2015 IUCr High Pressure workshop – Campinas/SP/Brazil FINAL PROGRAM (including last minute changes)

	SATURDAY – 12 September 2015					
16:00 16:30	Shuttle Buses from the Hotel to the LNLS Campus (please choose between the first or second bus time)					
17:00	Registration					
18:00	Get together reception at the LNLS/CNPEM campus					
20:00 20:30	Shuttle bus back to the Hotel (please choose between the first or second bus time)					

		SUNI	0AY – 13 Sej	otember 2015		
7:40 8:10	Shuttle Buses from the Hotel to the LNLS Campus (please choose between the first or second bus time)					
8:40	Opening ren	pening remarks				
	8:40 – 8:50	Andrzej Kat (IUCr HP Com		come and info about the IUCr HP Commission		
	8:50 – 9:10	Narcizo Souz (LNLS/SIR	11000	come and info about LNLS and SIRIUS		
9:10	High-pressu	gh-pressure experiments and data deposition (Elena Boldyreva & Nicholas Brooks)				
	9:10 - 9:50	K. Dziubek	"Deposition of	high-pressure data and metadata"		
	9:50 – 10:30	J. A. Lima Jr	"High pressure	studies in crystalline amino acids"		
10:30	Coffee Break					
11:00	Crystallographic controls on rheology and elasticity (Guoyin Shen & Lowell Miyagi)					
	11:00 – 11:40	L. Miyagi	"Synchrotron radial diffraction studies at high pressures and temperatures in the diamond anvil cell"			
	11:40 – 12:20	S. Hunt	"Deformation T-Cup: A 6-8 / Kawai-style deformation apparatus for controlled strain-rate deformation at pressures in excess of 20 GPa"			
	12:20 – 13:00	H. Marquardt	"Internally consistent elasticity measurements of FIB-prepared single-crystals at high-pressure and high-temperature by Brillouin spectroscopy and X-ray diffraction"			
13:00			Lunc	h Break		
14:30	High-pressu	re chemistry, syn	thesis and biol	ogical systems (Boris Zakharov)		
	14:30 – 15:10	J. Haines	"Use of Fourier Polymerization	Maps to Study High Pressure Guest Insertion and in Zeolites"		
	15:10 – 15:50	N. Brooks	"Probing memb	rane structure and dynamics at high pressure"		
	15:50 – 16:30	D. Paliwoda	"A new high-pro	essure phase of ferrocene"		
16:30	Poster session (together with a Special Coffee Break)					
19:00 19:30	Shuttle bus back to the Hotel (please choose between the first or second bus time)					

	Monday – 14 September 2015					
7:30 8:00	Shuttle Buses from the Hotel to the LNLS Campus (please choose between the first or second bus time)					
8:30	Computational approaches (Renata M. M. Wentzcovitch)					
	8:30 – 9:10	R. Wentzcovitc	h "Spin crossover systems in the deep mantle"			
	9:10 – 9:50	КМ. Но	"Crystal Structure Predictions Using Adaptive Genetic Algorithm and Motif Search methods"			
	9:50 – 10:30	K. Umemoto	"Volume isotope effects in ice under high pressure by first principles"			
10:30			Coffee Break			
11:00	Materials So	Materials Science (Julien Haines)				
	11:00 – 11:40	V. Solozhenko	"Boron-phosphorus system at high pressure"			
	11:40 – 12:20	A. Cairns	"Pushing the limits: designing next-generation negative compressibility materials"			
	12:20 - 13:00	S. Deemyard	"Structures of lithium isotopes at low temperature"			
13:00	Lunch Break					
14:30	Polymorphism and crystal chemistry (Ania Olejniczak)					
	14:30 – 15:10	M. Pravica	"Novel fluorine chemistry under extreme conditions using useful hard x-ray photochemistry"			
	15:10 – 15:50	M. Probert	"Routes to More Polymorphs and Phase Changes"			
	15:50 – 16:30	R. Miletich	"Decoding the mechanisms and pathways of pressure-driven structural transitions"			
16:30			Coffee Break			
17:00	High-pressu	re crystallograph	y in earth and planetary science (Simon Redfern &			
	Rommulo C	onceicao)				
	17:00 – 17:40	Y. Le Godec	"Next generation synchrotron portable Large Volume High-P/T/Stress/Tomography Cell for Extreme Chemistry and Earth Sciences"			
	17:40 – 18:20	S. Redfern	"New challenges and opportunities for mineral physics of the deep Earth"			
	18:20 – 19:00	R. Conceicao	"The role of clay minerals on the volatiles transport to the mantle and internal heating of the Earth"			
19:00	Shuttle transfer	Shuttle transfer to the restaurant				
19:20		Workshop Dinner (at a Brazilian Churrascaria)				
21:30	Shuttle transfer to the hotel and guest house					

		Tuesda	ay – 15 September 2015				
7.20	Cinet about la De						
7:30 8:00		First shuttle Bus from the Hotel to the LNLS Campus (IF PLANNING TO VISIT THE SIRIUS SITE) Second shuttle Bus from the Hotel to the LNLS Campus (for those not planning to visit Sirius construction site)					
0.00	8:00 – 9:00 VISIT TO SIRIUS CONSTRUCTION SITE						
9:10	New Frontiers in Extreme Conditions Crystallography (Haozhe Liu)						
9.10	9:10 – 9:50	M. Zaworotko	"High pressure applications of porous metal-organic materials"				
	9:50 – 10:30	J. Smith	"Fast compression/decompression of materials in diamond anvil cells"				
10:30	Coffee Break						
11:00	High-pressure spectroscopy (João A. H. da Jornada & Kamil Dziubek)						
	11:00 – 11:40	R. Bini	"Pressure induced reactivity in molecular crystals: accessing the dynamics at molecular level by complementary structural and spectroscopic experiments"				
	11:40 – 12:20	C. Murli	"Hydrogen Bonded Organic Molecular Solids under Pressure"				
	12:20 - 13:00	A. Gomes	"Resonance high-pressure Raman spectroscopy in nanocarbon materials"				
13:00	Lunch Break						
14:30	Rising Stars	(Andrzej Katrusia	k & Simon Clark)				
	14:30 – 15:10	G. Finkelstein	"Magnesiowüstite at high pressure using single-crystal synchrotron methods"				
	15:10 – 15:50	M. Marcondes	"Hybrid experimental/theoretical thermodynamics and thermoelasticity of materials: the high T NaCl pressure scale"				
	15:50 – 16:30	O. Kurakevych	"New silicon and carbon materials by in situ high pressure synthesis"				
16:30			Closing Remarks				
18:00	Shuttle transfer to the hotel						

A tour around the synchrotron should be fitted in the slots during the workshop.