

Summer school on aqueous systems in theory and practice through workshops on MD simulations and/or food chemistry

Location: Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia

Date: 04. 07. 2022 – 15. 07. 2022

	Monday, July 4	Tuesday, July 5	Wednesday, July 6	Thursday, July 7	Friday, July 8	Saturday, July 9	Sunday, July 10
Morning	10:00 - 11:20 prof. Janez Cerar University of Ljubljana Lecture Room 3 Presentation of the Summer School, CEEPUS network, UL FKKT	10:00 - 11:20 prof. Larisa Zoranić University of Split Lecture Room 3 Introduction to molecular dynamics	10:00 - 11:20 prof. Arbenita Hasani University of Pristina Lecture Room 3 Water treatment and quality requirements for drinking water	10:00 - 11:20 prof. Zoltán Kovács MATE Budapest Lecture Room 3 Introduction to near-infrared spectroscopy (On-Line Lecture)	10:00 - 11:20 prof. Tomaž Urbič University of Ljubljana Comp. Classroom 3100 Use of QM software Zimere Musliji Lect. Room 3 (9:00→) Analyses of DNA	10:00 - 11:20 prof. Davor Kovačević University of Zagreb Lecture Room 3 Polyelectrolyte complexation in solution and at the surface	F R E E
	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	
	11:40 - 13:00 Dominika Slabajna University of Ljubljana Lecture Room 3 Safety in laboratories	11:40 - 13:00 Larisa Zoranić Lecture Room 3 Introduction to molecular dynamics	11:40 - 13:00 Arbenita Hasani Lecture Room 3 Water treatment and quality requirements for drinking water	11:40 - 13:00 Zoltán Kovács Lecture Room 3 Introduction to near-infrared spectroscopy (On-Line Lecture)	11:40 - 13:00 Tomaž Urbič Comp. Classroom 3100 Use of QM software Zimere Musliji Analysis of extracted DNA Lab 32 →12:00) Visit to UL BF (12→13:30)	11:40 - 13:00 Davor Kovačević Lecture Room 3 Polyelectrolyte complexation in solution and at the surface	
13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	13:00 - 14:30 Lunch + ind. discussions	
Afternoon	14:30 – 15:50 prof. Jaroslav Katona University of Novi Sad Lecture Room 3 Introduction to rheology of aqueous systems	14:30 – 15:50 Peter Ogrin University of Ljubljana Comp. Classroom 3100 lab. exercises in MD simulations Jaroslav Katona Laboratory 32 Applications of rheology in Food Science	14:30 – 15:50 Peter Ogrin lab. exercises in MD simulations CC 3100 Zimere Musliji MSc Mother Teresa University Skopje Lecture Room 3 Molecular techniques in food technology	14:30 – 15:50 Larisa Zoranić Comp. Classroom 3100 Proteins in water - exercise for molecular dynamics beginners Arbenita Hasani Lecture Room 3 Emerging trends and technologies in Food processing	14:30 – 17:30 Contact persons CEEPUS meeting 15:30 – 17:30 Students Guided tour to Ljubljana	14:30 – 15:50 Comp. Classroom 3100 lab. exercises in MD simulations Zoltán Kovács Lecture Room 3 NIR spectroscopy (food science applications) (On-Line Workshop)	
	15:50 – 16:10 Coffee break	15:50 – 16:10 Coffee break	15:50 – 16:10 Coffee break	15:50 – 16:10 Coffee break		15:50 – 16:10 Coffee break	
	16:10 - 17:30 Jaroslav Katona Lecture Room 3 Introduction to rheology of aqueous systems	16:10 - 17:30 Peter Ogrin lab. exercises in MD simulations CC 3100 Jaroslav Katona Applications of rheology in Food Science Lab 32	16:10 - 17:30 Peter Ogrin lab. exercises in MD simulations CC 3100 Zimere Musliji Extraction of DNA from different foods Lab 32	16:10 - 17:30 Larisa Zoranić Proteins in water - exercise ... CC 3100 Arbenita Hasani Lecture Room 3 Emerging trends and technologies ...	18:30 → Students and teachers Social evening and dinner at Union Pub in Ljubljana	16:10 - 17:30 lab. exercises in MD simulations CC 3100 Zoltán Kovács Lecture Room 3 NIR spectroscopy (food science applications) (On-Line Workshop)	

