

# „Karlsruher Werkstoffkolloquium“

## Winter Term 2023-24

### Online via Zoom.

The access data will be provided with the invitation to the respective lecture.

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|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Oct. 10, 2023</b><br>4 pm | <b>Prof. Dr. Mike Mills</b><br>The Ohio State University, Columbus,<br>OH, USA<br>Chair: Prof. Dr. C. Kirchlechner                        | <b>Local Phase Transformations: A New<br/>Creep Strengthening Mechanism in Ni-<br/>Base Superalloys</b>          |
| <b>Nov. 14, 2023</b><br>4 pm | <b>Prof. Dr. Pierre Antoine Bonnefont</b><br>INP de Grenoble - PHELMMA<br>Chair: Prof. Dr. U. Krewer                                      | <b>Cobalt iron oxide core-shell<br/>nanoparticles for electrocatalysis of the<br/>oxygen evolution reaction</b>  |
| <b>Jan. 9, 2024</b><br>4 pm  | <b>PD Dr. Andreas Borgschulte</b><br>Empa - Swiss Federal Laboratories for<br>Materials Science & Technology<br>Chair: Prof. Dr. A. Pundt | <b>Tailoring surface properties to enhance<br/>permeation in hydrogen selective<br/>membranes</b>                |
| <b>Jan. 16, 2024</b><br>4 pm | <b>Prof. Dr. Jennifer L.M. Rupp</b><br>Department of Chemistry, TU Munich<br>Chair: Prof. Dr. P. Gumbsch                                  | <b>t.b.a.</b>                                                                                                    |
| <b>Jan. 30, 2024</b><br>4 pm | <b>Prof. Dr. Jean-Charles Stinville</b><br>University of Illinois Urbana-<br>Champaign<br>Chair: Prof. Dr. M. Heilmaier                   | <b>On the Origins of Fatigue Strength in<br/>Metallic Materials; The Search for<br/>Fatigue-Resistant Alloys</b> |
| <b>Feb. 6, 2024</b><br>4 pm  | <b>Dr. Oleg N. Senkov</b><br>US Air Force Research Laboratory,<br>Wright-Patterson AFB, OH, USA<br>Chair: Prof. Dr. B. Gorr               | <b>Refractory complex concentration alloys<br/>for high-temperature structural<br/>applications</b>              |

05.10.2023. *Subject to changes*