



DEUTSCHE
GESELLSCHAFT FÜR
ZERSTÖRUNGSFREIE
PRÜFUNG e.V.

First Announcement and Call for Abstracts

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EWSHM 2024 | 10 – 13 June 2024 in Potsdam, Germany

11th European Workshop on Structural Health Monitoring

Background

Structural Health Monitoring (SHM) is the science and application of sensing and actuation features to become an integral part of engineering structures and to allow structures' life cycle performance to be seen from a holistic point of view. Within this, diagnostics and prognostics are therefore key elements. The objective of SHM is to allow engineers to holistically manage the operation of engineering structures through the structures' life cycle, leading to new breakthroughs in structural engineering.

The European Workshop on Structural Health Monitoring (EWSHM) dates back to the year 2000, where a first event was held in Madrid/Spain organized by Prof. Alfredo Güemes. EWSHM has been held every time in a different city throughout Europe, the last successfully held in Palermo/Italy in 2022.

Although named a 'workshop', EWSHM has so far very much been run like a conference. Over the years the number of exhibitors at EWSHM has gradually increased as well as the demonstration of potential applications. EWSHM 2024 will therefore further move along this track in a way, that the different major demonstrators are intended to be made available at EWSHM 2024, where SHM related technologies ready for application will be additionally presented and discussed along the different sessions within the workshop.

Scope

- GENERAL:
- Exchange latest achievements in SHM and related fields
 - Get SHM technology demonstrated
 - Incubate initiatives for future SHM developments and deployments
 - Compliance to past, present and future SHM events (APWSHM; EWSHM, IWSHM, SHMII etc.)
- SPECIFIC:
- Fundamental research in terms of monitoring (visual, mechanical, acoustic, elec-tromagnetic, thermal, etc.), sensors/transducers, signal processing (feature extraction, machine learning) and its transition into application
 - Numerical simulation (loads, stress, strain, fatigue, fracture, vibrations, NDT & E, micromechanical systems, etc.) and digital twins within the scope of SHM
 - Demonstration of SHM applicability in view of the lateral integration of technologies to be involved
 - Structural monitoring in industries such as aerospace, automotive, railway, naval, energy, manufacturing, and civil engineering
 - Reflect on SHM applications with regard to available engineering ideas and technologies
 - Prognostics and structures' life cycle health management within the wider scope of SHM
 - The role of SHM in the society.

Submit your abstract until 1 October 2023 and become a part of the programme.

You can choose between oral presentation (20 minutes incl. discussion) and poster presentation.

Submission guidelines please find on the conference website:

www.ewshm2024.com



DEADLINES	Submission of abstracts	1 October 2023
	Notification of abstract acceptance	1 December 2023
	Registration and payment of presenting authors	15 January 2024
	Submission of full papers	15 February 2024

PLANNED PROGRAMME

- Plenary sessions
- Parallel sessions
- Poster session
- Technology exhibition
- Technology demonstrators
- Pre and post workshop seminars

SOCIAL PROGRAMME

June 10, 2024	Reception and poster session
June 11, 2024	Technology demonstration afternoon, Banquet
June 12, 2024	Social tour
June 13, 2024	Closing

Visit to technology and demonstration sites

FEES	Regular early bird and authors	950,00 €
	Regular	1.150,00 €
	One-day registration	500,00 €
	Students	500,00 €

ORGANISATION

Conference Secretariat
 Steffi Dehlau | German Society for Nondestructive Testing (DGZfP)
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ORGANISING COMMITTEE

- C. Boller, Saarland University
- M. Buderath, Airbus
- S. Dehlau, DGZfP
- E. Niederleithinger, BAM
- J. Prager, BAM
- P. Wierach, DLR

EXHIBITION

A vendor exhibition will be run to complement the technical presentations. Take the chance to present your company, products and services to the professional audience.

Exhibition area: 2 x 3 m Price: 2800 € plus VAT

If you are interested please contact tagungen@dgzfp.de

CONFERENCE VENUE

Hotel Dorint Sanssouci Berlin/Potsdam
 Jägerallee 20 | 14469 Potsdam, Germany | <https://hotel-potsdam.dorint.com>

[More details and updates available at the conference website](#)

Potsdam, the capital of Brandenburg Federal State in the southwest next to Berlin, is characterised by a 1000-year-old history as a royal capital. Potsdam is a city of UNESCO World Heritage, a city of parks and palaces on the idyllic lakes of the Havel. Best example is the impressive palace ground of Sanssouci. Moreover, Potsdam is a city of culture, education and science and famous for the Babelsberg Filmpark, where Hollywood stars abound. The city combines world heritage, enriching sources of knowledge and royal tolerance.



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