

PRIAMUS System Technologies, LLC
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PRIAMUS Seminar: *"Plastics Processing for Profitability"* Bios / Abstracts

David Kazmer, PhD, Professor of Plastics Engineering, University of Massachusetts at Lowell

"A Comparison of Seven Transfer Methods for Velocity to Pressure Switchover"

Molding processes typically utilize a velocity controlled filling stage followed by a pressure controlled packing stage. The effectiveness of seven different switchover methods are considered, including: 1. ram position, 2. injection time, 3. machine pressure, 4. nozzle pressure, 5. runner pressure near the sprue, 6. cavity pressure near the gate, and cavity temperature at the end of flow. The results indicated that the machine controlled switchover methods had a lower short term variation in the quality of the molded parts, but the other switchover methods were more robust with respect to rejecting long term process variations.

David Kazmer is Professor of Plastics Engineering at UMass Lowell. His academic work is motivated by industry experiences as an engineer at General Electric and as Director of Research and Development at Synventive Molding Solutions. He is the recipient of over ten different recognition awards, an inventor with over 20 patents, and the author of more than two hundred publications.

Umberto Catignani, President, Orbital Plastics Consulting, Inc. and Paulson School of Molding Partner

"The Four Primary Plastics Processing Conditions for Injection Molding"

The methodology of the Four Primary Plastic Processing Conditions focuses primarily on Plastic Temperature and Plastic Pressure inside the cavity with their overall effect on the plastic part dimensions. This approach ultimately leads to the PVT relationship of plastic and explains why consistent machine conditions DO NOT produce consistent part dimensions, but in fact consistent in-cavity plastic conditions produce consistent part dimension.

Umberto Catignani is President of Orbital Plastics Consulting, Inc., President of the Southern Section of the Society of Plastics Engineers (SPE) and serves on the Plastics Technology Advisory Board for West Georgia Technical College. Mr. Catignani is also Co-founder, Partner and Principal Instructor for the Paulson School of Molding (PSM). He received his Bachelor's of Science in Materials Engineering from the University of Cincinnati and a Master's of Science in Polymer Engineering from The University of Akron. Mr. Catignani has work experience in a variety of industries. He was a Lead Senior Injection Molding Process Engineer for General Motors and Delphi Packard Electric Systems in Ohio. He was a Project Manager with Husky Injection Molding Systems service and sales organization in Georgia and a Contract Engineer to Steel Profitability Consulting in Indiana. He has also worked at IBM's Advanced Materials Engineering Laboratory in New York and WCI Steel in Ohio.

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PRIAMUS Seminar: "Plastics Processing for Profitability" Bios / Abstracts

David Dreher, Head of Global Applications, PRIAMUS AG
Susan Montgomery, President, PRIAMUS LLC

"Controlling the Melt Front"

One effective and simple way to control part quality in injection molding is to measure cavity temperature. The precise position of the melt is always known. This is not the case when cavity pressure is measured. There are distinct advantages and cost benefits utilizing closed loop control systems based upon the detection of the melt front.

David Dreher is the Head of Global Applications for PRIAMUS System Technologies, AG. His experience includes over 20 years in injection molding, including production management of plants in Italy and Switzerland. He worked for 13 years as Manager of Global Applications at Kistler Instruments AG, and he has been with PRIAMUS since 2000, as one of the founding members of the company.

Susan E. Montgomery has been the President of North American operations at PRIAMUS System Technologies, LLC since 2002. She has 14 years of experience in injection molding, 9 of them in plastics process instrumentation and control. She earned her Bachelor of Science in Chemical Engineering from Cleveland State University, completed some graduate work at SUNY Buffalo in Surface Chemistry is a member of SPE and Tau Beta Pi Engineering Honor Society.

Martin Neff, Engineering Manager, Arburg

"Innovative Manufacturing For Cost Effective Molding"

For being competitive in the now a days more and more global market environment the actual manufacturing process needs to be reviewed and improved on a regular basis. Cost savings and increasing product quality are the key words. In this presentation, process and machine requirements, as well as innovative manufacturing systems will be shown. Examples of actual cost effective production cells with integrated up- and down stream solutions round of the presentation.

Martin Neff has been Project and Engineering Manager at Arburg, Inc. since 2007. He graduated with Dipl.-Ing. (FH) in Mechanical Engineering from Fachhochschule Karlsruhe in 1996 after an apprenticeship as an industrial mechanic for machinery and assembly lines. Mr. Neff joined Arburg in the same year and has also served in the role of international technical support consultant.

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PRIAMUS Seminar: “Plastics Processing for Profitability” Bios / Abstracts

Dave List, Regional Sales Manager, Southeast USA, Canada and Mexico, Gammaflux “How Hot Runner Controller Features Can Make a Difference in Profitability”

Today’s hot runner controllers enable customers to maximize profitability by:

1. Tight and fast control algorithm
2. Extensive diagnostics shorten troubleshooting time
3. Data collection can be used to prove part quality
4. Predictive heater alarms indicate when it is time to change a failing heater before it fails and causes loss of production
5. Ability to continue molding when thermocouples fail
6. Mold ID can be used to ensure that the correct setup is used for the tool in the machine eliminating scrap due to improper setups

A good hot runner controller does more than heat the tool. With advanced features, the best controllers make better parts, minimize scrap and minimize downtime while providing documentation to ensure good quality.

Dave List has been with Gammaflux for 15 years and currently serves as regional sales manager in the Southeast US, Canada and Mexico. He also has written technical manuals, prepared sales brochures for new products and done extensive customer training. Dave has over 30 years experience in temperature control systems with companies including Gammaflux, Barber Colman, Honeywell and Leeds & Northrup. His education includes a BSEE in Electrical Engineering from Carnegie Mellon University and an MBA from Northern Illinois University.