

UNIVERSITÄT
BAYREUTH



Metals and Alloys • University Bayreuth • D-95447 Bayreuth

Chair for Metals and Alloys
Prof. Dr.-Ing. Uwe Glatzel



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Priority Programme (Schwerpunktprogramm)
Compositionally Complex Alloys - High Entropy Alloys
(SPP CCA - HEA)

Yearly big meeting in Bayreuth, 11-13 July 2022
Conference Center "Maisel & Friends" at Liebesbier
Andreas-Maisel-Weg 1, 95445 Bayreuth, www.liebesbier.de

Monday, 11 July 2022

| Time | Event |
|--------------|---|
| Before 19:00 | Arrival in Bayreuth |
| 19:30 | Get-together with drinks and finger food at Liebesbier Brausaal and Terrasse |

*Conference venue in
Brausaal, Liebesbier:*



Tuesday, 12 July 2022

| Time | Event | |
|---------------|--|---|
| 08:30 – 09:00 | All participants Uwe Glatzel | Get-together, small talk Opening remarks starting at 08:50 |
| 09:00 – 09:30 | Easo George ORNL, USA | Spatial confinement effects of precipitates on TRIP, strength, and ductility of medium-entropy alloys |
| 09:30 - 10:00 | Sophie Drescher IFW Dresden | Strengthening of alloys based on Au-Cu-Ni-Pd-Pt |
| 10:00 - 10:30 | Tom Keil TU Darmstadt | Solute effects in high entropy alloys - Thermodynamic stability, microstructure and mechanical properties |
| 10:30 - 11:00 | Coffee break | |
| 11:00 - 11:30 | Laura Rosenkranz Univ. Bayreuth | Tensile properties of rare earth hexagonal close-packed high-, medium- and low-entropy alloys |
| 11:30 - 12:00 | Andrea Fantin HZB/TU Berlin | First results on the Al-Sc-Ti-Zr-Hf based hcp system by in-situ X-ray diffraction and X-ray absorption spectroscopy |
| 12:00 - 13:30 | Lunch | |
| 13:30 - 15:30 | Poster Session (list on page 5) and Coffee Break | |
| 15:30 - 17:00 | Visit of TAO Building, University of Bayreuth Metals and Alloys, Prof.-Rüdiger-Bormann-Str 1, 95447 Bayreuth car rides are provided | |
| 18:30 | Get-together at Glenk Garten Eichelweg 12, 95445 Bayreuth, www.glenkgarten.de | |

*TAO building
(technology alliance
Upper Franconia).
Moving in took place
in September 2019.*



Wednesday, 13 July 2022

| Time | Event | |
|---------------|---|--|
| 08:30 – 09:00 | All participants | Get-together, small talk |
| 09:00 – 09:30 | Mike Mills OSU, USA | Deformation Mechanisms Under Monotonic and Fatigue Conditions in FCC-based High Entropy Alloys |
| 09:30 - 10:00 | Anna Manzoni BAM Berlin | Early Material Damage in Equimolar CrMnFeCoNi in Mixed Oxidizing/Sulfiding Hot Gas Atmosphere |
| 10:00 - 10:30 | Werner Skrotzki TU Dresden | Low temperature deformation mechanisms of CrMnFeCoNi high-entropy alloy <100> single crystals |
| 10:30 - 11:00 | Coffee Break | |
| 11:00 - 11:30 | Shabnam Taheriniya Univ. Münster | In-depth study of nanocomposite HEA produced by high pressure torsion |
| 11:30 - 12:00 | Andreas Bezold FAU Erl.-Nürnb. | Deformation mechanisms in polycrystalline compositionally complex superalloys |
| 12:00 - 13:30 | Lunch | |
| 13:30 - 16:00 | Poster Session (list on page 5) and Coffee Break | |
| 16:00 | Uwe Glatzel Univ. Bayreuth | Closing remarks |

Recommended workshop hotel:

Liebesbier Urban Art Hotel

www.liebesbier.de/de/hotel/. Hotel and conference center are direct neighbors.

