## G01.04

## **Experimental and Theoretical Investigation of Abrupt Contraction Flows of LDPE Melts with Advanced Differential Constitutive Equations**

\*Martin Zatloukal (a), Tim Gough (b), Mike T. Martyn (b), Phil Coates (b), Petr Saha (a)

 (a) Polymer Centre, Faculty of Technology, Tomas Bata University in Zlin, Czech Republic
(b) IRC in Polymer Science & Technology, School of Engineering, Design & Technology, University of Bradford, UK

Theoretical and experimental analysis were performed for investigation of stress field generating during the abrupt contraction flow of LDPEs melts. For this purpose, flow visualization cell experiments and viscoelastic FEM analysis were used.