4. FUTURE CONFERENCE: Wind & Maritime

**A CORDIAL WELCOME TO THE FUTURE CONFERENCE: WIND & MARITIME**

The already fourth future conference Wind & Maritime - the only conference in Northeastern Germany that connects wind energy with maritime industry - will, once again, bring together national and international industry participants. It offers a compact overview on market and technology trends related to wind energy (onshore and offshore), maritime industry and marine technology.

The booklet on hand provides an overview about the conference with all information you will need with your participation. In addition, you will get information on the event at www.wind-maritim.de at any time. Be there and use the opportunity to expand your network.

Turning power into business. We would be pleased to welcome you.

Your organizer
WindEnergy Network

Simultaneous interpreting services will be available for the entire conference (German-English / English-German).

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**Day 1 – Wednesday, 6 May 2015**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Admission and welcome coffee</td>
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<tr>
<td>09:00</td>
<td>Opening Plenary:</td>
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<td></td>
<td><strong>Moderation:</strong> Carsten Klehn, Business journalist</td>
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<tr>
<td>09:05</td>
<td>Welcome Words Andree Iffländer, Head of Association, WindEnergy Network</td>
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<td>09:15</td>
<td>Welcome Words Erwin Sellering, Prime Minister of the State of Mecklenburg-Vorpommern, Patron of the conference</td>
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<tr>
<td>09:30</td>
<td>Impulse presentation The energy turnaround – opportunities for the German Economy</td>
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<th>Time</th>
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<tr>
<td>10:15</td>
<td>Coffee break, Networking, Visit to the Exhibition</td>
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<tr>
<td>11:00</td>
<td>Start of the parallel Wind Energy Forums</td>
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**FORUM A**

**FUTURE WIND FARM PLANNING AND FRAME CONDITIONS**

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</table>
11:25 Civic Participation in Wind Energy from a Wind Farm Developers Perspective – Chances and Prospects
Klaus Heckenberger, Managing Director, UKA Nord Projektentwicklung GmbH & Co. KG

11:50 Regional Planning under the Time Pressure of coming Tenders
Marie Staudenmayer, Project Manager, wpd onshore GmbH Co.&KG

12:15 Status Quo of Planning the Offshore Wind Farm Arkona Basin South East
Holger Matthiesen, Project Manager, E.ON Climate & Renewables GmbH

12:40 Lunch break, Networking, Visit to the Exhibition

FORUM C WIND FARM PLANNING AND GRID EXPANSION
Moderation: Andree Iffländer, Head of Association, WindEnergy Network e.V.

14:00 Status Quo Grid Expansion Wind Energy (onshore and offshore) and European Grid Project Kriegers Flak
Dr. Lorenz Müller, Manager Projects Offshore, 50Hertz Transmission GmbH

14:25 Offshore Wind Farm Planning near-shore in Denmark
Peter Stabell, Managing Director, wpd offshore Denmark A/S

14:50 Visualisation of Future Wind Farm Planning
Prof. Dr.-Ing. Uwe Freiherr von Lukas, Site Management Rostock, Head of Department "Maritime Graphics", Fraunhofer Institute for Graphic Data Processing IGD

15:10 Marking European Offshore Wind Farms
Christian Cammin, Managing Director, Sabik Ltd

15:30 Coffee break, Networking, Visit to the Exhibition

FORUM E ELECTRICAL SYSTEMS AND SERVICES FOR WIND ENERGY
Moderation: Andree Iffländer, Head of Association, WindEnergy Network e.V.

