

SASOR 2018 Rheology Course

Presenters:

Prof Chris Macosko – University of Minnesota

Prof Gareth McKinley - MIT

Tuesday 25th September 2018

| | | |
|---------------|---|--|
| 08:30 - 09:00 | Registration and coffee | |
| 09:00 - 10:00 | Introduction: Key Phenomena, Material Functions | Chris Macosko |
| 10:00 - 10:50 | Linear Viscoelasticity | Gareth McKinley |
| 10:50 - 11:05 | Tea/Coffee | |
| 11:05 - 12:00 | Microstructural Basis of Viscoelasticity | Gareth McKinley |
| 12:00 - 13:00 | General Viscous Liquid | Chris Macosko |
| 13:00 - 13:45 | Lunch | |
| 13:45 - 14:30 | LVE class exercise | McKinley and Macosko plus SASOR folks |
| 14:30 -15:30 | Shear Rheometry | Chris Macosko |
| 15:30 - 16:00 | Tea/Coffee | |
| 16:00 - 17:00 | Microstructural Basis of Shear Thinning, Thickening | Gareth McKinley |
| 17:30 | Mixer with refreshments | |

Wednesday 26th September 2018

| | | |
|---------------|---|--|
| 08:30 - 09:30 | Nonlinear Viscoelasticity | Chris Macosko |
| 09:30 - 10:30 | Extensional Rheometry 1: Dilute Solutions | Gareth McKinley |
| 10:30 - 11:00 | Tea/Coffee | |
| 11:00 - 12:00 | Extensional Rheometry II: Entangled Systems | Gareth McKinley |
| 12:00 - 12:45 | Problem solving | McKinley and Macosko plus SASOR folks |
| 12:45 - 13:30 | Lunch | |
| 13:30 -14:30 | Yield Stress, Flocculated Dispersions | Chris Macosko |
| 14:30 -15:30 | Interfacial Rheology | Gareth McKinley |
| 15:30 - 15:45 | Tea/Coffee | |
| 15:45 - 16:45 | Gels and Crosslinked Systems | Chris Macosko |
| 16:45 - 17:45 | Micro-rheometry | Gareth McKinley |