

PUBLICATIONS:

Journal Publications

1. Modi, D., Johnson, M., Long, A., Rudd, C., “**Analysis of Pressure Profile and Flow Progression in the Vacuum Infusion Process**”, Composites Science and Technology, Article in Press.
2. Modi, D., Johnson, M., Long, A., Rudd, C., “**Investigation of Pressure Profile and Flow Progression in the Vacuum Infusion Process**”, *Plastics, Rubber and Composites: Macromolecular Engineering*, 36 (3): 101-110, 2007.
3. Modi, D., Correia, N., Johnson, M., Long, A., Rudd, C., Robitaille, F., “**Active Control of the Vacuum Infusion Process**”, *Composites Part A: Applied Science and Manufacturing*, 38 (5): 1271-1287, 2007.
4. Modi, D., Simacek, P., Advani, S., “**Influence of Injection Gate Definition on the Flow Front Approximation in Numerical Simulations of Mold Filling Processes**”, *International Journal for Numerical Methods in Fluids*, 42 (11): 1237-1248, 2003.

Conference Publications

1. Modi, D., Johnson, M., Long, A., Rudd, C., “**Experimental Validation of Pressure and Fill-time Formulations for the Vacuum Infusion Process**”, *Proceedings of the 9th International Conference on Flow Processes in Composite Materials (FPCM-9)*, Montreal (Canada), 2008.
2. Endruweit, A., Modi, D., Long, A., “**Investigation of the Processing Parameters of a 3D Woven Reinforcement**”, *Proceedings of the 13th European Conference on Composite Materials (ECCM-13)*, Stockholm (Sweden), 2008.
3. Modi, D., “**Active Control of Flow Progression in the Vacuum Infusion Process using Real-Time Flow Simulations**”, *Presented at the SAMPE-UK & Ireland and IOM³ Student Seminar*, London (UK), 2006.
4. Modi, D., Johnson, M., Long, A., Rudd, C., “**Comparison of Pressure Profile between a Radial Flow VI and RTM Processes**”, *Proceedings of the 12th European Conference on Composite Materials (ECCM-12)*, Biarritz (France), 2006.
5. Modi, D., Johnson, M., Long, A., Rudd, C., “**Active Control of Vacuum Infusion Process**”, *Proceedings of the 8th International Conference on Flow Processes in Composite Materials (FPCM-8)*, Douai (France), 355-362, 2006.
6. Modi, D., Johnson, M., Long, A., Rudd, C., “**Investigation of the Pressure Distribution in a Radial Flow Vacuum Infusion Process**”, *Proceedings of the 27th SAMPE-Europe International Conference*, Paris (France), 2006.
7. Modi, D., Johnson, M., Long, A., Rudd, C., Robitaille, F., “**Controlled Vacuum Infusion of Heterogeneous Fibrous Preforms**”, *Proceedings of the 15th International Conference on Composite Materials (ICCM-15)*, Durban (South Africa), 2005.
8. Long, A., Modi, D., Johnson, M., Rudd, C., “**Flow Process Control for Liquid Composite Moulding using “Real-Time” Process Modelling**”, *Proceedings of the 26th SAMPE-Europe International Conference*, Paris (France), 2005.
9. Modi, D., Simacek, P., Advani, S., “**Modeling Injection Location and Flow Enhancement Media in Liquid Injection Molding Simulations for Composites Processing**”, *Proceedings of the 9th International Conference on Composites Engineering (ICCE-9)*, San Diego (USA), 2002.

10. Modi, D., Simacek, P., Advani, S., "**Numerical Issues in Mold Filling Simulations of Liquid Composites Processing**", *Proceedings of the 10th U.S.-Japan Conference on Composite Materials*, Stanford (USA), 2002.
11. Delalic, J., Cohen, R., Chen, J., Silage, D., Lin, J., Kaku, V., Modi, D., Moussaoui, C., "**Numerical and Experimental Simulation of Electro-Thermal Behavior of VLSI Chips**", *Proceedings of the Society of Photo-Optical Instrumentation Engineers (SPIE) - 34th International Symposium on Microelectronics (IMAPS)*, Baltimore (USA), 218-223, 2001.