16:00 Automated Manufacturing of Tube Joints for Offshore Foundation Structures
Maik Hirsack, Project Manager Automated Tube Joint Manufacturing / Construction, IMG Ingenieurtechnik und Maschinenbau GmbH

16:25 Internal Wind Farm Cabling of Offshore Wind Farms
Alex Gauntt, Business Development Manager, Siem Offshore Contractors GmbH

16:50 Risk Management in Offshore Wind Energy Projects
Peter Frohböse, Head of Section Offshore Germany, DNV GL – Energy

17:15 Status-oriented maintenance – Condition Monitoring Systems in the Offshore Wind Energy Sector
Jens Krieger, Technical Director, airwerk Technical Solutions

17:40 End of the 1st conference day
PARALLEL FORUMS

FORUM B  ONSHORE WIND ENERGY MARKET AND STORAGE

Moderation: Carsten Klehn, Business Journalist

11:00  Market Overview Onshore Wind Energy Germany
Dirk Briese, Managing Direktor, wind:research GmbH

11:30  Repowering Onshore Wind Energy – Status Quo and Opportunities
Henning Dettmer, Managing Director, Federal Wind Energy Association

12:00  The First Commercial 5 MW Lithium-ion Battery Farm for Providing Balancing Energy an First Experiences
Tobias Struck, Technical Product Development, WEMAG AG

12:30 Lunch break, Networking, Visit to the exhibition

FORUM D  INNOVATIVE PRODUCTS AND PROCEDURES FOR THE WIND ENERGY SECTOR

Moderation: Carsten Klehn, Business Journalist

14:00  Industry 4.0 - Flexible Processing of Rotor Blades with mobile Robot Systems
Alois Buchstab, Vice President Division Industrial Business Development, KUKA Roboter GmbH

14:30  Optimizing structural components in wind turbines
Dr. Michael Beyer, Managing Director, Windrad Engineering GmbH

15:00  Radar-based systems "airspex" for Onshore Wind Turbine Lighting for Increasing Acceptance
Thomas Herrholz, Managing Director, ENERTRAG Systemtechnik GmbH

15:30  Coffee break, Networking, Visit to the exhibition

FORUM F  WIND TURBINES – TECHNOLOGY AND DEVELOPMENTS

Moderation: Carsten Klehn, Business Journalist

16:00  The rotor is the engine: N131/3000 - new standards for onshore wind energy
Jan Hagen, Head of Product Management, Nordex SE

16:30  EISMAN/ERZMAN: Operation Strategies during and after Grid Shutdowns towards Yield Optimization
Ralf Hendricks, Sales Representative for Schleswig-Holstein, Siemens AG

17:00  Innovative Tower Systems for the Wind Energy Sector (Onshore)
Josef Knitl, Division Manager Development/Production, Member of the Expanded Management Board, Max Bögl Wind AG

17:30  End of the 1st conference day
EVENING RECEPTION

18:30 Admission
Location: Lokschuppen at the City Harbour · Am Strande 1 (Next to the warehouse buildings) · 18055 Rostock
Kindly supported by IBERDROLA Renovables Offshore Deutschland GmbH

Moderation: Christian Weiß, Deputy Chairman
WindEnergy Network

19:00 Welcome Words Andree Iffländer, Head of Association, WindEnergy Network
19:05 Welcoming speech Harry Glawe, Ministry of Economics, Construction and Tourism Mecklenburg-Vorpommern
19:15 Welcoming speech Jürgen Blume, Managing Director, IBERDROLA Renovables Offshore Deutschland GmbH
19:20 Buffet and Networking
22:00 End of the evening event

DAY 2 – THURSDAY, 7 MAY 2015

FORUM MARITIME SYSTEMS, VESSELS AND MARINE TECHNOLOGY

Moderation: Stefan Säuberlich, Chairman of the Management, IMG Ingenieurtechnik und Maschinenbau GmbH

