

APPLIED RHEOLOGY SPECIAL INTEREST GROUP

Summer 2014 Newsletter

Welcome to Applied Rheology SIG newsletter!

Thanks to a group of dedicated board members over the past two years, the Applied Rheology SIG has grown dramatically! It is our pleasure to welcome you to the first newsletter for this year.

ANTEC 2014

We begin with a recap of the SIG sessions at ANTEC 2014. There were total 15 talks focusing on the experimental rheology involving nanofibers, isomers, silicones, composites, rheometry, modeling and processing simulation. The talks were arranged into 3 sessions, and all of them were well attended (20 to in some cases more than 100). Particularly, there were 3 invited talks from distinguished experts of the field:

- Rheology at surface and at the nanoscale, by Prof. G. McKenna, President of Society of Rheology, Texas Tech University
- The shear and bulk rheology of polymers and nano-composites, by Prof. S. Simon, Recipient of the 2014 SPE Engineering Research Award, Texas Tech University
- Novel method of measuring polymer melt viscosity using single screw extruder with closed discharge state. by Prof. M. Kim, President of MKE Company, Hannam University

More importantly, the best paper award was presented to William Aquite (co-authors of Christian Schafer, Jovani Favero and Prof. T. Osswald) who spoke

on “Internal and free-surface viscoelastic flow simulations using the Corotational Maxwell constitutive model”. *We encourage you to look up the papers at the SPE website.*



Prof. Gregory McKenna receiving a home-made appreciation plaque from Prof. Wei Zheng (Technical Program Chair)



Prof. Myung Ho Kim receiving a home-made appreciation plaque from Prof. Wei Zheng (Technical Program Chair)

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A board meeting was held during ANTEC 2014, and 8 representatives attended the meeting. They were Wei Zheng (Univ. of Wisconsin-Stout), Tieqi Li (Nova Chemicals), Mary Krenceski (Momentive) and Narasimharao (Rao) Dontula (W. L. Gore and Associates), Himanshu Asthana (SABIC Innovative Plastics), Manojkumar Chellamuthu (SABIC Innovative Plastics), Qian Qin (GAF), and a SPE liaison, Kathy Schacht. The topics discussed and decisions reached were:

- Choose the Technical Program Chair for ANTEC 2015 – Tieqi Li (Secretary of 2014) was selected, and he has graciously volunteered his time
- Get industry sponsorship for the Best Paper Award for next year – Manojkumar Chellamuthu has taken the lead as the Sponsorship Chair
- Grow the SIG membership – Himanshu Asthana has taken the role as the Membership Chair
- Initiate the SIG newsletters – Narasimharao Dontula keeps working as the Communication Chair and takes the Treasurer responsibilities
- Keep the business organized – Qian Qin has volunteered for the Secretary position
- Maintain a vibrant board – Wei Zheng (TPC of 2013, 2014) is the Chair of the SIG

ANTEC 2015 – Call For Papers

Please consider a submission to ANTEC 2015 (Mar. 23-25, Orlando, FL) by Sept. 26. Topics of the Applied Rheology SIG may include:

- Rheometry and Analytical Tools
- Rheology Applications in Processing and Simulation

- Rheology of:
 - Polymer Solutions, Melts,
 - Glasses and Soft matters
 - Blends, Composites, and Gel-like Systems
 - Novel Materials and Applications
 - Tutorials on the above topics are also strongly welcome (No Paper is required)!

Board Members @ ANTEC 2014



From left to right: Narasimharao (Rao) Dontula, Manojkumar Chellamuthu, Tieqi Li, Qian Qin, Mary Krenceski, Wei Zheng, and Himanshu Asthana

Please look forward to the next newsletter where we introduce our board members in detail. Have a great summer!

*Best Regards,
Narasimharao (Rao) Dontula
Communication Chair
Applied Rheology SIG*