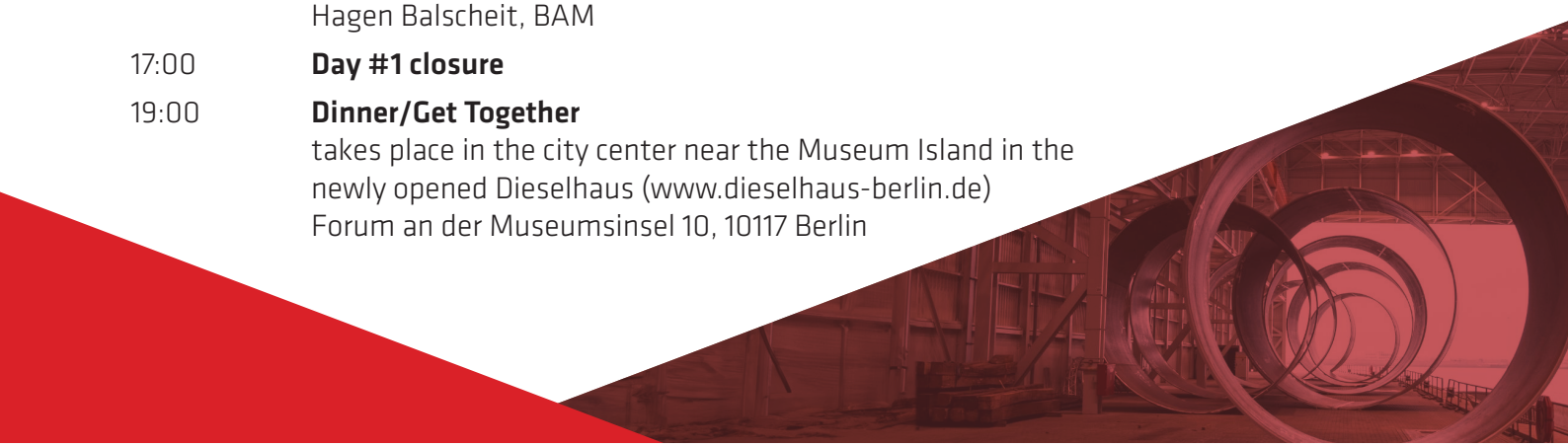
Colloquium
„Buckling of Offshore Wind Energy Structures“

BAM
Bundesanstalt für Materialforschung und -prüfung

14th/15th February 2024: Bundesanstalt für Materialforschung und -prüfung,
Unter den Eichen 87, House 5, Ludwig-Erhard-Saal, 12205 Berlin

Programme Day #1: Buckling of Tower and Foundation Structures

9:00	Registration and Coffee
9:30	**Colloquium Introduction** Dr.-Ing. Matthias Baeßler, BAM
9:45	*Keynote:* **The 8 MW wind turbine tower shell buckling benchmark (a.k.a. the ‚round robin‘) and selected Eurocode shell buckling developments** Dr. Adam J. Sadowski, Imperial College London
10:45	**Numerical buckling assessment in industrial practice** Dr. Marc Seidel, SGRE
11:15	Coffee break
11:45	**Practical Aspects: Pitfalls in Shell Buckling FEA - Designers View** Dr Peter Knoedel, Dr Knoedel Engineering Consultants
12:30	**Advanced structural analysis of digitally twinned metal wind turbine support towers** Lijithan Kathirkamanathan, Imperial College London
13:00	Lunch break
14:00	**Requirements to and Observations in Assessment for Certification** Dr. Claas Fischer, TÜV NORD EnSys
14:30	**Buckling assessment of steel structures in wind energy applications** Dr. Falk Lüddecke, Jörss – Blunck – Ordemann
15:00	**Structural Design for Caisson Installation** Chris Pilbin, Ramboll
15:30	Coffee break
16:00	**Buckling tests in the research project ProBucket** Viktor Widerspan, Fraunhofer IWES
16:30	**Soil Embedded Piles – Reference Tests for Model Validation** Hagen Balscheit, BAM
17:00	**Day #1 closure**
19:00	**Dinner/Get Together** takes place in the city center near the Museum Island in the newly opened Dieselhaus (www.dieselhaus-berlin.de) Forum an der Museumsinsel 10, 10117 Berlin



Partners:

BAM · ptj Projektträger Jülich Forschungszentrum Jülich · CARBON TRUST · JBO · TU berlin

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Programme Day #2: Pile Tip Buckling