08:00 Admission and welcome coffee
09:00 Introduction Moderation
09:05 National Master Plan Maritime Technologies – Status Quo and Outlook Jörgen Thiele, Management, Foundation OFFSHORE-WIND ENERGY
10:05 Integrated Navigation Systems for Offshore Wind Farm Service Vessels Andreas Lentfer, Director Business Development and Strategies, Raytheon Anschütz GmbH
10:35 Coffee break, Networking, Visit to the Exhibition
11:45 Voith Propellers – Innovative Ship Propulsions for Offshore Special Vessels Dr. Dirk Jürgens, Vice President Research and Development, Voith Turbo Schneider Propulsion GmbH & Co. KG
12:15 LNG – Drive System for the Future of Shipping Henning von Wedel, Concept Development & Innovation, Wärtsilä Deutschland GmbH
12:45 Lunch break, Networking, Visit to the Exhibition
FORUM RESEARCH AND DEVELOPMENT – MONITORING ON WIND TURBINES FROM HEAD TO TOE

In cooperation with the Fraunhofer Society (Organisation Fraunhofer Institute for Ceramic Technologies and Systems, Branch institute Material Diagnostics IKTS-MD) and DGZfP German Society for Non-Destructive Testing (Expert Committee Status Monitoring) with user workshops

**Moderation:** Dr. Lars Schubert, Head of the Expert Committee Status Monitoring, DGZfP and Head of Department Systems for Status Monitoring, Fraunhofer IKTS-MD

09:00  **Welcome and Opening** Dr. Lars Schubert, DGZfP and Fraunhofer IKTS-MD

09:15  **Requirements to Monitoring Systems from the Regulations Perspective** Dr. Lars Sitzki, Global Product Manager Renewables, TÜV NORD Group

09:35  **Activities of the Fraunhofer Alliance Adaptronics in the Wind Turbine Field** Heiko Atzrodt, Managing Director, Fraunhofer Alliance Adaptronics

09:55  **Spatial Resolution Rotor Blade Monitoring with Sound Emission** Bernd Frankenstein, Department Systems for Status Monitoring, Fraunhofer IKTS-MD

10:15  **Structural Health Monitoring of Onshore and Offshore Wind Turbines based on Vibration Signals** Dr. Herbert Friedmann, Head R&D, Wöffel Beratende Ingenieure GmbH & Co KG

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**Moderation:** Dr. Hans- Gerd Bannasch, Managing Director, MCC Maritimes Consulting Center GmbH

13:45  **Laser MSG Hybrid Welding in Ship Building, Practice Reports** Christian Seifert, Head Research and Development, and Christian Tessenow, Development Engineer, IMG Ingenieurtechnik und Maschinenbau GmbH

14:15  **Fibre Composites - Applications and New Solutions for Maritime Industries** Norman Decker, Projekt Manager and Proxy, tfc tools for composite

14:45  **Norms and Standards in the Maritime Welding Field: Shipbuilding versus Offshore Wind Energy and "Lessons Learned"** Jan Hoffmann, Managing Director, Schweißtechnische Lehr- und Versuchsanstalt Mecklenburg-Vorpommern GmbH

15:15  **Coffee break, Networking, Visit to the Exhibition**

15:45  **Innovative Procedures for Recurring Inspection of Structures on Foundation Structures** Torsten Turla, Managing Partner, MBT GmbH

16:15  **Planning of Towing and Installing the Floating Offshore Foundation (SOF)** Prof. Dr.-Ing. habil. Jochen Großmann, Managing Director, GICON - Großmann Ingenieur Consult GmbH

16:45  **Marine Coordination, a Safety-relevant Key to Success** Axel Juhnke, Business Development Manager / Senior Consult, WindManShip GmbH

17:15  **End of the Event**
10:35  Coffee break, Networking, Visit to the Exhibition

11:15  "Condition Monitoring" as Technology Concept for Offshore Wind Turbines – Basics of a Condition Based Service (CBS) Holger Fritsch, Managing Director, Bachmann Monitoring GmbH

11:35  Autonomous Sensor Network and Structure Monitoring at a Wind Turbine Tower – the Project ANÜBeS Thomas Siebel, Deputy Project Manager, Fraunhofer LBF

11:55  Reliability of Optical Fibres for Strain Measurement in Offshore Applications Detlef Hofmann, Department Sensor Systems, Federal Agency for Material Research and Testing, and Dr. Claus Kupferschmidt, Department Wind Farm Planning and Operation, Fraunhofer IWES

