

	11 th Greta Pifat-Mrzljak International School of Biophysics Programme									
	September 30 Sunday	October 1 Monday	October 2 Tuesday	October 3 Wednesday	October 4 Thursday	October 5 Friday	October 6 Saturday	October 7 Sunday	October 8 Monday	October 9 Tuesday
9 – 9 ⁴⁵	ARRIVALS	Watts 1	Zagrovic 1	Ziherl 1	Podgornik 1	Podgornik 3	Grubmueller 1	Steinhoff 1	Vaziri 2	Siber 1
10 -10 ⁴⁵		Watts 2	Zagrovic 2	Ziherl 2	Podgornik 2	Wade 1		Steinhoff 2	Vaziri 3	Siber 2
COFFEE										
11 ¹⁵ -12		Oostenbrink 1	Ban1	Sackmann 1	Voth 1	Wade 2	Grubmueller 2	Smith 1	Tolić 1	Siber 3
12 ¹⁵ -13		Oostenbrink 2	Ban2	Sackmann 2	Voth 2	Stark 1	Perczel 1	Smith 2	Tolić 2	Closing remarks
LUNCH										
16-17	REGISTRATION 17-17 ¹⁵ INTRODUCTION 17 ¹⁵ -19 Cantor 1&2 20 ³⁰ -22 Wellcome drink	Watts 3	Zagrovic3	Ziherl 3	EXCURSION	Stark 2	Perczel 2	Steinhoff 3	Tossi 1	DEPARTURE
17-18		Oostenbrink 3	Ban3	Sackmann3		Wade 3	Perczel 3	Vaziri 1	Tossi 2	
DINNER									GALA	
20- 22		Posters	Short talks	Posters		Posters	Short talks	Short talks	DINNER	

LECTURES:

Cantor 1: Dealing with stochastic noise in very dilute samples allows effective noninvasive pre-natal DNA diagnostics

Cantor 2: Deuterium isotope effects may turn nutrients into highly effective drugs

Watts 1: 'Principles of solid state NMR for the study of biomolecules' Watts 2: 'Solid state NMR for structural studies of large integral membrane proteins' Watts 3: 'Receptor dynamics and structure in membranes resolved using solid state NMR'

Oostenbrink 1: 'Ensembles and sampling, leading to molecular dynamics simulations' Oostenbrink 2: 'Structure refinement using molecular dynamics simulations (NMR observables)'

Oostenbrink 3: 'Calculation of free energies from molecular simulation'

Šiber 1: 'Mean field electrostatics explained through applications to viruses' 1

Šiber 2: ⁴Mean field electrostatics explained through applications to viruses' 2 Šiber 3: ⁴Mean field electrostatics explained through applications to viruses' 3

Ban 1: 'Structural basis of iterative fatty acid synthesis catalyzed by giant multienzyme complexes'

Ban 2: 'Mechanistic insights into co-translational protein folding, processing and membrane targeting'

Ban 3: ⁴Atomic structures of the eukaryotic ribosome and insights into the regulation of protein synthesis'

Ziherl 1: "Shape and structure of simple animal tissues: A mechanical perspective." 1 Ziherl 2: "Shape and structure of simple animal tissues: A mechanical perspective." 2 Ziherl 3: "Shape and structure of simple animal tissues: A mechanical perspective." 3

Sackmann 1: 'Thermoelasticity of the self organisation and biological function of composite cell membranes'

Sackmann 2: 'Microviscoelasticity and viscoplasticity of semiflexible biomacromolecular networks and cells'

Sackmann 3: ⁴Cell Dynamics. From intracellular transport to locomotion and immunological reactions'

Podgornik 1: DNA-DNA electrostatic interactions Podgornik 2: Long range order in DNA mesophases Podgornik 3: Ordering and condensation of DNA in bacteriophages

Wade 1: ⁴An introduciton to the BD simulation method and recent applications to biomacromolecular systems'1

Wade 2: 'An introduciton to the BD simulation method and recent applications to biomacromolecular systems'2

Wade 3 : 'An introduciton to the BD simulation method and recent applications to biomacromolecular systems'3

Stark 1: 3D Structure determination by electron microscopy: Introduction into various techniques

Stark 2: How to visualize structural dynamics by single particle cryo electron microscopy

Voth 1: 'Multiscale Theory and Simulation for Biomolecular Systems' Voth 2: 'The Challenge of Modeling Proton Transport in Proteins'

Grubmueller 1: 'Atomistic simulations of biological macromolecules I: Introduction and Method'

Grubmueller 2: 'Atomistic simulations of biological macromolecules II: What can we learn?'

Perczel 1: 'Peptide and protein folding as seen by NMR (and ECD)' Perczel 2: 'In cell NMR of intrinsically dynamic proteins' Perczel 3: 'Quantitative ECD analysis of peptides and proteins: the CCA+ method'

Vaziri 1: "A Physicist Approach to Biology?' 1 Vaziri 2: "A Physicist Approach to Biology' 2 Vaziri 3: "A Physicist Approach to Biology' 3

Steinhoff 1: 'Site-directed spin labeling and electron paramagnetic resonance (EPR) spectroscopy: An introduction' Steinhoff 2:' Inter- and intramolecular distance measurements using cw and pulse EPR

spectroscopy'

Steinhoff 3: 'Structure and Dynamics of membrane proteins studied by EPR spectroscopy'

Žagrović 1 ⁴Conformational averaging in structural biology: challenges and computational solutions³

Žagrović 2: 'Conformational averaging in structural biology: challenges and computational solutions'2

Žagrović 3: 'Conformational averaging in structural biology: challenges and computational solutions'3

Tossi 1: 'Membrane-active helical antimiicobial peptides"

Tossi 2: "Methods of studying AMPs (antimicrobial peptides)"

Tolić 1: 'Microtubules and motor proteins I'

Tolić 2: 'Microtubules and motor proteins II'

Smith 1: 'Introduction to Coarse graining - Physical background and applications '1 Smith 2: 'Introduction to Coarse graining - Physical background and applications '2