

INTERNATIONAL SCIENTIFIC COMMITTEE

- G. Akhras, Royal Military College, Canada
- D. Balageas, ONERA, France
- M. Bannister, CRC-ACS, Australia
- C. Boller, Saarland University, Germany
- M. Buderath, EADS, Germany
- H. Budelmann, University of Braunschweig, Germany
- F. Casciati, University of Pavia, Italy
- P. Cawley, Imperial College, UK
- F.-K. Chang, Stanford University, USA
- A. Cusano, University of Sannio, Italy
- S. D. Fassois, University of Patras, Greece
- P. Ferdinand, CEA, France
- C.-P. Fritzen, University of Siegen, Germany
- M. Giordano, University of Naples, Italy
- V. Giurgiutiu, University of South Carolina, USA
- A. Güemes, UPM, Spain
- W. Habel, BAM Berlin, Germany
- J. Holnicki-Szulc, IFTR Warsaw, Poland
- D. Inaudi, SMARTEC, Switzerland
- G. Kawiecki, Boeing Research & Technology Europe, Spain
- J. Kullaa, Helsinki Metropolia University of Applied Sciences, Finland
- T. Kundu, University of Arizona, USA
- V. Le Cam, LCPC, France
- L. Lecce, University of Napoli, Italy
- N. Maia, Technical University of Lisbon, Portugal
- A. Mita, Keio University, Japan
- Y.Q. Ni, Hong Kong Polytechnic University, China
- W. Ostachowicz, Polish Academy of Sciences, Poland
- C. Paget, Airbus Operations, UK
- C. Papadimitriou, University of Thessaly, Greece
- U. Peil, Technical University Braunschweig, Germany
- S.G. Pierce University of Strathclyde, UK
- J. Rodellar, Technical University of Catalonia, Spain
- M. Růžička, Technical University Prague, Czech Republic
- M. Salvia, Ecole Centrale Lyon, France
- D. Saravanos, University of Patras, Greece
- D. Stargel, US Air Force, Columbia, USA
- W.J. Staszewski, Sheffield University, UK
- T. Stepinski, Uppsala University, Sweden
- Z. Su, Hong Kong Polytechnic University, China
- N. Takeda, University of Tokyo, Japan
- M. Tur, Tel-Aviv University, Israel
- T. Uhl, University of Science and Technology Krakow, Poland

REGISTRATION

until June 22, 2012 please send to German Society for Non-Destructive Testing (DGZfP e.V.)
Max-Planck-Str. 6, 12489 Berlin, Germany, Phone: +49 30 67807-121/122/123,
Fax: +49 30 67807-129, E-mail: tagungen@dgzfp.de, www.ewshm2012.com

FEES AND CANCELLATION

Fees

Participant	650.00 €
Student	375.00 €
for joint conference (EWSHM and PHM Conference)	975.00 €

The registration fees include admission to all sessions, social programme, coffee breaks, lunch, public transport and conference materials.

Cancellation

by April 29, 2012 (receipt at DGZfP): 25,00 €
by June 25, 2012: 50% of the participation fee
from June 26, 2012: no refund possible.

LOCAL ORGANISATION

Conference Secretariat

Ms. Steffi Schäske | German Society for Nondestructive Testing (DGZfP)
Max-Planck-Str. 6 | 12489 Berlin | Germany
Phone: +49 30 67807-120 | Fax: +49 30 67807-129 | E-mail: tagungen@dgzfp.de

Local Programme Organiser

Prof. Dr.-Ing. Christian Boller | Fraunhofer IZFP | Campus E 3.1
66123 Saarbrücken | Germany | Phone: +49 681 9302-3800
Fax: +49 681 9302-113800 | E-mail: christian.boller@izfp.fraunhofer.de

Conference Venue

MARITIM Hotel & International Congress Center Dresden
Devrientstr. 10-12 | 01067 Dresden | Germany
www.dresden-congresscenter.de

Hotel

We have special conditions in the MARITIM Hotel & International Congress Center Dresden, art'otel Dresden and InterCityHotel Dresden. Reservations can be made by May 21, 2012 (booking code: EWSHM). The hotel reservation forms are published on the conference website. Other hotels can be booked at www.dresden.de/dtg.