We have blocked a large number of rooms for our workshop until 12 June 2022.

*Please mention these buzz-words: **Tagung Uni Bayreuth Lehrstuhl Metallische Werkstoffe 12.- 13.07.2022.***

At the very end you will find a list of other hotels in Bayreuth with special offers for the university.



Poster Sessions: Tuesday 13:30-15:30 and Wednesday 13:30-16:00 at Liebesbier

| | |
|--|---|
| Ahmadreza Riyahi RU Bochum | Computational Aspects of Diffusion in HEAs |
| Christian Hinte Uni Hannover | Ni-Ti-related High Entropy Shape Memory Alloys - Hot-Extrusion and Mechanical Properties |
| Daniel Dickes Univ. Bayreuth | Thermal oxidation of rolled TiZrNbHfTa and its effect on surface hardness |
| Eric Jägler UniBW München | Synthesis & manufacturing of particle-reinforced HEA via L-PBF |
| Haihong Jiang | Deformation behavior of CoCrFeNi after pure compression |
| Esakkiraja Neelamegan Univ. Münster | Sc diffusion in HCP AlHfScTiZr high-entropy alloy: a tracer-interdiffusion study |
| Felix Oppermann RWTH Aachen | High throughput development of CCAs in the Fe-Mn-Co-Ni-Cr-Al-V-C system with high strength and ductility |
| Maik Rajkowski RU Bochum | Phase stability and precipitation kinetics in initially single-phase BCC TiZrNbHfTa high-entropy alloys |
| Manuel Köbrich FAU Erlangen | Unveiling the Origin of Segregation-assisted Hardening in CoCrNi-Alloys with Varying Mo Content Using Correlative TEM/APT Microscopy |
| Mehdi Noori RWTH Aachen | Thermodynamic Modeling for fcc-based MPEAs |
| Nuri Choi Univ. Münster | Non-equilibrium interfaces in 3D-printed CoCrFeMnNi high-entropy alloy: enhanced diffusion and unusual segregation |
| Olga Lukianova Univ. Münster | Self-diffusion in carbon-alloyed CoCrFeMnNi high entropy alloys |
| Oluwabi Oluwaseyi RU Bochum | High Entropy Shape Memory Alloys – Effect of Chemical Complexity on Microstructures, Martensitic Transformations and Atomic Mobilities |
| Sergey Kasatikov HZ Berlin | Discriminating the element contribution to the chemical and electronic structure of Al ₈ Co ₁₇ Cr ₁₇ Cu ₈ Fe ₁₇ Ni ₃₃ |
| Shankha Nag TU Darmstadt | Deformation behaviour of (CoCrFeMnNi) _x Ni _(1-x) series of HEAs |
| Stephan Laube KIT Karlsruhe | Development of refractory complex concentrated alloys for high-temperature applications |
| Steven Schellert Univ. Siegen | Investigation of the high temperature oxidation behavior in the alloy system Ta-Mo-Cr-Ti-Al |
| Xi Zhang Univ. Stuttgart | Ab initio simulations of diffusion in multi-principal element alloys |
| Yan Ma MPIE Düsseldorf | Interstitial doping in refractory high-entropy alloys |
| Yilun Gong MPIE Düsseldorf | Ab initio study of phase stability and interstitial alloying for bcc refractory high entropy alloys |
| Yujun Zhao RU Bochum | Investigation on the precipitation of TiZrNbHfTa BCC HEA by APT and TEM |

Workshop Fees, Hotel Charges, Non-Hybrid Meeting:

- Workshop attendance is without charges.
Monday and Tuesday evening, Tuesday and Wednesday lunch and coffee breaks will be covered by the coordination project of the SPP CCA – HEA.
- Hotel charges need to be covered by individual projects.
Hotel reservation must be carried out individually and hotel charges have to be covered by the individual attendees, for example with funding of their own projects. The recommended hotel for the workshop is the Urban Art Hotel. Other hotels are listed below.
- The workshop will take place face-to-face. There will be **no** streaming and **no** video capture of talks and discussions.

