

19. REOLOŠKI SEMINAR

4 – 6 JUNIJ 2024, PORTOROŽ

Tuesday, 4. 6. 2024

1 Day – Basics of Rheology I. part - Rotation

8:30 – 9:00 Registration

9:00 – 9:10 Meet and greet

9:10– 10:30 Introduction Rheology and Viscosity test methods: From empirical to absolute measurements; Definitions of shear stress, shear rate, viscosity. Rotational tests and their application types of flow behavior

10:30 – 10:40 Short Break

10:40 – 12:30 Types of flow behavior, thixotropy, temperature dependency

12:30 – 13:30 Lunch break (included)

13:30 – 15:00 Continuation of temperature dependency and avoiding measurement errors

15:00 – 15:10 Short Break

15:10 – 16:30 Problem solving with rheometer

17:00 – 20:00 Pogostitev na terasi

Wednesday, 5. 6. 2024

2 Day – Basics of Rheology II. Part - Oscillation

9:00– 10:30 Introduction visco-elastic behavior; Definition of deformation; shear moduli, ideal elastic behavior; Introduction to oscillatory tests

10:30 – 10:40 Short Break

10:40 – 12:30 Oscillatory measurement and their applications, amplitude sweep; Oscillatory measurements and their applications, frequency sweep

12:30 – 13:30 Lunch break (included)

13:30 – 15:00 Time – dependent visco - elastic behavior: recovery, gelling, curing temperature; Dependent visco-elastic behavior: DMTA, gelling, curing

15:00 – 15:10 Short Break

15:10 – 16:00 Case study Onkraj viskoznosti: Uporaba reoloških lastnosti, kombinirane reološke metode in nekaj praktičnih primerov; Marko Bek

16:00 End

Thursday, 6. 6. 2024

3 Day – RheoCompass workshop

9:00– 10:00 Introduction to RheoCompass

10:00– 10:10 Short Break

10:10 – 12:00 Setup of measurements, Analysis, Reports, etc.

12:00 – 13:00 Lunch break (included)

13:00 – 14:10 Practical measurements on MCR Rheometer

14:10 – 14:20 Short Break

14:20 – 15:30 Practical measurements on MCR Rheometer and final discussion

15:30 End

