



INVENTUM GmbH
Marie-Curie-Straße 11-17
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August 2019

PRESS RELEASE

Sankt Augustin, August 2019 – Fatigue Design and Materials Defects 2020 Announcement

**4th International Symposium on Fatigue Design and Materials Defects 2020,
26-28 May 2020, Potsdam, Germany**

Following the successful symposia of Trondheim in 2011, in Paris in 2014 and in Lecco in 2017 we wish to announce the 4th International Symposium on Fatigue Design and Material Defects from May 26 – 28 2020 in Potsdam.

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.

To that purpose presentations are welcome which address the following 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

All materials are concerned, particularly:

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

The organizers look forward receiving many contributions to the 4th International Symposium on Fatigue Design and Materials Defects 2020. In particular young scientists are very welcome to actively contribute to the conference by submitting an abstract.

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The symposium will be chaired by Prof. Dr. Uwe Zerbst and Dr. Mauro Madia, Bundesanstalt für Materialforschung und -prüfung, Berlin (Germany)

We are looking forward seeing you in Potsdam.

Homepage:

https://fdmd2020.inventum.de/home/?pk_campaign=Portal2

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About the INVENTUM GmbH

As a competent partner for event organisation we are at your side for the planning and realisation of conferences, congresses and further education, so that you as the organiser can fully concentrate on the technical content and leave the actual organisation of your congress or your conference to us. INVENTUM GmbH is a 100 percent subsidiary of the German Society for Materials Science. www.dgm.de.

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