Sonderkonditionen der Universität Bayreuth für Übernachtungen in verschiedenen Bayreuther Hotels (außerhalb der Festspielzeit)

Lohmühle Hotel Restaurant

Badstr. 37

95444 Bayreuth

www.hotel-lohmuehle.de

EZ pro Nacht mit Frühstück (Standard/Komfort)

DZ zur Alleinnutzung mit Frühstück (Standard/Komfort)

DZ pro Nacht mit Frühstück (Standard/Komfort)

Tel. +49 921 530-60

info@hotel-lohmuehle.de

69 €/77 €

75 €/85 €

111 €/121 €

H4 Hotel Residenzschloss Bayreuth (ehem. Ramada)

Erlangerstr. 37
95445 Bayreuth
www.h-hotels.com/de/h4/hotels/h4-hotel-residenzschloss-bayreuth

EZ pro Nacht inkl. Frühstück (Komfort/Superior)

DZ pro Nacht inkl. Frühstück (Komfort/Superior)

Bei Buchung, Bezugnahme auf konkrete Veranstaltung sowie Ansprechpartner am Lehrstuhl erforderlich

Tel. +49 921 7585-0
bayreuth@h-hotels.com

79 €/99 €

88 €/108 €

ARVENA Kongress-Hotel

Eduard-Bayerlein-Str. 5 a
95445 Bayreuth
www.arvenakongress.de

EZ pro Nacht mit Frühstück

DZ pro Nacht mit Frühstück

Tel. +49 921 727-0
info@arvena.kongress.de

73 €

103 €

Hotel Bayerischer Hof

Bahnhofstr. 14
95444 Bayreuth
www.bayerischer-hof.de

EZ pro Nacht inkl. Frühstück (Standard/Deluxe)

DZ pro Nacht inkl. Frühstück zur Alleinnutzung

DZ pro Nacht mit Frühstück (Standard/Deluxe)

Tel. +49 921 7860-0
hotel@bayerischer-hof.de

72 €/90 €

78 € /89 €

107 €/118 €

Hotel Rheingold Bayreuth

Austr. 2
95445 Bayreuth
www.hotel-rheingold-bareuth.de

EZ pro Nacht mit Frühstück

DZ pro Nacht mit Frühstück

Tel. +49 921 990 085-0
booking@hotel-rheingold-bayreuth.de

65 €

85 €

Urban Art Hotel Liebesbier

Andreas-Maisel-Weg 1
95445 Bayreuth
<https://www.liebesbier.de/de/hotel/>

Preise siehe Homepage

Tel. +49 921 460 080 20
sleep@liebesbier.de

ibis Bayreuth (Nähe Bahnhof)

Bürgerreuther Str. 6
95444 Bayreuth
https://all.accor.com/hotel/B3F5/index.de.shtml?utm_campaign=seo+maps&utm_medium=seo+maps&utm_source=google+Maps

EZ pro Nacht inkl. Frühstück (Budget/Styles)

DZ pro Nacht inkl. Frühstück (Budget/Styles)

