

21-25/10/2017, CEITEC Brno, Autumn school

**From structures to optical functions: layered materials serving biosensing**

Sat 21	welcome, TWINFUSYON session		title
Sun 22	basics		
	Humlicek	9--11	Optical properties of bulk: response fun
	Holy	11--12	X-rays as electromagnetic radiation I
	<b>lunch</b>	12--13	
	Holy	13--14	X-rays as electromagnetic radiation I
	Klenovsky	14--15	Optical properties of nanostructures
Mo 23	Dubroka	9--10	IR: optical response of free carriers and
	Munzar	10--12	Introduction to quantum theory of opti
	<b>lunch</b>	12--13	
	Tiwald	13--14	Advances in ellipsometric instrumentati
	Tiwald	14--15	Biological applications of ellipsometry
	Farka	15--16	Immunosensors for detection of pathog
	CEITEC lab tour	16--18	
Tu 24	Klapetek	9--10	Thin-film metrology
	Cobet	10--11	tba
	Chaloupka	11--12	Photonic crystals
	<b>lunch</b>	12--13	
	Caha	13--14	X-ray reflectivity: Experiment and case :
	Rozboril / Humlicek	14--16	exercise session
	<b>dinner (downtown: Stopka)</b>	19--22	
We 25	Novak	9--10	Small angle x-ray scattering - basics and
	Hemzal	10--11	Identification of biomolecular motifs us
	Dvorak	11--12	Total internal reflection ellipsometry ur
	<b>lunch</b>	12--13	
	summary, discussions	13--15	

ctions

II

phonons  
cal response of solids

ion

genic bacteria

studies

applications  
ing Raman spectroscopy  
ider SPR conditions