

4th International Symposium for Fatigue Design and Materials Defects

May 26-28, 2020 • Potsdam, Germany

FOLLOWING THE SUCCESSFUL SYMPOSIA in Trondheim in 2011, in Paris in 2014 and in Lecco in 2017, the Organizing Committee is announcing the 4th International Symposium on Fatigue Design and Material Defects. An exhibition will accompany the symposium.

Material defects such as non-metallic inclusions, pores, micro-shrinkages, etc., play a crucial role in fatigue crack initiation and propagation which in turn has significant consequences for structural integrity in terms of lifetime, fatigue strength and other characteristics of cyclically loaded components.

The main objectives of the symposium are to improve the understanding of the mechanisms and the impact of defects on structural integrity, and to work out measures to improve the fatigue properties of materials and components.

Paper Topics

- Defects and manufacturing processes
- Defect detection and monitoring
- Statistical considerations
- Defects and fatigue strength
- Short fatigue crack propagation starting at defects
- Critical defect sizes
- Defects as root causes of structural failure
- Modelling fatigue life and strength taking into account defects

Materials of Particular Interest

- High-strength steels
- Cast aluminium alloys
- Nodular cast iron
- Sinter materials
- Weldments
- Materials generated by Additive Manufacturing

General Information

- Location: Kongresshotel Potsdam
- Conference Office Email Address: dmd@inventum.de
- Conference Language: English
- Chaired by Prof. Dr. Uwe Zerbst, Dr. Mauro Madia and Larissa Mara Batista Duarte. All three are with the Federal Institute for Materials Research and Testing (Germany)

Visit <https://fdmd2020.inventum.de/home> to register, sign up to exhibit, advertise in symposium materials, or sponsor the event. ●



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