

**Workshop BAM – IFW
Dresden, 28.+29. März 2019**

Tentative program

All talks have introductory nature and are scheduled 15 min + 10 Min Discussion

Thursday, 28.03.2019

10:30 Welcome coffee
11:00 Introduction to IFW (B. Büchner)
11:15 Introduction to BAM (P. Portella)

1. Session: Corrosion (chair: Agudo)

11:30 Annett Gebert (IFW): Corrosion of functional and bio-materials
11:55 Özlem Özcan (BAM): In-situ imaging of corrosion
12:20 Karin Leistner (IFW): From corrosion to functionality: Magneto-Ionics

12:45 – 13:45 Lunch break

2. Session: Mechanical Properties & Structure analysis (chair: Hufenbach)

13:45 Leonardo Agudo (BAM): 3D microstructural characterization at TEM
14:10 Olga Shuleshova (IFW): Solidification processes
14:35 Jens Freudenberger (IFW): Metal forming
15:00 Mauro Madia (BAM): Fracture mechanics and fatigue

15:00 – 15:30 Coffee break

3. Session: Additive Manufacturing (chair: Zocca)

15:30 Uta Kühn (IFW): Novel alloys for additive manufacturing
15:55 Alexander Evans (BAM): Online monitoring of additive manufacturing processes
16:20 Brian Pauw (BAM): Nano polymer printing
16:45 Jens Günster (BAM): Additive manufacturing under low gravity conditions

19:00 Dinner

Friday, 29.03.2019

4. Session: Functional materials (chair: Özcan)

08:30 Sebastian Fähler (IFW): Magnetic functional materials
08:55 Maria Krautz (IFW): Magnetocaloric Materials
09:20 Anja Waske (BAM): Imaging of functional materials

5. Session: Biomaterials (chair: Gebert)

9:45 Julia Hufenbach (IFW): Bio-compatible alloys
10:10 Andrea Zocca (BAM): Bio ceramics
10:35 Mariana Medina-Sanchez (IFW): Biosensors

11:00 - 11:30 coffee and fruit break

6. Session: Analytical Sciences (chair: Fähler)

11:30 Axel Lubk (IFW): Advanced Methods of Electron Microscopy
11:55 Dan Hodoroaba (BAM): Surface analytical methods
12:20 Oded Sobol (BAM): Hydrogen in metals
12:45 Franziska Emmerling (BAM): Structure analytics and the BAMline

13:10 Planned joint research activities

13:30 Lunch and departure