

# GEMS Symposium

## Flash-Seminar Room in Building 28c at DESY



The German Engineering Materials Science Centre ([GEMS](#)) is the central user platform of Hereon for materials science investigations with synchrotron radiation and neutrons. With a clear focus on engineering science, GEMS is unique worldwide. The new GEMS offices and laboratories at the outstation at DESY are part of the recently opened Centre for X-ray and Nano Science (CXNS) building. In the new GEMS building, preparation, conduction and evaluation of experiments with synchrotron radiation at the GEMS beamlines at PETRA III (and complementarily with neutrons at MLZ) will now be even more closely interlinked.

On the afternoon of 16 June 2022, we will celebrate our move into our new home with a scientific symposium, to which we hereby cordially invite you.

Please register your participation via the registration form, if possible by Thursday, June 9, 2022. Thank you!

[Register here](#)

[GEMS Short Description](#)

[Route description](#)

### Programme

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- **10:30**  
Guided tour of the CXNS building & GEMS beamlines
- **12:00**  
Lunchtime snack
- **13:00**  
Greetings: Ministerialdirigent Engelbert Beyer, StS Dr. Oliver Grundei, Prof. Wolfgang Wall, Prof. Helmut Dosch, Prof. Matthias Rehahn
- **13:45**  
Introduction/Overview GEMS (Prof. Martin Müller)
- **14:15**  
Multiscale, multimodal characterization of magnesium implant biodegradation and osseointegration (Dr. Berit Zeller-Plumhoff, Hereon)
- **14:45**  
Engineering Materials Science with Synchrotron Radiation (Prof. Jozef Keckes, Montanuniversität Leoben)
- **15:15**  
Coffee break & (parallel) 30-minute VIP tour
- **16:15**  
Improving our fundamental understanding of novel superalloys by neutrons and synchrotron radiation (Dr.-Ing. Steffen Neumeier, FAU Erlangen)
- **16:45**  
Battery Research with Synchrotron X-ray Imaging (Dr. Ingo Manke, HZB)
- **17:15**  
GEMS: Outlook and Perspectives (Prof. Martin Müller)
- **17:30**  
End of the symposium at the buffet

[Print version of the programme \(367 KB\)](#)

### Contact

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