

NDE methods and techniques serving structural integrity assessment

*Thematic Symposium within the 3rd International Conference on Structural Integrity
Madeira, Portugal, September 2-5, 2019*

Aim of the Thematic Symposium is to bring together specialists in non-destructive examination, non-destructive evaluation, fracture mechanics, fatigue, materials science, safety / risk and reliability analyses to discuss latest developments, best practices and trends in structural integrity assessment and operating life estimation with special focus on role and importance of NDE methods and techniques.

Topics of the Thematic Symposium include, but not limited to, the following:

- State-of-the-art of NDE methods and techniques;
- NDE reliability;
- Capability demonstration of NDE systems;
- Probability of detection – measurement, simulation;
- Applicability of various NDE methods and techniques;
- Non-linear signal processing;
- NDE and Industry 4.0;
- Tailoring NDE to detect specific degradation processes;
- Material characterization by NDE methods;
- Early warning of materials degradation;
- Fracture mechanics requirements in relation to NDE;
- NDE modelling and simulation.

Organizers (list will be extended):

Peter Trampus
Chairman, ESIS Technical Committee17

Paulo Tavares
Chairman, ICSI 2019