Invitation to IEA Wind Task 32

General Meeting 2018

Date: 22nd and 23rd October 2018
Venue: BMO Center, Alberta, Canada

IEA Wind Task 32
IEA Wind Task 32 is an international collaboration around research into the use of wind lidar for wind energy applications. Task 32 aims to identify and to mitigate barriers to the use of wind lidar technology in wind energy applications such as site assessment, power performance, loads & control, and complex flow. More details about Task 32 can be found on the task website.

2018 General Meeting
Our annual General Meeting provides an international open platform for industrial and academic partners to exchange ideas, experiences, and measurement techniques for wind lidar in wind energy.

In 2018, several workshops were held to identify and mitigate barriers to the use of wind lidar for wind energy applications. At the General Meeting we will hear reports from those workshops and other events, and work together to organize new ones that are aligned with Task members’ needs.

The 2018 General Meeting will focus on the needs of the North American Wind Industry when using wind lidar on- and offshore, and participants will explore solutions and how to leverage international experience. The use of lidar in cold or icing conditions will be an important theme, together with operations in remote locations.

Date
Monday 22nd and Tuesday 23rd October, 2018.

Venue
BMO Centre, Calgary, Alberta, immediately before the CanWEA Annual Conference and Exhibition.
Hosts
The 2018 General Meeting is being organized by Task 32 together with Nergica, a centre of applied research that stimulates innovation in the renewable energy industry through research, technical assistance, technology transfer and technical support for businesses and communities.

Accommodation
We suggest one of the downtown options described at http://windenergyevent.ca/.

Event News
Please check the meeting website for news. Or, subscribe to our mailing list.

Opportunities for Presentations
Participants are welcome to contribute presentations that fit the meeting theme and agenda. If you would like to share something, please provide details when you are registering.

Poster Session
We will hold a poster session to give everyone the chance to share their work. You are welcome to share new results or content already presented at another event. Please bring your poster with you as we can’t print posters or accept shipments. We will provide poster boards, pins, tape, etc.

Workshop Proposals
On day 2 you will have the opportunity to present suggestions for a Task 32 workshop in 2019. Task 32 provides logistics support to the workshop and workshop leaders. Most of these workshops will be based on ideas from the previous day and prepared during the meeting, but you could also prepare something in advance. Please also contact the Operating Agent to discuss your ideas.

If you are interested in leading a workshop, please prepare a one-slide proposal including
- The barrier or specific issue which is addressed
- The workshop concept, and how the workshop will help to mitigate the barrier
- Who might be a good workshop leader?
- Where and when could the workshop take place?

Registration
Please register here.

Please register before Thursday 18th October 2018. Registered participants will receive the updated agenda and participant list a few days before the meeting. Registration to the meeting is free of charge for participants from member countries.
### Program Draft
Please note the following program is subject to change.

#### Day 1: Where are we?

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Arrival with coffee</td>
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<tr>
<td>9:00</td>
<td><strong>Welcome</strong></td>
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<td></td>
<td>• Housekeeping + Introduction Round</td>
<td>Andy Clifton</td>
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<tr>
<td>9:30</td>
<td><strong>What’s going on in Task 32</strong></td>
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<td></td>
<td>• What is Task 32?</td>
<td>Andy Clifton</td>
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<td>• Workshop 7: Complex Terrain</td>
<td>Andy Clifton</td>
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<td>• Workshop 8: Certification of Lidar-assisted control</td>
<td>Eric Simley (NREL)</td>
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<td>• Workshop 9: Short-term forecasting</td>
<td>Peter Clive (Wood)</td>
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<td>• Workshop 10:</td>
<td>Eric Simley (NREL)</td>
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<tr>
<td>10:30</td>
<td>Break</td>
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<td>11:00</td>
<td><strong>Experience in Canada and the USA</strong></td>
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<td>• C-FARS presentation (10 minutes)</td>
<td>Philippe Coulombe-Pontbriand (RES Americas)</td>
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<td></td>
<td>• Breakouts - what’s missing in N. America?</td>
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<td>• Discussion - what can we transfer already?</td>
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<td>12:00</td>
<td>Lunch break</td>
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<td>13:00</td>
<td><strong>What’s new in the world of wind lidar?</strong></td>
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<td>Results of recent research projects &amp; updates from manufacturers:</td>
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<td>• Lidar performance: 2018 achievements and outlook</td>
<td>Paul Mazoyer (Leosphere)</td>
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<td>• Development of the Stuttgart Wind Energy (SWE) Lidar Scanner</td>
<td>Holger Fürst (SWE)</td>
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<td>14:00</td>
<td>Break</td>
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<td>14:15</td>
<td><strong>Offshore Wind Update</strong></td>
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<td>• Floating lidars (title TBC)</td>
<td>Nicolai Gayle Nygaard (Orsted)</td>
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<td>• Lidar is how we integrate pre-construction assessments into a unified digital workflow</td>
<td>Peter Clive (Wood)</td>
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<td>15:00</td>
<td>Break</td>
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<td>15:30</td>
<td><strong>World Café</strong></td>
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<td>Discussions in groups around the issues, needs, and solutions for lidar applications, e.g. :</td>
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<td>• Resource assessment on- and offshore</td>
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<td>• Power performance testing</td>
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<td>• Lidar-assisted turbine control</td>
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<td>• Plant control</td>
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<td>• Loads</td>
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<td>• Wakes</td>
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<td>• Forecasting</td>
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<td>• New applications</td>
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<td>16:30</td>
<td><strong>Reporting</strong></td>
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<td>5-minute report-out from each group</td>
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<td>17:00</td>
<td><strong>Let’s talk!</strong></td>
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<td>Poster Session and reception (sponsorship offers welcome!)</td>
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<td>19:00</td>
<td>Dinner (no-host, location tbc)</td>
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### Day 2: Where are we going?

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>9:30</td>
<td><strong>Mitigating barriers in 2019</strong>&lt;br&gt;New ideas, techniques, and solutions for wind lidar:</td>
<td>Nicolai Gayle Nygaard</td>
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<td>• Results from the Windfield Reconstruction Round-robin and plans for next steps</td>
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<td>• The AWaken Project</td>
<td>Andy Scholbrock (NREL)</td>
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<td>10:30</td>
<td>Break</td>
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<tr>
<td>11:00</td>
<td><strong>Setting priorities</strong>&lt;br&gt;Discussion of for new workshop topics</td>
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<tr>
<td>12:00</td>
<td><strong>Close</strong>&lt;br&gt;Summary of ideas and plans for 2019 and beyond</td>
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<tr>
<td>13:00</td>
<td><strong>End of meeting</strong></td>
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