

Amherst Rheology Course (ARC18): “Synergy of Experiment with Theory in Rheology”

Two-Day Rheology Course; Location: Luxembourg. Time: March 21-22, 2018

Objective of Course: A quantitative approach to rheology is presented and taught in tutorials: handling of data from rheological experiments, plotting, overlay, extraction of material parameters, modelling with theory, data storage and retrieval and more. On two parallel screens, short lectures on rheology fundamentals will be combined with hands-on tutorials. This will generate an interdisciplinary group experience of discussing rheological experiments and theory and application. On the first day, participants will master rheology on a quantitative level and also will learn the underlying concepts that lead to the quantitative results. Continued tutorials on the second day will allow participants to see the rheology of their own materials in new ways, discover, and draw quantitative results. Experiment and theory are well integrated in the new teaching tools of the course.

Teaching Tool: The two screens in parallel have the purpose of directly converting the taught material on the first screen into quantitative answers on the second screen. Participants will learn to merge experiment with theory graphically on their own PC. The hands-on rheology practice is supported by the IRIS software as teaching tool, which we will install on all PCs. Participants are requested to bring their own Windows-based PC so that they can participate in the many “hands-on” tutorial projects. The user-friendly IRIS platform allows exploration of the newest developments in rheology.

Lecturers: Experimentalists and theoreticians will teach the course jointly: Manfred Wagner, Berlin, Germany; Jörg Baller, Luxembourg; H. Henning Winter, Amherst MA, USA

Who Should Participate? The only prerequisites for participants are an elementary knowledge of rheology and some familiarity with PCs (no knowledge of computer language needed).

Request Information at winter@umass.edu or look under <http://rheology.tripod.com/ARC.htm>

Enrollment: <http://www.kwt-uni-saarland.de/de/buchungen/rheology/amherst-rheology-course.html>
The enrollment fee (550€ for participants from academics, 660€ for participants from industry) includes two lunches but does not include lodging or transportation. Participants can continue to use the IRIS software for a trial period