

## Programme of C-MAC Days 2012

**Venue** (11<sup>th</sup>-13<sup>th</sup> December):

AGH University of Science and Technology (AGH-UST), A0 building, 1<sup>st</sup> floor  
Al. Mickiewicza 30, PL 30-059 Kraków

<b>Monday, 10<sup>th</sup> December</b>	<i>“Krakus” (Reymonta Str.15)</i>
17:00 – 20:00	REGISTRATION and RECEPTION
<b>Tuesday, 11<sup>th</sup> December</b>	<i>AGH-UST, Main Hall (A0 building)</i>
08:15 – 09:00	REGISTRATION
09:00	WELCOME
PLENARY LECTURE	
09:15	<b>A.P. Tsai</b> Designing catalysts in terms of electronic structure and microstructure.
SESSION 1	
10:00	<b>A. Waske (C-MAC Promotional Lecture 2012)</b> In-situ X-ray diffraction experiments on magnetocaloric materials.
10:20	<b>Y. Luo</b> Systematic exploration of synthesis pathways to nanoparticulate ZnPd.
10:40	COFFEE BREAK
SESSION 2	
11:10	<b>U. Burkhardt (invited lecture)</b> Microstructure investigations on intermetallic Clathrates.
11:40	<b>T. Janssen (invited lecture)</b> Aperiodicity and physics
12:10	<b>H. R. Sharma</b> Multilayered quasicrystalline overlayers of single elements: templates for molecule adsorption.
12:30	<b>R. Strzalka,</b> Structure model for icosahedral quasicrystals based on Amman tiling and statistical approach.

Length of the oral contributions within the particular sessions:

Invited lecture: 25 + 5 (discussion) min

Regular lecture: 15 + 5 (discussion) min

13:00	LUNCH	<i>“Krakus” (Reymonta Str.15)</i>
SESSION 3		
14:30	<b>B. Bauer (invited lecture)</b> Al <sub>4</sub> (Cr,Fe): more complex than it seemed so far.	
15:00	<b>M. Feuerbacher</b> Single-crystal growth of orthorhombic and monoclinic complex metallic alloys in the system Al-Fe-Pd.	
15:20	<b>M. Hahne</b> Single crystal growth of intermetallic compounds from the Ga-Pd and In-Pd system.	
15:40	COFFEE BREAK	
SESSION 4		
16:10	<b>J. Toboła (invited lecture)</b> First principles calculations of electron transport properties in disordered thermoelectrics.	
16:40	<b>M. Heggen</b> An atomic model for metadislocation motion: how do hundreds of atoms move in a coordinated way?	
17:00	<b>B. Dubiel</b> High spatial resolution EDX mapping of chemical elements partitioning between the $\gamma$ and $\gamma'$ phases in single crystal Ni-base superalloy CMSX-4.	
17:30 – 19:30	POSTER SESSION, BUFFET	
<b>Wednesday, 12<sup>th</sup> December</b>		<i>AGH-UST, Main Hall (A0 building)</i>
SESSION 5		
09:00	<b>P. Popčević (invited lecture)</b> Thermal transport properties in complex metallic alloys.	
09:30	<b>A. Smontara</b> Physical properties of the $\delta$ -FeZn <sub>10</sub> complex intermetallic phase.	
09:50	<b>M. Armbrüster</b> How intermetallic compounds enable a knowledge-based approach in heterogeneous catalysis.	
10:10	<b>C. J. Müller</b> Cu <sub>3</sub> Sn – old friend revised?!	

Length of the oral contributions within the particular sessions:

Invited lecture: 25 + 5 (discussion) min

Regular lecture: 15 + 5 (discussion) min

10:30	COFFEE BREAK	
<b>SESSION 6</b>		
11:00	<b>É. Gaudry (invited lecture)</b> Surface structures of complex metallic alloys.	
11:30	<b>J. Dshemuchadse</b> Symmetry and complex intermetallics.	
11:50	<b>M. Krajčí</b> Low-index surfaces of intermetallic AlPd and GaPd compounds: a DFT study.	
12:10	<b>M. Wardé,</b> Oxidation of the (110) surface of the $\gamma$ -Al <sub>4</sub> Cu <sub>9</sub> complex metallic alloy.	
12:30	<b>L. Pytlík</b> Microscopic description of the $\beta$ - $\beta'$ transition mechanism in Mg <sub>2</sub> Al <sub>3</sub> from CHMC simulation.	
13:00	LUNCH	<i>“Krakus” (Reymonta Str.15)</i>
15:00 – 16:30	POSTER SESSION / Visit to the International Centre of Electron Microscopy for Materials Science and AGH Laboratories	
17:00	BUS TRANSFER to Benedictine Abbey in Tyniec	
18:00 – 21:30	CONCERT and DINNER C-MAC Days 2012 Closing	<a href="#"><i>Benedictine Abbey in Tyniec</i></a>
<b>Thursday, 13<sup>th</sup> December</b>		<i>AGH-UST, A0 building, room 106 (for SB and GB board members only)</i>
08:30	C-MAC Science Board	
10:15	COFFEE BREAK	
10:30	C-MAC Governing Board and General Assembly	
12:30	LUNCH	<i>AGH-UST, A0 building, room 106</i>

Length of the oral contributions within the particular sessions:

Invited lecture: 25 + 5 (discussion) min

Regular lecture: 15 + 5 (discussion) min