

Monday, December 8th 2014		Hotel Central Branimirova 3, Zagreb
17:00 – 19:00	REGISTRATION	
Tuesday, December 9th 2014		Institute of Physics Bijenička 46, Zagreb
8:00 – 8:45	REGISTRATION	
8:50 – 9:00	WELCOME S. Milošević , director of the Institute of Physics M. de Boissieu , EUROPEAN C-MAC director	
	Chair: A. Bilušić	
9:00 – 9:40	S. Paschen Thermoelectric clathrates: From phonons to correlations	
9:40 – 10:00	P. Tomeš Thermoelectric properties of $\text{Ba}_8\text{Au}_{5.25}\text{Ge}_{40.3}\square_{0.45}$ type-I clathrates	
10:00 – 10:25	P.-F. Lory Phonon propagation and thermal conductivity in the $\text{Ba}_8\text{Ge}_{40.3}\text{Au}_{5.25}$ clathrate and approximant-crystal $\alpha\text{-Al}_{13}\text{Co}_4$	
10:25 – 10:50	P. Gille Crystal growth of FeSb_2 and CoSb_3 by a modified Bridgman technique	
10:50 – 11:10	D. Pelc Insights into charge stripe order in a co-doped cuprate superconductor from nonlinear response	
11:10 – 11:30	COFFEE BREAK	
	Chair: J. Dolinšek	
11:30 – 11:55	M. Feuerbacher High-entropy alloys: growth, microstructure and defects	
11:55 – 12:15	P. Koželj $\text{Ta}_{34}\text{Nb}_{33}\text{Hf}_8\text{Zr}_{14}\text{Ti}_{11}$ – The First Observation of Superconductivity in High-Entropy Alloys	
12:15 – 12:35	S. Guo Eutectic High-Entropy Alloys	
12:35 – 14:30	LUNCH BREAK	Restaurant Andrija Štampar Rockefellerova 4, 3 rd floor, Zagreb
	Chair: N. Barišić	
14:30 – 15:10	K. Deguchi Strongly correlated electrons in icosahedral Yb quasicrystals and approximants	
15:10 – 15:35	S. Vrtnik Geometrically frustrated magnetism of spins on icosahedral clusters: The $\text{Gd}_3\text{Au}_{13}\text{Sn}_4$ quasicrystalline approximant	
15:35 – 15:55	M. Wencka Kondo lattice – fluctuating valence transition in $\text{Ce}(\text{Cu}_{1-x}\text{Ni}_x)_4\text{Al}$ compounds	
15:55 – 16:20	I. Živković Complex Magnetic Order – the Skyrmion Lattice	

Plenary lecture: 35+5 (discussion) min

Invited talk: 20+5 (discussion) min

Short invited talk/Contributed talk: 15+5 (discussion) min

16:20 – 16:45	COFFEE BREAK	
	Chair: Y. Prots	
16:45 – 17:10	L. Forró Graphene: from synthesis to composites	
17:10 – 17:35	M. Kralj “Chemical” and “mechanical” engineering of epitaxial graphene	
17:35 – 18:00	A. Šiber Many-Body Contact Repulsion of Soft Disks	
18:00 – 18:20	A. Waske The first-order transition in magnetocaloric $\text{LaFe}_{11.8}\text{Si}_{1.2}$ probed by in-situ synchrotron XRD	
18:20 – 18:40	B. Weise Magnetic characterization and 3D-imaging of epoxy-bonded magnetocaloric composites	
18:40 – 19:30	DINNER	Institute of Physics <i>Bijenička 46, Zagreb</i>
19:30 – 21:00	Poster session	Institute of Physics <i>Bijenička 46, Zagreb</i>
	Chairs: D. Stanić & K. Velebit	
Wednesday, December 10th 2014		Institute of Physics <i>Bijenička 46, Zagreb</i>
	Chair: H. R. Sharma	
9:00 – 9:40	M. Armbrüster The Surface Dynamics of Intermetallic Compounds in Catalysis	
9:40 – 10:05	R. Widmer Surface science investigations on structures and adsorption sites of single crystal PdGa surfaces	
10:05 – 10:25	A. Al-Mahboob In-situ microscopic study of surfaces of intermetallic compounds for catalysis	
10:25 – 10:45	I. Batistić DFT modeling and transport properties of PdGa and PdIn compounds	
10:45 – 11:05	D. Ivarsson In situ investigation of bulk ZnPd: different synthesis – new results	
11:05 – 11:25	M. Sorić Investigation of thermal stability of Al-Mo films	
12:25 – 11:45	COFFEE BREAK	
	Chair: V. Fournée	
11:45 – 12:10	J. Ledieu Chemical bonding networks and their role on the structure of $\text{Al}_{13}\text{TM}_4$ (TM= Fe, Ru) surfaces	
12:10 – 12:30	M. Meier Influence of the 3-dimensional cluster and preparation conditions on the structure of $\text{Al}_5\text{Co}_2(2\bar{1}0)$ and (100) surfaces	
12:30 – 12:50	M. Heidelmann Comprehensive model of metadislocation motion in $\text{o-Al}_{13}\text{Co}_4$	
12:50 – 14:40	LUNCH BREAK	Restaurant Andrija Štampar <i>Rockefellerova 4, 3rd floor, Zagreb</i>
	Chair: P. Schmutz	
14:40 – 15:20	M.-G. Barthes-Labrousse Surface chemistry of CMAs	

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15:20 – 15:45	A. Joseph Mechanical properties of Al/Al-Cu-Fe composites newly elaborated by Spark Plasma Sintering	
15:45 – 16:05	D. Söpu Molecular dynamics simulations of the deformation behavior of bulk metallic glass composites exhibiting stress-induced martensitic transformation	
16:05 – 16:20	COFFEE BREAK	
	Chair: M. Mihalkovič	
16:20 – 16:45	J. Dshemuchadse Statistics of intermetallic compounds	
16:45 – 17:05	P. Kuczera Cluster-based growth algorithm for decagonal quasicrystals	
17:05 – 17:25	R. Strzałka Simple decoration model for icosahedral quasicrystals based on UAC approach	
17:25 – 17:45	I. G. Aviziotis Investigating Al-CVD using DMEAA: Experiments and modeling of the kinetics and the surface roughness	
17:45 – 18:05	D. Pavuna Can We Help Establish Complex Metallic Systems Center in Zagreb!?	
18:05	Concluding remarks A. Smontara & R. McGrath	
19:30	C-MAC DAYS WORKSHOP DINNER	Restaurant "Klub Književnika" Trg bana Josipa Jelačića, 7/1, Zagreb
Thursday, December 11th 2014		Institute of Physics Bijenička 46, Zagreb
	Chair: M. de Boissieu	
9:00-10:30	Science Board Meeting	
10:30 – 10:50	COFFEE BREAK	
10:50-12:00	Governing Board and General Assembly Meeting	

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