LOCAL ORGANISING COMMITTEE

- C. Boller, Fraunhofer IZFP, Saarbrücken, Germany
- U. Fiedler, Fraunhofer IZFP, Dresden, Germany
- B. Köhler, Fraunhofer IZFP, Dresden, Germany
- N. Meyendorf, Fraunhofer IZFP, Dresden, Germany
- M. Reich, Fraunhofer IZFP, Dresden, Germany
- J. Schreiber, Fraunhofer IZFP, Dresden, Germany
- E. Zschech, Fraunhofer IZFP, Dresden, Germany
- W. Hufenbach, ILK, TU Dresden, Germany
- K. Dittes, MFD, Dresden, Germany
- L. Schultz, Leibniz IFW, Dresden, Germany
- W. Hanel, IMA, Dresden, Germany
- F. Eichelbaum, IABG, Dresden, Germany
- M. Purschke, DGZfP, Berlin, Germany
- S. Schäske, DGZfP, Berlin, Germany

WELCOME TO DRESDEN

Dresden also named »Florence on the Elbe river« is one of the most beautiful cities in Germany located in the East of Germany around 100 km from the Polish border. It is the capital of the federal state of Saxony and world famous for its art would it be architecture, craftsmanship, paintings or music. Dresden is also famous for advanced technology, represented by a large number of research facilities (among those 11 Fraunhofer establishments) and a strong technical university. It is surrounded by a variety of industries including electronics, automotive and aviation. Dresden has hence become a major spot for science and tourism.



Shopping

In recent years, Dresden has developed into a real shopping mecca. The shopping mall begins right at the central train station and leads to the Neustadt Quarter without any interruptions. Large shopping centers like the Centrum Gallery and the Altmarkt Gallery, along with various boutiques, offer an interesting mixture of stores.



Local Transport

Whether by suburban railway, bus and tram, Elbe ferry or cable car: practically every destination within the city can be reached by public transport conveniently, quickly and inexpensively. Those who want to explore Dresden and its charming surroundings at a more leisurely pace can turn to a number of narrow-gauge railways or to the Elbe paddle steamers of the Saxon Steamship Company.



Sightseeing

The Church of Our Lady (Frauenkirche), Royal Palace, Zwinger, Semper Opera House, Elbe castles, Villa Quarter, Hellerau garden city or the award-winning modern buildings – not forgetting the 'Blue Wonder' bridge to the east of the city centre. It seems the likes of Augustus the Strong and his successors were not prepared to wait for nature to finish the job; with their skill, artistry and determination, they filled the Grüne Gewölbe (Green Vault) and Türkische Cammer (Turkish Chamber) with treasures from all over the world, collected paintings and porcelain, and were patrons of the great composers. No wonder then that Dresden today ranks as a world-class city of art and culture.

SPONSORS

The Organising Committee invites partners from industry to actively participate in this European event through sponsorship.

Sponsors will be named

- in all publications printed with respect to the 6th EWSHM
- on the webpage
- as sponsor on sponsor poster in the registration area and exhibition

Main Sponsors are sought to host Poster Session and Technology Show, coffee breaks, lunches, Grand Banquet, Social boat trip and the proceedings. All main sponsors will be highlighted on all future announcements, programmes and the specific event.

If you are interested in becoming a sponsor please contact the conference secretariat.



