

GENERAL INFORMATION

Venue

Bundesanstalt für Materialforschung und -prüfung (BAM)
Federal Institute for Materials Research and Testing
Unter den Eichen 87, 12205 Berlin, Germany
Building 5, Room: Ludwig Erhard

Organization

German Society for Non-Destructive Testing (DGZfP e.V.)
Steffi Schäske
Max-Planck-Straße 6, 12489 Berlin, Germany
Phone: +49 30 67807-120, Fax: +49 30 67807-129
E-mail: tagungen@dgzfp.de
Website: www.nde-reliability.de

Hotels

We have special conditions in the following hotels:

Ravenna Hotel
Best Western Queens Hotel Best City West
Seminaris Campushotel Berlin

Please use the hotel reservation form on the website.
More hotels close to the conference venue you can find here: http://www.bam.de/en/ueber_uns/wege/hotels.htm
Please bear in mind that the hotel bill must be settled with the hotel.

Conference Language

All technical papers will be presented in English, simultaneous translation will not be provided.

Conference Materials

Proceedings

The proceedings will be published as CD-ROM and will be available after the conference.
The manuscripts (in English) must be received by DGZfP as an electronic file by 30th June 2009 the latest. Guidelines for preparing the manuscripts will be sent to the authors and also be published at www.nde-reliability.de

Abstracts

At the conference, participants will get a booklet with all abstracts of the programme contributions.

GENERAL INFORMATION

Call for Papers

Please send your paper submission and the abstract (about 1 page, max. 2500 characters) to tagungen@dgzfp.de using the electronic submission form at www.nde-reliability.de by 10th December 2008 the latest.

English being the conference language, the contributions must be submitted in English.

Authors may register more than one paper. They will be informed about the acceptance of their contributions in January 2009.

Authors, whose paper was accepted must send their registration form and pay the registration fee by 28th February 2009.

Manuscripts

Guidelines for preparing and submitting manuscripts are published on the conference website.
Deadline: 30th June 2009

Programme Committee

Gerd Ahlers	E.ON, Hannover, Germany
Philippe Benoist	CEA/LIST, Gif sur Yvette, France
Anton Erhard	Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Uwe Ewert	Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Babette Fahlbruch	TÜV NORD, Hamburg, Germany
Jay Fisher	Southwest Research Institute, St. Antonio, USA
Heinrich Heidt	Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Marc Kreutzbruck	Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Christina Müller	Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
Ulf Schnars	Airbus Deutschland, Bremen, Germany
Detlef Schombach	TÜV NORD, Hamburg, Germany
Greg Selby	EPRI, Charlotte, USA
Jörg Völker	DGZfP and Siemens, Berlin, Germany
John Whittle	John Whittle & Associates, Cheshire, United Kingdom

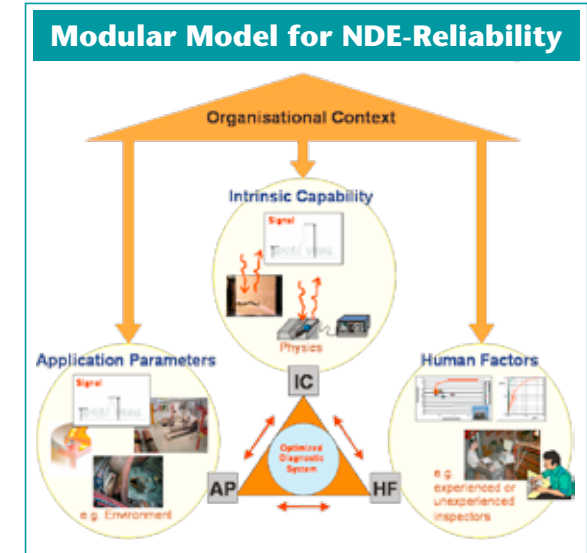


DEUTSCHE
GESELLSCHAFT FÜR
ZERSTÖRUNGSFREIE
PRÜFUNG E.V.