12:15  Long-term Monitoring of Structural Components and Locking Ring Bolt Connections in WT Lattice Towers Norman Fuchs, Team Leader Mechanical Joining Technology / Testing Technology, Fraunhofer AGP

12:45  Lunch break, Networking, Visit to the Exhibition

13:45  Monitoring of Welding Seams for Foundation Structures Dr. Bianca Weihnacht, Department Systems for Status Monitoring, Fraunhofer IKTS-MD

R&D USER SEMINAR

14:05  Practical User Seminar How do the solutions look like that allow wind turbine monitoring? Which systems for the offshore sector exist and where are the limits of the implemented procedures?

Dr. Lars Schubert as Head of the Expert Committee Status Monitoring of the DGZfP invites to the 1st user seminar. The content presented in the morning can be practically experienced and discussed with experts. The content of the practical demonstrations is as diverse as the presentation offers. Ranging from rotor blade monitoring systems to monitoring systems for corrosion damages on offshore structures, latest technologies related to the topic Monitoring of Wind Turbines will be presented. The solution spectrum covers function demonstrators as well as finished products.

Special highlight will be the demonstration of a corrosion detection system on an original offshore tube joint – you can be curious!

15:15  Coffee break, Networking, Visit to the exhibition

15:45  Continuation R&D User Seminar

17:15  End of the Event
# PRICE STRUCTURE

<table>
<thead>
<tr>
<th>Category</th>
<th>Groups of participants</th>
<th>Period</th>
<th>Wed, 6 May 2015 (Registration for Opening and WindEnergy Forums)*</th>
<th>Thurs, 7 May 2015 (&quot;Registration for Forum Maritime Systems, Vessels and Marine Technology&quot; and &quot;Forum Research and Development – Monitoring an Wind Turbines from Head to Toe&quot;)*</th>
<th>Evening reception*</th>
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<td>1a</td>
<td>Non-members</td>
<td>1st or 2nd day (alternatively)</td>
<td>290,00 EUR</td>
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* All listed prices are net prices, the net amount increases for legal VAT
** Limited contingent (first come – first serve)

# REGISTRATION

We kindly ask you for online registration before 28 April 2015 at www.wind-maritim.de
Make also use of our early booking discount of 5% before 31 March 2015. A free cancellation is possible before 28 April 2015.

For questions, please, contact:

**Registration management HanseMesse**
Rostocker Messe- und Stadthallengesellschaft mbH:
Contact: Yvonne Spörcke
Tel.: +49 381 – 440 06 05 · Fax: +49 381 – 440 06 66
Email: y.spoercke@messeundstadthalle.de

**Conference Venue:**
Rotunde der HanseMesse Rostock
Zur HanseMesse 1-2 · 18106 Rostock

**Venue Evening reception:**
Lokschuppen im Stadthafen · Am Strande 1
(Next to the warehouse buildings) · 18055 Rostock
Dear participants of the future conference Wind & Maritime, contingents of rooms are available for individual booking in the hotels listed below related to stays from 5 to 7 May 2015. The booking has to be done personally by every participant, stating the keyword: "Wind & Maritim 2015". For bookings at the a-ja Warnemünde and the Motel One, please, use the forms available at the Online Download section at www.wind-energy-network.de/wind-und-maritim-hotels.html should be used. Additional accommodation offers are available at the Hanseatic City of Rostock’s tourism portal (www.rostock.de/urlaub-freizeit.html).

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<td>Lange Str. 40 · 18055 Rostock</td>
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<td>(Contingent before 7 April 2015)</td>
<td>Tel.: +49 381 – 375 035-00</td>
<td>99,00 EUR per single room per night</td>
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<td>75,00 EUR per single room per night (Queensize)</td>
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<td>Fax: +49 40 – 696 352 589</td>
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