GERMAN
SOCIETY FOR
NON-DESTRUCTIVE
TESTING

Fraunhofer
IZFP

CALL FOR PAPERS & INVITATION OF EXHIBITION

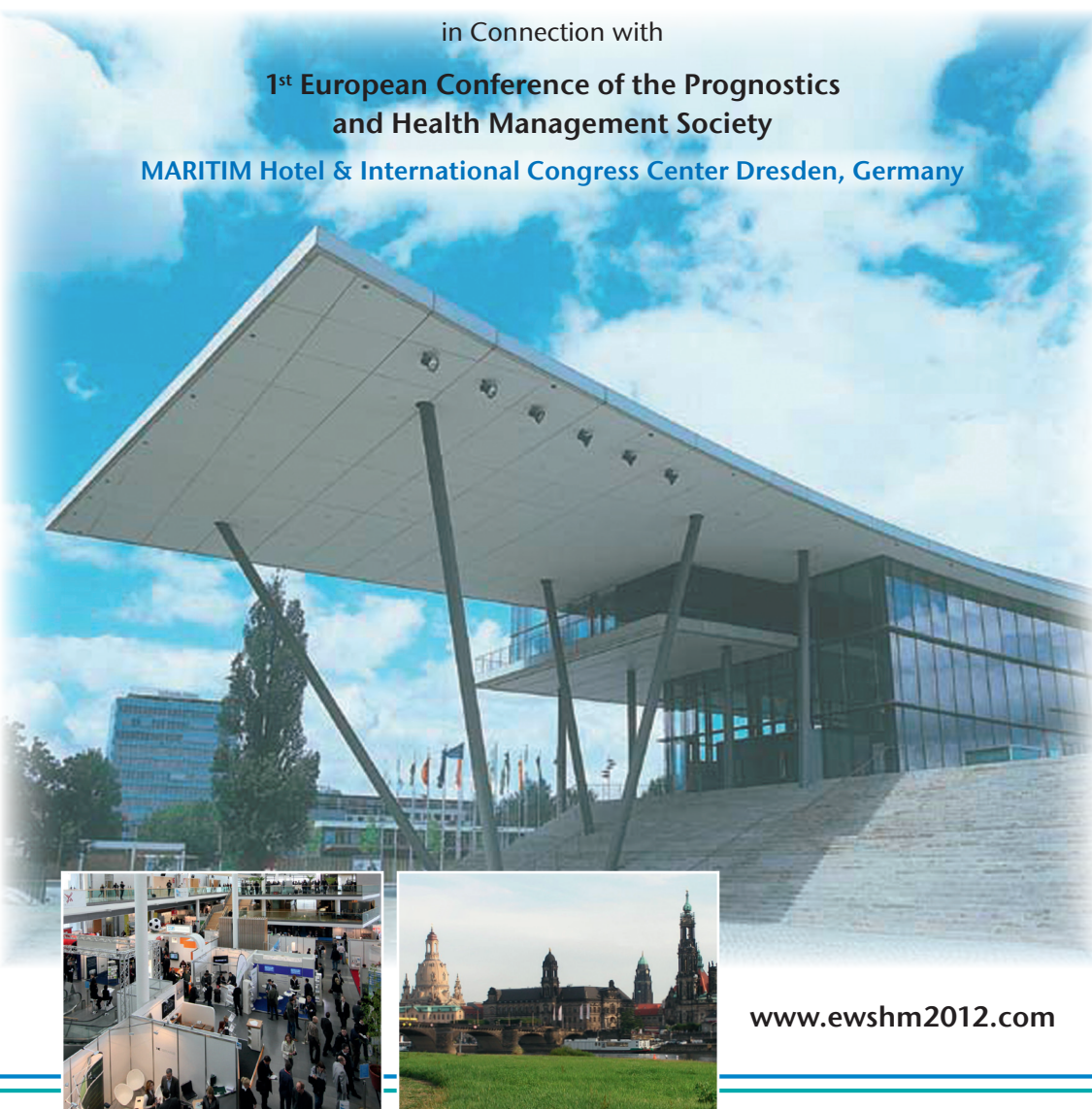
6th European Workshop on Structural Health Monitoring

July 3 – 6, 2012

in Connection with

**1st European Conference of the Prognostics
and Health Management Society**

MARITIM Hotel & International Congress Center Dresden, Germany



www.ewshm2012.com

PREFACE

Structural Health Monitoring (SHM) is an emerging technology, dealing with the development and implementation of techniques and systems where monitoring, inspection and damage detection become an integral part of structures and thus a matter of automation. It further merges with a variety of techniques related to diagnostics and prognostics.

SHM emerged from the field of smart structures and laterally encompasses disciplines such as structural dynamics, materials and structures, fatigue and fracture, non-destructive testing and evaluation, sensors and actuators, microelectronics, signal processing and much more. To be effective in the development of SHM systems, a multidisciplinary approach is therefore required. Without this global view it will be difficult for engineers to holistically manage the operation of an engineering structure through its life cycle in the future and to generate new breakthroughs in structural engineering.

The European Workshop on Structural Health Monitoring (EWSHM) was first successfully run in 2002 in Cachan near Paris/France, followed by events held in Munich/Germany (2004), Granada/Spain (2006), Krakow/Poland (2008) and Sorrento/Italy (2010). It has grown over the years significantly and has become the strong counterpart to the International Workshop on SHM (IWSHM) held in Stanford/CA every odd year.

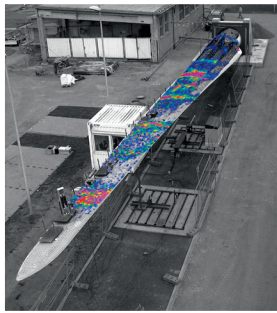
In 2012 EWSHM will be merged a very first time with the 1st European Conference of the Prognostics and Health Management (PHM) Society. Prognostics and Health Management (PHM) has become an increasingly important subject, specifically within the context of getting SHM into application. This is the Society's first conference in Europe and the first held jointly with SHM. The Conference will bring together the global community of PHM experts from industry, academia, and government in diverse application areas such as energy, aerospace, transportation, automotive, and industrial automation. The conference will feature tutorials, a panel session, technical papers and a joint session with SHM.

Bringing SHM and PHM therefore next to each other along two conferences held with a significant overlap will provide the two communities with some new dimensions hopefully bringing added value to both of them.

