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Further information and registration:

Institute: General Materials Properties

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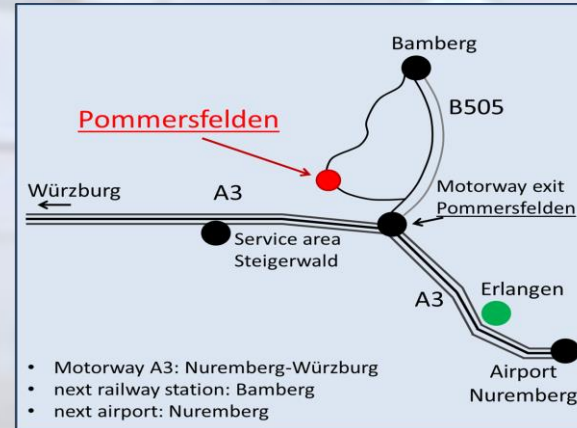
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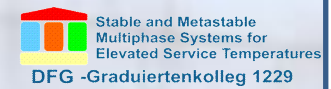
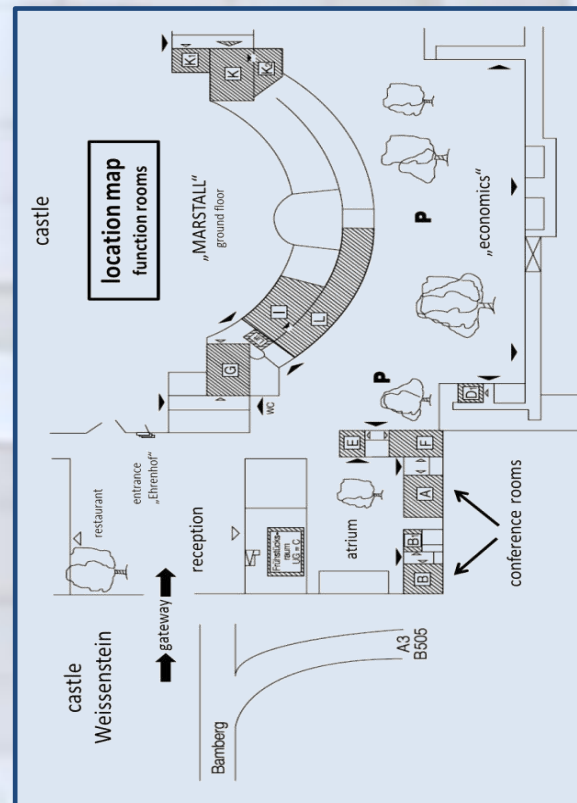
E-mail:

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Directions:



Site map:



International Workshop on Advanced Cobalt-Base Superalloys

July, 22nd - 23rd, 2013

Organizing Committee:

Prof. Dr. Mathias Göken (FAU Erlangen-Nürnberg, DE)

Prof. Dr. Tresa M. Pollock (UC Santa Barbara, USA)

Prof. Dr. Kiyohito Ishida (Tohoku University, Japan)

Dr. Steffen Neumeier (FAU Erlangen-Nürnberg, DE)

Dr. Suzana G. Fries (RUB Bochum, DE)

Local Organizers:

Prof. Dr. Mathias Göken (FAU Erlangen-Nürnberg)

Dr. Steffen Neumeier (FAU Erlangen-Nürnberg)

Sunday, 21st July

Registration and sightseeing
Guided tour through Bamberg (UNESCO world heritage site), departure 14:00



www.bamberg.info

Posters (Poster session, Monday, 16:15 to 17:30)

P.Terberger et al., FZ Jülich, Germany:

Interaction of vacuum plasma-sprayed protective bond coats with γ/γ' -strengthened Co-base superalloys during thermal treatment

I.Lopez-Galilea et al., RU Bochum, Germany:

Effect of heat treatments on thermal stability of intermetallic compounds of a SX Co-base superalloy

K.Demtröder et al., RU Bochum, Germany:

RUS – an innovative technique for characterization of the elastic constants of solids

A.Epishin et al., TU Berlin, Germany:

Temperature dependence of tensile properties of a single crystal Co-based alloy with γ/γ' microstructure

T.Lorenz et al., FAU Erlangen, Germany

Diffusion Brazing of γ' -hardened Cobalt-Base Superalloys

A.Janghorban et al., RU Bochum, Germany:

Investigation of the Co-Ti-W system by means of thin-film combinatorial synthesis and high-throughput analysis

A.Bhowmik et al., Univ. Cambridge, UK

Structural instabilities upon alloying in Co-based superalloys

A.Bauer et al., FAU Erlangen, Germany:

