

## Location:

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## Further information and registration:

Chair of General Materials Properties

Universität Erlangen-Nürnberg

Martensstraße 5

91058 Erlangen

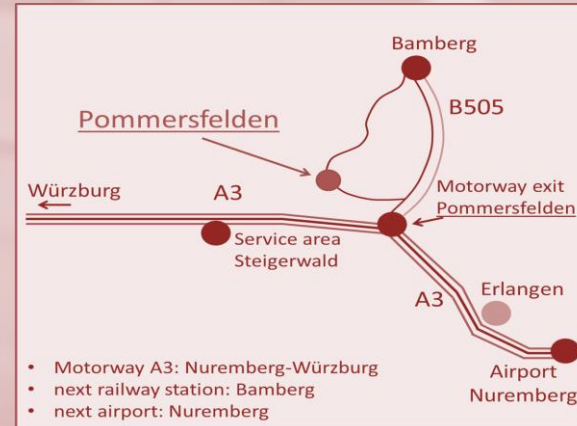
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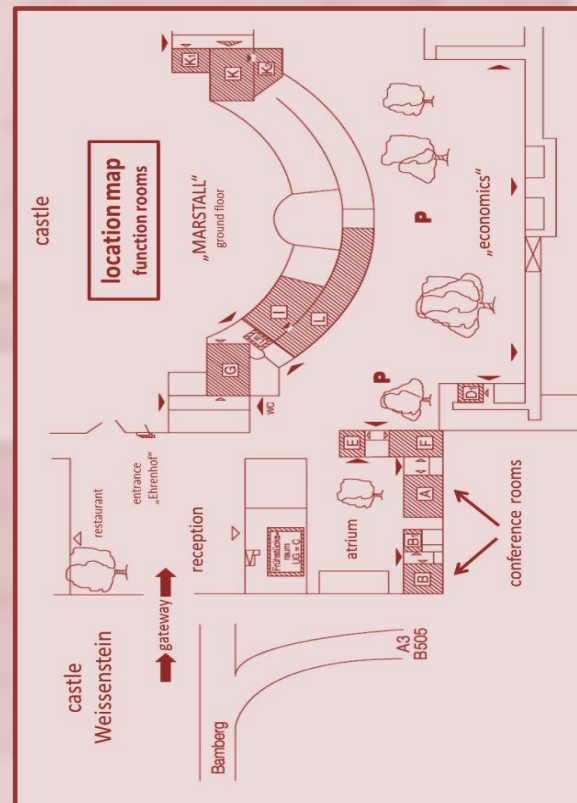
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## Directions:



## Site map:



Joint Summer School  
SFB/Transregio 103  
& Gradko 1229

July, 24<sup>th</sup> - 26<sup>th</sup>, 2013

Wednesday, 24 <sup>th</sup> July	
07:00	Breakfast and registration
	<b>Mechanical characterization</b>
08:45	<b>Welcome address, Prof. Göken</b>
	<b>Lectures</b>
09:00	<b>Gunther Eggeler (SFB)</b>
	<i>Creep of metallic materials - a mature research subject?</i>
09:45	<b>Mathias Göken (Gradko, SFB)</b>
	<i>Nanomechanical testing</i>
10:30	<b>Coffee break</b>
11:00	<b>Rainer Völkl (Gradko)</b>
	<i>Ultra high temperature creep testing and measuring high temperatures</i>
	<b>Project presentations</b>
11:45	<b>Carla Meid (SFB)</b>
	<i>High temperature fatigue of single crystal superalloys</i>
12:10	<b>Markus Krottenthaler (Gradko)</b>
	<i>Focused ion beam milling for localized stress measurement on NiAl bond coats</i>
12:35	<b>Lunch break</b>
13:45	<b>Svenja Kinzel (Gradko)</b>
	<i>Negative Creep of Ni-base superalloys</i>
14:10	<b>Michael Terock (Gradko)</b>
14:35	<i>Ni-Zr-Y with addition of Pt – Characterization of an in-situ produced catalyst</i>
14:45	<b>Hiking to beer garden (Brauhaus am Kreuzberg)</b>
18:00	<b>Dinner and social gathering at beer garden (Brauhaus am Kreuzberg)</b>
21:00	<b>Return to hotel by bus</b>

Thursday, 25 <sup>th</sup> July	
07:00	Breakfast
	<b>Mech. &amp; Microstr. characteriz./Hands on modelling</b>
	<b>Lectures</b>
09:00	<b>Erdmann Spiecker (Gradko, SFB)</b>
	<i>TEM - Large angle convergent beam electron diffraction (LACBED)</i>
09:45	<b>Jürgen Schreuer (SFB)</b>
	<i>Exploration of elastic properties of materials using resonant ultrasound spectroscopy (RUS)</i>
10:30	<b>Coffee break</b>
11:00	<b>Ivan Povstugar (SFB)</b>
	<i>Atom probe tomography: 3D elemental analysis at the atomic scale</i>
11:45	<b>Thomas Hammerschmidt (SFB)</b>
	<i>Ab-initio calculations - Basics and application in materials science</i>
12:30	<b>Lunch break</b>
	<b>Project presentations</b>
13:45	<b>Michael Fleck (Gradko)</b>
	<i>The influence of Re accumulation/depletion zones on rafting kinetics in multicomponent Ni-base superalloys: A Phase-field study</i>
14:10	<b>Kamil Matuszewski (Gradko)</b>
	<i>Long-term high-temperature phase stability of Ni-base superalloys containing Re and Ru</i>
14:35	<b>Alireza Basir Parsa (SFB)</b>
	<i>Stereo imaging using scanning transmission electron microscopy</i>
15:00	<b>Lisa Freund (Gradko)</b>
	<i>The effect of carbon on microstructure and partitioning behaviour of alloying elements in Co-base superalloys</i>
15:25	<b>Thomas Lorenz (Gradko)</b>
	<i>Diffusion brazing of Ni-base superalloys using Ge-containing brazes</i>
15:50	<b>Poster session (incl. coffee break)</b>
17:30	<b>Meeting Gradko-project leaders (16:00-16:45)</b>
18:00	<b>Dinner / BBQ</b>

Friday, 26 <sup>th</sup> July	
07:00	Breakfast
	<b>Composites, Coatings and Oxidation</b>
	<b>Project presentations</b>
09:00	<b>Martin Seifert (Gradko)</b>
	<i>Nb(C,N)/Nb5Si3 insitu ceramic composite</i>
09:25	<b>Peter Pontiller (Gradko)</b>
	<i>New Material Concept for Si3N4 Ceramics</i>
09:50	<b>Florian Reichert (Gradko)</b>
	<i>Manufacture of ceramic matrix composites with thermoplastic matrix precursors</i>
10:15	<b>Coffee break</b>
10:45	<b>Ralf Webler (Gradko)</b>
	<i>Micro Cantilever Bending Tests and Nanoindentation on NiAl Bond Coats and SX-NiAl</i>
11:10	<b>Ina Filbert (Gradko)</b>
	<i>Electrophoretic deposition of non-oxide particles on ceramic fibers</i>
11:35	<b>Kangjian Wu (Gradko)</b>
	<i>High temperature oxidation behavior of ZrO2-ZrSiO4/NiCr composites and its applicability for functionally graded materials</i>
12:00	<b>Martin Weiser (Gradko)</b>
	<i>High Temperature Oxidation of Co-base Superalloys - Initiation stages and elementary processes</i>
12:25	<b>Lunch break</b>
13:30	<b>End of Joint Summer School</b>