

# Program of the ESS Science Symposium

## Prague, November 17-18, 2014

Day	Time			Speaker	Talk title	Topic
	<b>11.00-13.00</b>			<b>Welcome and refreshment</b>		
<b>Monday, Nov 17</b>	13.00-13.10	10	Short T1	Petr Lukas	Welcome and ESS project update	<b>ESS and BEER diffractometer update</b> <b>Chair: P.Sittner</b>
	13.10-13.25	15	Short T2	Michelle Everett	ESS instruments update	
	13.25-13.40	15	Short T3	Andreas Schreyer	BEER project update	
	13.40-14.00	20	Short T4	Jan Saroun	BEER diffractometer update – neutron optics	
	14.00-14.20	20	Short T5	Jan Pilch	BEER diffractometer update - sample environment for in-situ experiments	
	14.20-14.40	20	Short T6	Jochen Fenske	BEER diffractometer update - sample environment for other experiments	
	<b>14.40-15.05</b>	<b>25</b>		<b>Helena Van Swygenhoven-Moens</b>	<b>Questions &amp; Discussion</b>	
	15.05-15.30	25	Talk 1	Florian Pyczak	TiAl Research with photon and neutron sources – present and future	<b>Material testing experiments</b> <b>Chair: P.Staron</b>
	15.30 -15.55	25	Talk 2	David Rafaja	Stacking fault energy determination by using in situ diffraction	
	15.55 -16.20	25	Talk 3	Tobias Panzer	In-situ biaxial mechanical testing at the neutron time-of-flight diffractometer POLDI	
				<b>COFFEE BREAK</b>		
	16. 50-17.15	25	Talk 4	Christian Mathis	Exploring deformation mechanisms in magnesium alloys using in-situ neutron diffraction and acoustic emission techniques	
	17.15-17.35	25	Talk 5	Andreas Stark,	In situ synchrotron experiments using a quenching and deformation dilatometer	<b>Material processing experiments</b> <b>Chair: P.Strunz</b>
	17.35-18.00	25	Talk 6	Grzegorz Korpała	Experimental modelling and numerical interpretation of experiment using GPU-calculation	
18.00-18.25	25	Talk 7	Debashish Mukherji	Measurement with neutron and synchrotron helps high temperature Co-Re alloy development		
	<b>20.00-22.00</b>			<b>ESSS Dinner</b>		

<b>Tuesday, Nov 18</b>	9.00-9.25	25	TALK 8	Shu Yan Zhang	Neutrons for Materials Science and Engineering Research at ISIS: Recent studies and future possibilities	<b>Research at TOF diffractometers</b> <b>Chair: P. Beran</b>	
	9.25-9.50	25	TALK 9	Ke An	Fatigue Deformation Behavior of HCP Alloys by Real-time in-situ Neutron Diffraction		
	9.50-10.15	25	TALK 10	Stefanus Harjo	Trials of in-situ materials processing at TAKUMI		
				<b>COFFEE BREAK</b>			
	10.45-11.10	25	TALK 11	Arne Kromm	Capabilities of Diffraction Techniques in Welding Research	<b>In-operandi experiments</b> <b>Chair G. Nowak</b>	
	11.10-11.35	25	TALK 12	Anatoliy Senyshyn	In situ neutron scattering on Li-ion batteries		
	11.35-12.00	25	TALK13	David Dye	SANS, SAXS and synchrotron X-ray studies in super elastic Beta-Ti alloys		
	13.00-12.25	25	TALK15	Michael Preuss (via Internet)	In situ studies of texture evolution during heat treatment of Ti alloys		
				<b>LUNCH</b>			
	14.00-14.25	25	TALK16	Luca Lutterotti	Rietveld Texture Analysis of Materials by Neutron Diffraction	<b>Methods for reconstruction of microstructure info.</b> <b>Chair M.Strobl</b>	
	14.25- 14.50	25	TALK 17	Michael Vedel	Neutron time of flight data analysis at POLDI: implementation in Mantid		
	14.50-15.15	25	TALK 18	Soren Schmidt (via Internet)	Tbd.		
	15.15-15.40	25	TALK 19	Robin Woracek (via Internet)	Applications of neutron Bragg edge imaging & torsional deformation studies using neutron diffraction		
	15.40-16.05	25	TALK 20	Aaron Stebner (via Internet)	In-situ neutron diffraction for advancing constitutive models of shape memory alloys		
16.05-16.30	25		Marcus Strobl	Discussion and Closure of the Symposium			
	<b>19.00-22.00</b>			<b>BEER Dinner</b>			
<b>Wed. Nov.19</b>	9.00-9.30				Session 1	<b>BEER project meeting</b>	
	9.30-10.00				Session 2		
				<b>COFFEE BREAK</b>			
	10.30-11.00				Session 3		
	11.00-12.00				Session 4		
				<b>LUNCH</b>			