



# FMSP Lectures

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Modern Concepts in Rheology,  
-significant roles in understanding complex fluids-

2015 January 13 (Tue) 13:00~17:00

2015 January 14 (Wed) 10:00~17:00

2015 January 15 (Thu) 10:00~16:30

Seminar Room AB in ERI Building No1 2nd floor  
( [http://www.eri.u-tokyo.ac.jp/access\\_map/index.html](http://www.eri.u-tokyo.ac.jp/access_map/index.html) )

## Course Objectives/Overview:

Rheology is a hot field in characterizing the behavior of complex fluids. Starting from basic concepts we describe modern aspects of rheology, which have been used in the study of complex fluids. These concepts are applicable to earth sciences because most materials share more or less the nature of complex fluid. We would like to show amazing characteristic behaviors in rheology based on experimental approaches.

## Schedule:

1: basic concepts and methods in rheology, 2: multi-phase, multi-components system, colloids, suspensions and emulsion, 3: non-newtonian behavior, 4: flow-rheology coupling, 5: modern techniques in characterizing rheology

## Course-Related Websites:

<http://www.eri.u-tokyo.ac.jp/kurikuri/Education/Lecture2014/Rheology.html>