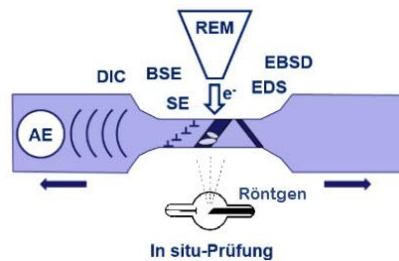


**Preliminary program of the
13th Meeting of the DGM Working Groups
“In situ 2D and 3D Characterization” and “Nanomechanics”
on September 21-22, 2026
at the Montanuniversität Leoben, Austria**



Montag, September 21

ab 09:30	Get together	
10:00	Opening	A. Weidner
10:05	Welcome address	D. Kiener
10:30	Stress-strain relationship of metals by indentation tests U.D. Hangen, J. Lukes	
11:00	Pinpointing the fatigue threshold: A systematic approach to the threshold intensity factor range H.L. Lichtenegger, M. Alfreider, D. Kiener	
11:30	Grain boundary segregation and micromechanics of W-alloy and W-bicrystal S. Chaganthi, M. Alfreider, D. Kiener	
12:00	A novel method to evaluate temperature-dependent deformation behavior via dynamic nanoindentation S. Zeiler, N. Kostwein, R. Schitzer, C. Mitterer, V. Maier-Kiener	
12:30	Advanced indentation pile up analysis: from scanning nanoindentation to automated feature extraction M. Wurmshuber, M. Glosemeyer, M.A. Sohail, M. Göken	

13:00	Lunch Break
14:00	Micromechanical characterization of FAST sintered MgO-Ti, MgO-C-Ti and MgO-316L composites using nanoindentation A. Compart, H. Biermann, A. Weidner
14:30	Key Challenges in Nanomechanical Characterization of Particles in Steel and its Perspectives N. Kleser
14:50	Hot Topic about Indentation: Challenges of SRJT Nanoindentation in Metallic Glasses V. Lemkova
15:10	VEDDAC Software News: Updates Supporting In-Situ Testing Workflow S. Vinke, B. Seiler
15:30	Coffee break
16:00	Cavitation mechanisms in natural rubber under hydrostatic tensile loading L. Zybell, R. Bernhardt, B. Seiler, E. Euchler, A. Weidner, S. Wießner
16:30	Acoustic emission on natural rubber A. Weidner, L. Zybell, R. Bernhardt
16:45	EBSD-based investigation of microstructural evolution under in situ tensile loading in biodegradable magnesium alloys M. Lukashova, S. Sowka, K. Yurtseven, F. Walther
17:15	In situ mechanical characterization of aluminum alloy produced by additive friction stir deposition T. Sedlaczek, F. Weber, M. Werz, C. Broeckmann
19:00	Dinner Arkadenhof

Tuesday, September 22

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|--------------|---|
| 9:30 | High-Frequency In-Situ Fatigue Testing with Heating in the SEM
K. Weiss |
| 9:50 | In situ investigation on hydrogen-induced deformation micro-mechanisms in commercially pure titanium
Shirish Chandrakar |
| 10:10 | Application of digital image correlation for characterization of early fatigue life stages of austenitic steel
Dalibor Pavelčík |
| 10:30 | Lab tour |
| 12:00 | Closing/Farewell
A. Weidner |

Meeting room

Seminarraum Materialphysik, 1st floor
Erich Schmid Institut
Lahnstraße 12, 8700 Leoben

Information for online participation via ZOOM

Topic: *In situ* 2D and 3D characterization

ZOOM link:

<https://dgm-de.zoom.us/j/82968288229?pwd=guG1a7qgjnSk9GGRCUVw6P0Z8W9QON.1>

Meeting-ID: 829 6828 8229

Code: 770404

Organization and Lead AG „In situ 2D and 3D characterization“

PD Dr.-Ing. habil. Anja Weidner

Group leader „Local deformation and damage mechanisms“

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