FIRST ANNOUNCEMENT AND CALL FOR PAPERS

4th European-American Workshop on Reliability of NDE



June 24-26, 2009, Berlin, Germany

PREFACE

Increasing demands in safety requirements in our daily economic life and infrastructure requires the development of appropriate risk management and life prediction tools. Non-Destructive Evaluation techniques are vital to provide substantial information of materials, components, and systems. This information is most useful for management and life prediction functions when enhancing the NDE process reliability through validation procedures. Since the last meetings the achievements of our practical work show, that the examination of NDE process reliability has to be adapted to the degree of safety demand corresponding to the industrial application field. As a result nuclear power and aerospace are dealing with much higher demands than conventional industries like water tube production. Additionally, the determination of the system reliability in relation to system parameters should be considered as an optimization process rather than a final finding.

New ideas and systematic approaches were emerging for diverse applications of NDE technology in humanitarian demining, transportation and access/identity security. Currently, a new challenge is also the evaluation of the quality of Structural Health Monitoring (SHM). Different approaches to reliability and process value analysis, such as the 6 Sigma initiative, the ENIQ-approach and the PD-initiative, have lead to a growing demand of a clear understanding of definitions and possible methods for validation. Especially an ever increasing array of applications in our daily industrial work calls for this adequate clarification and interpretation of approaches.

The modular reliability model helps to understand the sources and effects of different influencing factors. One of the highest influences arises from Human Factor, which deserves in its turn a systematic scientific psychological treatment. A deeper insight into the psychological influences of the human factor will relieve the choice of an adapted testing procedure, which then also can lead to improved working condition of the individuals involved.



Dipl.-Ing. Jörg Völker
DGZfP



Dr. rer. nat. Christina Müller
BAM

OBJECTIVES AND WORKSHOP STRUCTURE

First day

The first day will focus on new scientific insights to make the methods for the measurement of reliability and validation more efficient like:

- Design of Experiments
- Multi Parameter POD (extended a)
- Data Field POD (extended â)
- Receiver Operating Characteristics for specified conditions
- Minimum effort approaches
- Modelling MAPOD
- Systematic Psychological Approach to Human Factor

Second Day

Specific demands and solutions for specific industrial applications

- Aerospace and other Transportation
- Automotive
- Nuclear Power: Performance Demonstration/ENIQ
- Chemical
- Certification in NDE societies
- Characterization of the performance of structural health monitoring systems

Third Day

Integrating NDE results in overall Risk Analysis and Life Time Conceptions

Workshop Conclusions

Each day specific break-out-sessions are foreseen which will be summarized at the last day in the workshop conclusions.

- The overall question to be answered might be: What is influencing the performance of NDE and how can we measure and optimize what we want to know with minimum effort?
- Paradigm Shift: In the past the POD and ROC-Methods were applied for a final judgement of the NDE-systems. Now, with the experience of ENIQ and other complex industrial application scenarios the multi parameter POD shall be applied as an optimization tool where a certain parameter setting is assigned to a certain reliability.
- The human factor influences need to be treated systematically with the tools of psychology not only for the individual inspectors but also for the organizational context and environmental factor.

FEES & PARTICIPATION

All fees will be charged in Euro.

Persons who have not paid their registration fee the access will not be permitted.

Registration fees

Non-Members	440 €
Members of organizing Institutes	390 €
Invited Authors	190 €
Students	75 €
Additional CD (proceedings)	35 €

The fee includes the conference attendance, morning and afternoon refreshments, lunch, proceedings on CD-ROM, the participation in the conference evening and ticket for public transport.

Deadlines

Deadline for Registration of papers	10 th December 2008
Acceptance of papers	January 2009
Deadline for authors' registration and payment	28 th February 2009
Programme available	March 2009
Submission of manuscripts	30 th June 2009