoclave options, or even want to learn how to produce tooling, this FREE day and a half workshop has something for everyone! The complete course schedule can be found on the following pages.

Featured Suppliers:

Lantor · 3M · ChemTrend · 3A / Baltek · United Initiators · SWORL
Polynt Composites · RTM North · Airtech · Owens Corning · Vectorply · Chomarat

Hurry! Limited number of spaces available!

Register online by visiting www.goo.gl/forms/qDMD92dKvDeGuYfj1
Or email Rachel Menges at rachel.menges@compositesone.com for more information.



Location:

Polynt Technology Center 821 E. 16th Ave.
N. Kansas City, MO 64116



AGENDA

June 6 (8 AM – 12 PM)

Vacuum Infusion (VIP): What's Next?

- Review of Basic VIP Theory
- Cutting-Edge Bagging Techniques
- Basic Troubleshooting, How to Make Mistakes without Trying, and Repair During or After Infusion
- Setting Up A VIP Production Shop
- Composites One Materials and Accessories for VIP including Cosmetic and Surface Finish Strategies
- Equipment & Fittings for VIP (MVP)
- Now What – Next Steps
- Composites One Value Proposition
- Making Tooling with Closed Molding –Optiplus Infusion

Demo: Hands-on and instructor led demonstrations illustrating latest advances in resin infusion materials and process techniques.



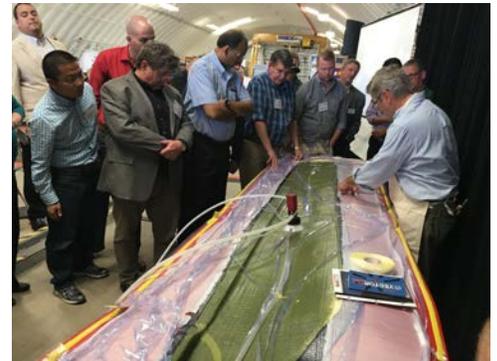
June 6 (1 PM – 5 PM)

Building the Best Reusable Bag to Produce the Best Parts (1 PM – 5 PM)

- Scrim Reinforcement Strategy
- Bag Sealing
- Spray Application
- Positive V-Groove Vacuum Seal
- Reusable Vacuum Bag Techniques, Applications and Material Selection
- Easy Repair of Your Reusable Bag
- Mold Prep for Reusable Bag Application
- The Styrene Factor
- Equipment for Making a Bag and Fittings for Optimization (MVP)
- Now What – Next Steps
- Composites One Value Proposition

Demo: Make a Reusable Bag Using 100% Spray-On Method

Demo: Make a Part Using a Reusable Bag



June 7 (8 AM – 12 PM)

Advances in Light Resin Transfer Molding (Light RTM) and Resin Transfer Molding (RTM) Technology

- ArmorStar XT for Closed Molding
- Common Pitfalls of Light RTM Production and How to Avoid Them
- Proper Flange Details and Mold Production for Production Success
- Setting Up the Light RTM Shop – Work Cell Productivity
- Review of New Tooling Techniques like Temp Controlled and CnC
- Gel Coat Considerations for Closed Molding - Equipment & Systems for Light RTM/RTM Success (MVP)
- New Materials to Advance Your Process including Mold Systems and Fast-Cure Epoxy Systems
- Equipment & Systems for Light RTM/RTM Success (MVP)
- Now What – Next Steps
- Composites One Value Proposition

Demo: Light RTM Tooling – Methods for Converting Current Molds

Demo: Temperature Controlled Molding for Rapid Cure



June 7 (8 AM – 12 PM)

The Tooling Decision – What’s Right For Me?

- Importance of Mold Quality on Part Quality
- Impact of Part Design on Tooling
- Rapid Prototyping for Plug Making
- Controlling Dimensions in Tooling
- The Case for Temperature Controlled Tooling
- High Temperature Tooling
- Mold Release & Mold Conditioning
- Equipment & Systems for Tooling Success (MVP)
- Now What – Next Steps
- Optiplus infusion for tooling Demo: Resistive heating tooling

Demo: Proper mold release application



----- **HOTEL INFORMATION** -----

Argosy Casino and Hotel

(7 miles, 12 minutes from Polynt)
777 Argosy Casino Pkwy, Riverside, MO 64150 (816) 746-3100

Harrah’s North Kansas City

(6 miles, 11 minutes from Polynt)
1 Riverboat Dr
North Kansas City, MO 64116 (816) 472-7777

Hampton Inn and Suites at Country Club Plaza

(9 miles, 15 minutes from Polynt)
600 Summit, Kansas City, Missouri, 64112
816-448-4600

----- **Reception** -----

We would like to invite you to attend a supper-by-the-bite and cocktail reception on Tuesday, June 6 from 6:00 p.m. - 9:00 p.m. at the

Chicken N Pickle
Address: 1761 Burlington St, North Kansas City, MO 64116
Phone: (816) 537-1400

At the reception, you can meet many representatives from the companies attending as well as our facilitators and supplier sponsors. Please attend as this event is a part of the workshop experience. The reception offers you a less formal time to discuss projects and questions with the speakers and presenters.

----- **Food** -----

Breakfast and Lunch will be provided during the workshop both days. Please come hungry!