

## Program, November 21<sup>st</sup>

<b>09:00</b>	<b>Registration and social coffee</b>
<b>09.15</b>	<b>Welcome by Prof. J.M. Guilemany</b>
<b>09:45</b>	<b>Key note industrial partner I: Jens Ingemann Madsen. SUZLON</b>
<b>10:15</b>	<b>WALID project presentation:</b> <ul style="list-style-type: none"> <li>• “Wind Blade Using Cost-Effective Advanced Lightweight Design”. Florian Rapp. Fraunhofer Institute for Chemical Technology ICT. Polymer Engineering. Germany.</li> </ul>
<b>10:30</b>	<b>RIBLET project presentation:</b> <ul style="list-style-type: none"> <li>• “Functional surfaces for the improvement of airfoils”. Volkmar Stenzel. Fraunhofer-Gesellschaft Zur Foerderung der Angewandten Forschung E.V. Germany.</li> </ul>
<b>10:45</b>	<b>LIBI project presentation:</b> <ul style="list-style-type: none"> <li>• “Lightning Protection of wind turbine blades, Technical design and Validation methods”. Soren Find Madsen. Global Lightning protection services AS. Denmark.</li> </ul>
<b>11:00</b>	<b>Workshop I: Blade Optimization</b> <b>Chairperson: Jens Ingemann Madsen. SUZLON</b> <ul style="list-style-type: none"> <li>• “Automated fiber placement process of thermoplastic tapes for wind blade application”. Bjoern Beck. Fraunhofer Institute for Chemical Technology ICT. Polymer Engineering. Germany.</li> <li>• “Numerical Simulations of Functional Surfaces for the improvement of airfoils on wind turbine”. Christoph Steinmayr. Bionics Surfaces Technologies, GmbH. Austria.</li> <li>• “Lowering the Cost of energy by ensuring optimum lightning performance”. Kim Bertelsen. Global Lightning protection services AS. Denmark.</li> </ul>

## The Wind Energy Sector - a European Challenge

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<b>12:30</b>	<b>Lunch</b>
<b>13:30</b>	<b>Key note industrial partner II: Michael Pedersen .STATKRAFT</b>
<b>14:00</b>	<b>SUPRAPOWER project presentation:</b> <ul style="list-style-type: none"><li>• “Suprapower Superconducting 10MW lightweight generator for offshore wind turbines”. Igone Ugalde. Tecnalia. Spain.</li></ul>
<b>14:15</b>	<b>ECOSWING project presentation:</b> <ul style="list-style-type: none"><li>• “Advanced Power Conversion for low-speed wind turbines”. Richard Griessel. Delta Energy Systems, GmbH. Germany.</li></ul>
<b>14:30</b>	<b>NANOLEAP project presentation:</b> <ul style="list-style-type: none"><li>• “Nanocomposite for building constructions and civil infrastructures: European network pilot production line to promote industrial application cases”. Jose Luis Valverde. Universidad de Castilla – La Mancha. Spain.</li></ul>
<b>14:45</b>	<b>Coffee break</b>
<b>15:00</b>	<b>Workshop II: New Turbine Improvement</b> <b>Chairperson:Michael Pedersen .STATKRAFT</b> <ul style="list-style-type: none"><li>• “Towards 10MW Turbines trough nacekke weight reduction”. Antonio Fernández. Ingeteam Service.S.A Spain.</li><li>• “Next generation wind turbine generators: lowering cost and weight with superconductors”. Carsten Büher and Jurgen Kellers. ECO5 GmbH. Germany.</li></ul>
<b>17:00</b>	<b>Round up I</b>
<b>17:30</b>	<b>End of day I</b>
<b>20:00</b>	<b>Social Dinner</b>

## The Wind Energy Sector - a European Challenge

## Program, November 22<sup>nd</sup>

<b>09:00</b>	<b>Social coffee</b>
<b>09.15</b>	<b>Key note by industrial partner III: Find Mølholt Jensen. BLADENA</b>
<b>09:45</b>	<b>ACORN project presentation:</b> <ul style="list-style-type: none"><li>• “Long-life coatings to combat corrosion and fouling on marine structures”. Heidi Lovelock and Henry Begg. TWI. U.K.</li></ul>
<b>10:00</b>	<b>DASHWIN project presentation:</b> <ul style="list-style-type: none"><li>• “On-site wind turbine blade inspection using shearography”. Jianxing Gao. TWI. U.K.</li></ul>
<b>10:15</b>	<b>MARE-WINT project presentation:</b> <ul style="list-style-type: none"><li>• “Mare-Wint project overview”. Marcin Luczak. Instytut Maszyn Przeplywowych Im Roberta Szewalskiego Polskiej Akademii Nauk. IMP PAN. Poland.</li></ul>
<b>10:30</b>	<b>Workshop III: Off-shore wind O&amp;M</b> <b>Chairperson: Find Mølholt Jensen. BLADENA</b> <ul style="list-style-type: none"><li>• “Effects of grit blasting parameter variations on thermal spray coating adhesion”. Henry Begg, Melissa Riley and Heidi Lovelock. TWI. U.K.</li><li>• “Application-oriented results of Mare-Wint project”. Marcin Luczak &amp; Kim Branner. Instytut Maszyn Przeplywowych Im Roberta Szewalskiego Polskiej Akademii Nauk. IMP PAN. Poland. &amp; DTU Wind Energy Department of Wind Energy. Technical University of Denmark</li></ul>

**WIND TURBINE INDUSTRY MEETS SCIENCE**

**The Wind Energy Sector - a European Challenge**

Barcelona International Workshop & Conference November 21<sup>st</sup> -22<sup>nd</sup>

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<b>12:30</b>	<b>Lunch</b>
<b>13:30</b>	<b>Key note by industrial partner IV: Enrique J. Garcia Vidorreta.NCC</b>
<b>14:00</b>	<b>JEDI-ACE project presentation:</b> <ul style="list-style-type: none"><li>• “Development and Evolution of In-Flight Ice Protection Systems”. Nadine Refheld. Fraunhofer-Gesellschaft Zur Forderung Der Angewandten Forschung E.V. Germany.</li></ul>
<b>14:15</b>	<b>HYDROBOND project presentation:</b> <ul style="list-style-type: none"><li>• “Pros and cons of the coating technology applied in the wind industries: solutions in Hydrobond Project”. Irene Garcia &amp; Martin Herlov. Thermal Spray Centre (CPT) &amp; Muehlhan. Spain &amp; Denmark.</li></ul>
<b>14:30</b>	<b>Coffee break</b>
<b>15:00</b>	<b>Workshop IV: Blade surface treatment</b> <b>Chairperson:Enrique J. Garcia Vidorreta.NCC</b> <ul style="list-style-type: none"><li>• “Development of a new flush-mounted photonic ice sensor”. Francesc Diaz. Universitat Rovira i Virgili. Spain.</li><li>• “Cost effective Jet Erosion test for analyzing of erosion rate in blades”. Javier Sanchez &amp;Luca Lusvarghi, Giovanni Boleli. Thermal Spray Centre (CPT) &amp; UNIMORE. Spain &amp; Italy.</li><li>• “Recent Ice Wind Tunnel Tests for Assessment of Icephobic Materials”. Nadine Refheld. Fraunhofer-Institut für Fertigungstechnik und Angewandte Materialforschung IFAM Klebtechnik und Oberflächen Abteilung Lacktechnik . Germany.</li></ul>
<b>16:30</b>	<b>Round up II</b>
<b>17:00</b>	<b>Concluding Remarks &amp; Closing of Conference</b>

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