9:00	Registration and Coffee
9:15	**Colloquium Introduction day #2** Dr.-Ing. Matthias Baeßler, BAM
9:30	*Keynote:* **Pile tip damage and extrusion buckling: observations and evaluation** Prof. em. Mark Randolph, Centre for Offshore Foundation Systems at the University of Western Australia
10:30	**VERBATIM Project: Project Introduction and Large Scale Experiments** Dr. Matthias Baeßler, Dr. Pablo Cuéllar, Dr. Winfried Schepers, BAM
11:15	Coffee break
11:45	**VERBATIM Project: Different scenarios initiating pile tip buckling in a soil continuum: Small scale model tests and numerical modeling** Prof. Frank Rackwitz, Dr. Daniel Aubram, Dr. Viet Hung Le, Dr. Taylan Akdag, Reza Daryaei, TU Berlin
12:30	**VERBATIM Project: Modelling of PTB from an engineering point of view** Albrecht Victor, Dr. Marcelo Bianco, Jörss – Blunck – Ordemann
13:00	Lunch break
14:00	**VERBATIM Project: Pile-boulder and pile-rock layer resistance relationships for pile tip buckling during impact driving** Dr. David Cathie, Orestis Zarzouras, Cathie Associates
14:25	**VERBATIM Project: Panel Discussion on PTB Verification** Prof. Christian Moormann, University of Stuttgart Per Sparrevik, NGI Dr. Michael Hauschildt, DNV Arnaud Gerthoffert, Bureau Veritas Moderation by James Sinfield, Carbon Trust
15:15	Coffee break
15:30	**Site characterisation and ground modelling** Arjen Kort, NGI
16:00	**Potentials of probabilistic approaches in offshore foundation installation** Orestis Zinas, BAM
16:20-16:30	**Colloquium closure** Dr.-Ing. Matthias Baeßler, BAM

W-lan Zugang
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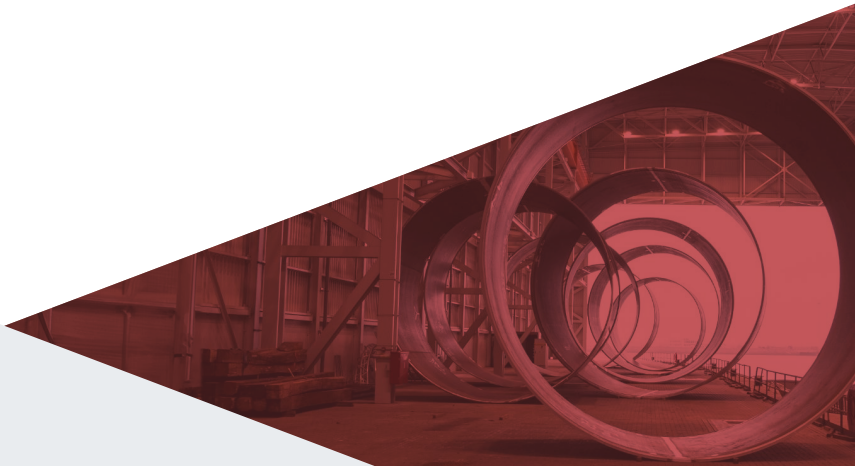

Colloquium Venue and Registration

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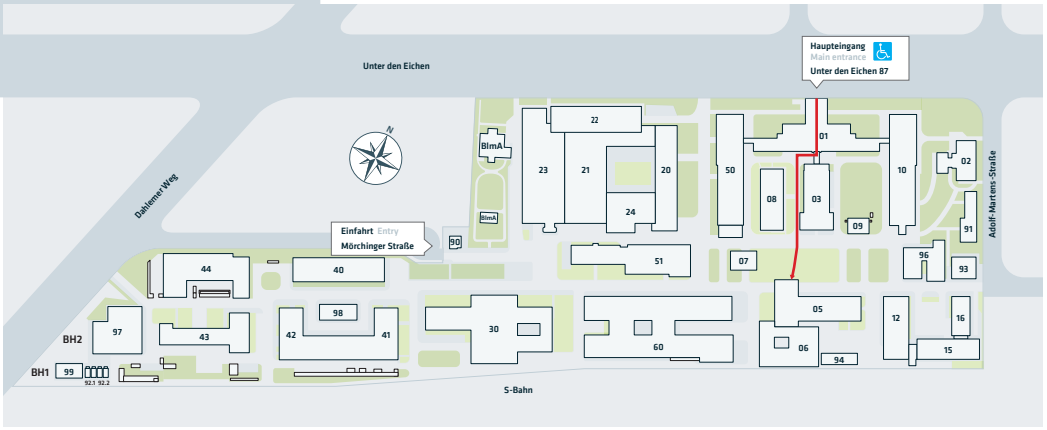
14th/15th February 2024: Bundesanstalt für Materialforschung und -prüfung,
Unter den Eichen 87, House 5, Ludwig-Erhard-Saal, 12205 Berlin

The venue for the Colloquium is located at our main premises at "Unter den Eichen" in Berlin Lichterfelde/Steglitz. We advise to use your travel planner before you visit us. The nearest international Airport is Berlin Brandenburg Airport (BER) in Schönefeld.

Public transport connections to us are provided by S-Bahn, U-Bahn and bus. Please check the website or app (BVG) of the Berliner Verkehrsbetriebe (BVG, Berlin public transport). The app also shows current construction works or technical disruptions.

1 Headquarters, Lichterfelde
Unter den Eichen 87,
12205 Berlin, Germany
Phone: +49 30 8104-0

Public transport station:
„Von-Laue-Str.“ (about 1 minute walk)
or „S Lichterfelde West“ (about 10 minutes walk)



Registration and further Information
https://express.converia.de/frontend/index.php?folder_id=7996&page_id=

Contact:

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Gefördert durch:

Bundesministerium für Wirtschaft und Klimaschutz

aufgrund eines Beschlusses des Deutschen Bundestages