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	Monday, July 11	Tuesday, July 12	Wednesday, July 13	Thursday, July 14	Friday, July 15
Morning	10:00 - 11:20 dr. Jitka Krouská VUT Brno Lecture Room 3 Introduction to calorimetry	10:00 - 11:20 prof. Jan Jirsák University of Usti nad Labem Lecture Room 3 Liquids in strong electric fields - an MD perspective	10:00 - 11:40 prof. Dominik Heger Masaryk Univ. Brno Lecture Room 3 Theoretical background of optical spectroscopies	9:00 departure of bus for Žalec 10:00 arrival to Žalec - visit to Slovenian Institute of Hop Research and Brewing - visit to Eco-Museum of Hop-Growing and Brewing Industry in Slovenia - visit to Beer Fountain	10:00 - 11:20 Janez Cerar (moderator) Lecture Room 3 Presentation of student reports + discussions
	11:20 – 11:40 Coffee break	11:20 – 11:40 Coffee break	11:40 – 12:00 Coffee break		11:20 – 11:40 Coffee break
	11:40 - 13:00 Jitka Krouská Lecture Room 3 Introduction to calorimetry	11:40 - 13:00 Jan Jirsák Lecture Room 3 Liquids in strong electric fields - an MD perspective	12:00 - 13:30 Dominik Heger Lecture Room 3 Theoretical background of optical spectroscopies		11:40 - 13:00 Janez Cerar (moderator) Lecture Room 3 Presentation of student reports + discussions
	13:00 - 14:00 Lunch + individual discussions	13:00 - 14:30 Lunch + individual discussions	13:30 - 14:30 Lunch + individual discussions	13:00 - 14:30 Lunch (town of Žalec)	13:00 - 14:30 Lunch + individual discussions
Afternoon	14:00 - 15:50 Peter Ogrin Computer Classroom 3100 lab. exercises in MD simulations Jitka Krouská Laboratory 32 Laboratory exercises: practical experiments in calorimetry	14:30 - 15:50 Peter Ogrin Computer Classroom 3100 preparation of student reports Janez Cerar Lecture Room 3 preparation of student reports	14:30 - 15:50 Jan Jirsák Computer Classroom 3100 tutorials in MD simulations of liquids in electric fields Lecture Room 3 + Laboratory 32 Dominik Heger, Janez Cerar Laboratory exercises in optical spectroscopies	14:30 departure of bus for Celje Old Castle (celjski Stari grad) approx. at 14:50 arrival to Celje Old Castle visit to Celje Old Castle life in 15 th century (weapons, scriptorium, rooms, instruments of torture)	14:30 - 15:50 Lecture Room 3 Closing of the Summer School + issuing Certificates of Attendance
	15:50 – 16:10 Coffee break	15:50 – 16:10 Coffee break	15:50 – 16:10 Coffee break		
	16:10 - 17:30 Peter Ogrin Computer Classroom 3100 lab. exercises in MD simulations Jitka Krouská Laboratory 32 Laboratory exercises: practical experiments in calorimetry	16:10 - 17:30 Janez Cerar Lecture Room 3 Water, electrolytes, polyelectrolytes	16:10 - 17:30 Jan Jirsák Computer Classroom 3100 tutorials in MD simulations of liquids in electric fields Lecture Room 3 + Laboratory 32 Dominik Heger, Janez Cerar Laboratory exercises in optical spectroscopies	17:30 departure of bus from Celje Old Castle for Ljubljana 18:30 arrival to Ljubljana	