Influence of Iridium on high temperature properties of γ/γ' Co-base superalloys

H.Rehman, FAU Erlangen, Germany:

A comparative study of diffusion in Nickel and Cobalt using diffusion couples approach

Contribution types:

Highlight talks: 30 mins + 10 mins discussion

Talks: 20 mins + 10 mins discussion

Posters: large-format posters (portrait) are preferred

Monday, 22nd July

07:00	Breakfast and registration
09:00	Welcome address, M.Göken, FAU Erlangen
	Session Microstructure & Phase Stability
09:15	K.Ishida, Tohoku University, Japan
	<i>Recent Progress in Co-Base Superalloy -Phase Stability and Applications</i>
09:55	C.Zenk, FAU Erlangen, Germany
	<i>Microstructure and Mechanical Properties of Co-Al-W-Ti superalloys</i>
10:25	K.A.Christofidou, Cambridge University, UK
	<i>Microstructural stability in the Ni-Co-Al-Ti-Cr system</i>
10:55	Coffee break
	Session Wear & Oxidation Behaviour
11:15	Y.S.Sato, Tohoku University, Japan
	<i>Feasibility of cobalt-base superalloy for friction stir welding tool of high-softening-temperature materials</i>
11:45	H-Y.Yan, Imperial College London, UK
	<i>Effect of alloying elements on oxidation behavior of Co-Al-W base superalloys at high temperature</i>
12:15	L.Klein, FAU Erlangen, Germany
	<i>High temperature oxidation of poly & single crystalline γ/γ'-strengthened Co-Al-W-B based superalloys</i>
12:45	Lunch break
	Session Microstructure & Adv. Characterization
14:15	D.Dye, Imperial College London, UK
	<i>Quaternary Alloying Effects and the Prospects for a New Generation of Co-base Superalloys</i>
14:55	I.Povstugar, MPIE Düsseldorf, Germany
	<i>Elemental partitioning and lattice site occupancy in γ'-strengthened Co-based superalloys</i>
15:25	F.Pyczak, HZ Geestacht, Germany
	<i>The effect of tungsten content on microstructure and creep properties in L1₂-hardened Co-Al-W alloys</i>
15:55	T.Omori, Tohoku University, Japan
	<i>Phase Diagram and Alloy Design for Co-Al-W-Based Wrought Superalloy</i>
16:25	
	Poster session
17:30	
18:00	BBQ and social gathering

Tuesday, 23rd July

07:00	Breakfast
	Session Microstructure & Mech. Properties
09:00	S.Neumeier, FAU Erlangen, Germany
	<i>Influence of alloying elements on microstructure and mechanical properties of Co-base superalloys</i>
09:40	E.A.Lass, NIST, Gaithersburg, USA
	<i>Microstructural Evolution and Phase Equilibria in Ternary Co-W-Al Melt-Spun Ribbons</i>
10:10	H.Mughrabi, FAU Erlangen, Germany
	<i>The importance of γ/γ' lattice mismatch in γ'-hardened superalloys</i>
10:30	Coffee break
	Session TEM & Deformation Mechanisms
11:00	J.Müller, FAU Erlangen, Germany
	<i>Simultaneous strain and chemical mapping by CBED-EDXS of Co-based superalloys</i>
11:30	M.S.Titus, Univ. of California, Santa Barbara, USA
	<i>SX Tensile Creep Deformation Mechanisms in L1₂-containing Co-base Superalloys at High Temp.</i>
12:00	Y.Eggeler, Univ. of California, Santa Barbara, USA
	<i>Creep Deformation-induced APBs in L1₂-containing Single Crystal Cobalt Base Superalloys</i>
12:30	Lunch break
	Session Simulation, Modelling & Databases
14:00	S.G.Fries, ICAMS Bochum, Germany
	<i>Towards a true predictive model database for the thermo-physical properties of Co-based alloys</i>
14:40	Y.-W.Cui, IMDEA Materials Institute, Madrid, ES
	<i>Interdiffusion and Mobility of f.c.c Co-base Solid Solutions</i>
15:10	J.Koßmann, ICAMS Bochum, Germany
	<i>Stability of TCP phases in Co-based superalloys: Comparison of ab initio results with structure maps</i>
15:40	S.Gao, ICAMS Bochum, Germany
	<i>Study of creep behavior of cobalt-base superalloy single crystal by 3D discrete dislocation dynamics</i>
16:10	
16:30	
	Sightseeing Castle Weissenstein, Pommersfelden
18:00	
18:30	Conference dinner