Tel. +49 921 800 700

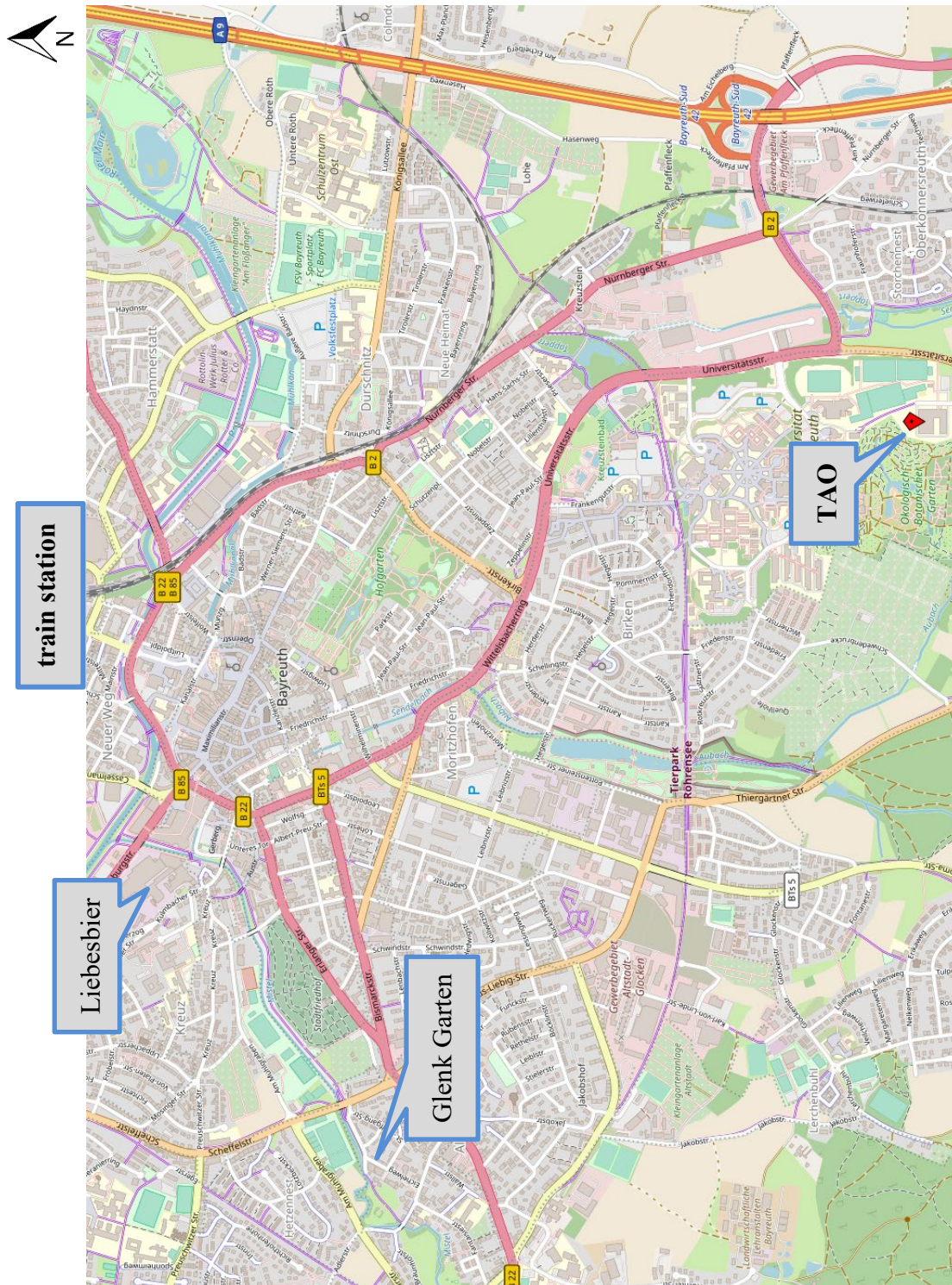
HB3F5@accor.com

HB3F6@accor.com

56 €/75,60 €

71 €/90,60 €





Liebesbier – Conference venue and hotel: Andreas-Maisel-Weg 1, 95445 Bayreuth, www.liebesbier.de, phone: +49 921 4600 8020

Glenk Garten – Beer garden: Eichelweg 12, 95445 Bayreuth, <http://www.glenkgarten.de>, phone: +49 920 1515 7316

TAO Building: Metals and Alloys, University of Bayreuth, Prof.-Rüdiger-Bormann-Str 1, 95447 Bayreuth, phone: +49 921 5566 00