FIRST ANNOUNCEMENT
CALL FOR PAPERS

7th European-American Workshop on Reliability of NDE

September 4 – 8, 2017, Potsdam, Germany
www.nde-reliability.de
We cordially invite all NDE practitioners, scientists and early-career colleagues — active or interested in the field of NDE reliability — to attend the 7th European-American Workshop on Reliability of NDE (7th EAW). Although called “European-American”, the Workshop has drawn substantial international attention over the years and the interest spans over several continents — a tradition we wish to keep and pursue.

The aim of this Workshop is to acquire a deeper understanding of factors influencing NDE reliability and of their interplay in NDE practice. Furthermore, we wish to open a dialogue about reliability between scientists and practitioners in order to advance the field as a whole. The topic in focus is the discussion of interconnections and dependencies between different influencing factors. Thereby, we aim to:

• Understand how the influencing factors are interconnected and how this knowledge can be used to increase the NDE reliability in practice
• Discuss the role of POD in relation to fracture mechanics for the entire component safety and integrity assessment and associated risks
• Develop approaches for:
  - the reliability assessment of structural health monitoring
  - the capability of NDT to size defects
• Address new challenges associated with composites and strongly scattering media
• Develop POD modelling approaches, with the special focus on how human factors can be taken into account
• Explore new application domains, such as the railway
• Deepen the understanding of the human and organizational factors affecting NDE reliability
• Develop strategies for:
  - transferring human factors knowledge into practice
  - promoting the positive side of human factors
• Identify the responsible parties and activate them to take reliability and human factors as their priority

The Workshop will be organized as follows:

**NDE reliability tutorial for practitioners**

**September 4 – 5, 2017 (duration 1.5 days)**

This tutorial offers a wide range of reliability topics and is intended not only for colleagues, who are not yet familiar with reliability as a topic, but also for regulators, service providers, end-users, and scientists, who encounter reliability-related problems in their daily practice and wish to obtain skills that will serve as a starting point in overcoming those problems. The tutorial will be divided into three parts:

a) Human and organizational influences on NDE reliability
b) Basic principles of the probability of detection (POD) and the problem of real defects
c) Advanced principles of POD: Multi-parameter POD for industrial systems

**Workshop Program**

**September 5 – 8, 2017**

**Oral and poster presentations**

**(duration 2.5 days)**

The program aims to provide a wealth of sessions with rich technical content. As in the previous years, the presentations will be dedicated to industrial demands, scientific progress in the evaluation of the reliability of NDE, and to human and organizational factors.

**“Open space technology” discussion on reliability of NDE**

**(duration 0.5 days)**

This not-to-be-missed discussion is an absolute highlight of the workshop. It provides a platform for all involved to discuss relevant topics and unresolved issues together with their colleagues and experts from various fields and will help determine the direction future reliability efforts should take. Instead of having a structured panel discussion with pre-defined topics, this discussion — held in the format of “open space technology, OST” — allows for relevant topics to be raised in the room and discussed by those interested in them for as long as the topics interest them. The results of the individual topical discussions are presented to all the participants and summarized in a paper publication.

**Sponsors**

The Organizing Committee invites partners from industries to participate actively in this international event through sponsorship. Basically, every sponsor will be acknowledged by publishing the name and logo

- in all publications printed with respect to this workshop
- on the workshop web site
- on sponsor poster in the registration area.

For further information please see www.nde-reliability.de.