SCOPE

EWSHM addresses a fairly wide field in science including subjects such as:

- ➔ Physical monitoring principles in general (visual, mechanical, acoustic, electrical, thermal, etc.)
- ➔ Signal processing (FFT, wavelet, PCA, feature extraction, pattern recognition, etc.)
- ➔ Structural simulation (stress & strain, modal, acoustics, electromagnetics, thermal, neural networks, etc.)
- ➔ Sensors and sensor systems (piezoelectric, fibre optic, electromagnetic, MEMS, nano agents, etc.)
- ➔ Principles of SHM-based structural monitoring, design, and maintenance
- ➔ SHM applications (aerospace, marine, railway, automotive, pipelines, civil engineering, energy generation and distribution, production, etc.)



SUBMISSION GUIDELINES

Experts and scientists are invited to submit abstracts in accordance with the following guidelines:

- ➔ Authors may register more than one paper.
- ➔ English being the conference language, contributions must be submitted in English. Translation into and from other languages will not be provided.
- ➔ All abstracts must be submitted online at: www.ewshm2012.com/PaperRegistration.aspx
- ➔ Authors should indicate their preferences for oral presentation or poster.
- ➔ All abstracts submitted will be reviewed by members of the International Scientific Committee with regard to originality, scientific quality, significance, etc.
- ➔ Authors whose paper was accepted must send their registration form to the conference office (DGZfP) and pay the conference fee by March 15, 2012. The registration is binding.
- ➔ At the conference participants will get a booklet of all abstracts of the programme contributions.
- ➔ The manuscript (in English) must be received by DGZfP as an electronic file by March 15, 2012.

CALL FOR PAPERS – IMPORTANT DEADLINES

- ➔ Deadline for submission of abstracts December 15, 2011
- ➔ Notification of abstract acceptance January 31, 2012
- ➔ Registration of authors and payment of conference fee March 15, 2012
- ➔ Deadline for submission of full manuscripts March 15, 2012



PRELIMINARY SYMPOSIUM PROGRAMME

Plenary sessions, in which selected distinguished representatives of different industries will report on requests for monitoring transportation vehicles, machinery, and buildings.

Parallel sessions split in accordance to the different scientific topics addressed. Duration per paper will be 20 minutes including discussion.

Poster session will be opened on the first evening of the workshop along a reception to be organised on the conference premises and within the exhibition area. Posters will stay during the complete duration of the workshop in the exhibition area which will also be the area where coffee breaks will be held.

Technology exhibition, where providers of SHM technology will be given the opportunity to exhibit their technology in different booths indoor. Location of the exhibition will also be the area where coffee breaks will be held.

Technology Show »SHM in Action«: A technology show of exhibits from industrial and academic technology providers with a tour through the exhibition of SHM technology providers and a possible central experiment to be performed for SHM technology demonstration.

Post workshop excursions to testing facilities and SHM technology, sensor, materials and surface technology development, aircraft conversion and maintenance, automotive and light weight design including the Volkswagen ‘Gläserne Manufaktur’ (Transparent Factory).

Preworkshop seminars to selected topics still to be announced.

The following outline is a tentative programme which will be subject of a further update closer to the date of the conference:

Monday, 2 nd July 2012	Afternoon	Registration and Booth Construction
Tuesday, 3 rd July 2012	Morning	Registration / Keynote Lectures
	Afternoon	Parallel Sessions
	Evening	Reception, Poster Session and Technology Show
Wednesday, 4 th July 2012	Morning	Parallel Sessions and Keynote Lectures
	Afternoon	Parallel Sessions
	Evening	Banquet
Thursday, 5 th July 2012	Morning	Parallel Sessions and Keynote Lectures
	Afternoon	Parallel Sessions
	Evening	Social Boat Trip along the Elbe-River
Friday, 6 th July 2012	Morning	Parallel Sessions
	Afternoon	Site Visits and Closing Remarks

EXHIBITON

A vendor exhibition will be conducted to complement the technical presentations. A limited number of exhibit booths is available. The rental has been fixed to 500 Euro per sqm plus Value Added Tax (VAT).

The standard size for a booth is 2 x 3 m and 3 x 3 m. Other sizes are available if desired. For each standard booth one conference badge with full conference participation will be provided.

Location of the exhibition will also be the area where coffee breaks will be held. Additionally, a technology show of exhibits from industrial and academic technology providers with a tour through the exhibition of SHM technology providers will be arranged. If possible a central experiment will be performed for SHM technology demonstration.

Standard booth rental includes

- Standard wall divisions (white)
- Standard signboards (with max. 30 characters, 35 mm high, black)
- 1 stand no. per signboard
- Standard plug
- 2 spots
- General lighting, e.g. during booth building
- Cleaning (at night)
- Standard furniture:
 - 1 counter (110 x 60 x 105 cm)
 - 2 chairs
 - 1 table (70 x 70 cm)
 - 1 wastebasket

