

## Key Dates

Deadline for abstract submission:	31 December 2018
Abstract acceptance notification:	31 January 2019
Submission of full lengths papers:	31 March 2019
Paper acceptance notification:	31 May 2019
Registration of presenting authors:	31 May 2019
Early bird registration:	14 June 2019
Submission of final revised papers:	15 July 2019
Pre-conference scientific tour:	26 August 2019
SMAR 2019 conference:	27 – 29 August 2019

## Registration Fees

Early bird registration until 14 June 2019: 750.00 € and 300.00 € for students  
Standard registration after 14 June 2019: 850.00 € and 400.00 € for students  
For presenters: The inclusion of accepted papers in the conference proceedings requires that the payment of the registration fee is received not later than 31 May 2019.

Registration fee includes:

Conference documentation of full papers, ticket for conference reception and conference dinner, coffee breaks and lunches

Accompanying persons (non-scientists): 200.00 €  
including ticket for conference reception and conference dinner, coffee breaks and lunches

**Accommodations** at: [www.smar2019.org](http://www.smar2019.org) and [www.potsdam-tourism.com](http://www.potsdam-tourism.com)

## Cancellation

by 16 July, 2019: 50 % of participation fee  
from 17 July, 2019: no refund possible

## Language

The official conference language is English.

## Pre-Conference Scientific Tour

To be announced soon

## Conference Secretary

Ms. Steffi Dehla | 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: [smar2019@dgzfp.de](mailto:smar2019@dgzfp.de)

Institutional Sponsors:



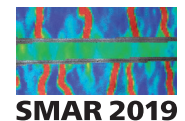
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## CALL FOR ABSTRACTS



# SMAR 2019 Potsdam

5<sup>th</sup> International Conference on  
Smart Monitoring, Assessment and  
Rehabilitation of Civil Structures



27 – 29 August 2019

[www.smar2019.org](http://www.smar2019.org)

## Scope

The International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2019, will provide a forum for international scientists, engineers, enterprisers and infrastructure managers to present and discuss the state-of-the-practice and recent advances in testing and monitoring technology, in structural modelling and assessment methods, and in the application of advanced materials for structural rehabilitation. The conference will provide a platform for exploring the potential of international cooperation.

SMAR 2019 is the fifth conference and will be sponsored jointly by the Bundesanstalt für Materialforschung und -prüfung (BAM), Germany, the Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland, the Istanbul Technical University (ITU), Turkey, the International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII), the International Institute of FRP in Construction (IIFC), the International Association for Bridge Maintenance and Safety (IABMAS) and RILEM.

## Topics

### Structural health monitoring

- Smart sensors
- Wireless sensor networks
- Implementation of structural monitoring
- Monitoring of off-shore structures and oil pipelines
- Advanced inspection and testing
- System identification and model updating
- Vibration-based structural health monitoring
- Non-destructive testing in civil engineering

### Performance and damage assessment –

Safety evaluation and reliability forecast

### Damage control, repair and strengthening

- External strengthening using FRP composites
- Strengthening of concrete, timber and steel structures

- Confinement of concrete columns
- Near surface mounting reinforcement
- Seismic safety assessment, rehabilitation and monitoring
- Strengthening, monitoring and life-cycle assessment of metallic structures

### Durability issues as related to harsh environments – Fire protection systems

### Shape memory alloys in civil structures

- Nickel-titanium, copper on iron-based SMA
- Application of SMA for civil structures using special properties such as damping superelasticity, shape memory effect of ductility

### Practical applications and case studies

### Visionary concepts

Please submit your abstract by 31 December 2018 at [www.smar2019.org](http://www.smar2019.org)

## Mirko Roš award for the best papers

1 paper in the field of Structural Assessment & Health Monitoring

1 paper in the field of Strengthening and Repair

Selected best papers will be proposed for publication in a Journal Special Issue of the Polymer Journal (online, open access) or in the Bulletin of Earthquake Engineering (Springer) or in the Journal Engineering Structures (Elsevier)

## Conference Venue

27 – 29 August 2019 | Potsdam/Germany | Hotel Dorint Sanssouci Berlin-Potsdam  
<https://hotel-potsdam.dorint.com>

## Conference Chairs

Dr. Rosemarie Helmerich, BAM, Germany  
Prof. Alper Ilki, Istanbul Technical University, Turkey  
Prof. Masoud Motavalli, Empa, Switzerland

## Organising Committee

Dr. Matthias Baeßler, BAM, Germany  
Dr. Werner Daum, BAM, Germany  
Bernadette Havranek, Empa, Switzerland  
Dr. Matthias Purschke, DGZfP, Germany  
Dr. Matthias Bartholmai, BAM, Germany  
Steffi Dehlau, DGZfP, Germany  
Prof. Yuri Petryna, TU Berlin, Germany  
Robert Widmann, Empa, Switzerland

## International Scientific Committee

Council members of ISHMII, IIFC and others, as announced on the conference website [www.smar2019.org](http://www.smar2019.org)

## Keynote Lecturers

**Prof. Janet Lees** University of Cambridge, UK – FRP Strengthening of Concrete Structures

**Prof. Danièle Waldmann-Diederich** University of Luxembourg – The Deformation Area Difference (DAD) Method for Condition Assessment of Bridge Structures

**Prof. Joaquim António Oliveira de Barros** University of Minho, Portugal – Extending the Strengthening Potentialities of Near Surface Mounted Technique: From Experimental Evidence to Advanced Numerical Simulations

**Prof. Eugen Brühwiler** EPFL, Switzerland Fatigue Monitoring of Bridges and UHPFRC to Strengthen Bridges – Recent Research Results and Applications

**Prof. Baochun Chen** Fuzhou University, China – Damage Control, Repair and Strengthening of Concrete Bridges in China

**Prof. Ahmet Yakut** METU, Turkey – Recent Advances on Assessment of Seismic Performance of Existing Structures

## Sponsorship and Exhibition

A vendor exhibition will be conducted to complement the technical presentations. Lucrative sponsorship and exhibition packages give all interested companies the opportunity to present themselves to business partners and new customers. For that reason we offer the following sponsorship and exhibition packages:

- Gold sponsor
- Silver sponsor
- Sponsor
- Exhibitor

More information on the different categories and the order form, you can find on the conference website [www.smar2019.org](http://www.smar2019.org).