



IEA Wind TEM#100 on Aviation System Cohabitation

Online meeting, 8-9 December 2020

Meeting Agenda

| Time | Topic | Presenter |
|---|---|---|
| Tuesday, 8 December 2020 | | |
| Introduction Session | | |
| 13:25 CET | Check-in | All |
| 13:30 | Welcome and meeting overview | N. El Hayek, <i>IEA Wind Task 11</i> |
| | Speed-Dating - online meeting ice-breaker <i>3 min. break-outs with 3 randomly chosen participants</i> | |
| | IEA Wind TCP and Task 11 | N. El Hayek, <i>IEA Wind Task 11</i> |
| 13:45 | Introduction to the topic: exclusion vs. case-by-case | M. Ducret, <i>Planair SA</i> |
| 14:00 | A RADAR case study – case-by-case analysis Q&A | R. Pauli, <i>Swiss Air Force & Swiss MAA</i> |
| 14:20 | Example conflict situations between wind turbines and aviation – A Swedish case study Q&A | M. Stenkvisst & P.-J. Rigole, <i>Swedish Energy Agency</i> U. Gustafsson, <i>Swedish Defence</i> |
| Session 1: Lighting of Wind Turbines | | |
| 14:45 | Transponder-based system for the control of obstacle lights of wind farms | A. Binisi, <i>Scandinavian Avionics</i> |
| 15:00 | Lighting: current practices & developments Q&A | M. Ducret, <i>Planair</i> R. Pauli, <i>Swiss MAA</i> |
| 15:15 | Break (15 minutes) | |
| Session 2: RADAR Systems | | |
| 15:30 | The Offshore Wind Industry Working with Aviation and Defence Stakeholders | D. Goncalves, <i>Vattenfall</i> |
| 15:50 | Wind Turbine Radar Interference Mitigation Efforts in the United States | Jason Biddle, <i>MIT Lincoln Lab</i> Bryan Miller, <i>BEM Int'l, LLC</i> |
| Discussion session | | |
| 16:30 | Trends and worthwhile discussions based on pre-meeting questionnaire | M. Ducret, <i>Planair SA</i> |
| 16:35 | Moderated Break-out session: Identification of open issues and needed solutions <ul style="list-style-type: none"> Open questions & needed solutions Main roadblocks and priority topics | Chairs: 1. M. Ducret 2. P.J. Rigole Note takers: 1. M. Stenkvisst 2. T. Schrader |
| 17:15 | Plenary with overview of results of break-out groups <i>Short discussion / Q&A</i> | N. El Hayek, <i>IEA Wind Task 11</i> |
| 17:30 | Group picture & Close of the day | |

| Time | Topic | Presenter |
|-----------------------------------|---|---|
| Wednesday, 9 December 2020 | | |
| 13:25 CET | Check-in | All |
| 13:30 | Welcome and Recap of Day 1 Definitions: what have you learnt? | T. Schrader, <i>Physikalisch-Technische Bundesanstalt PTB</i> |
| 13:40 | Identified issues, past and current experiences | H. Sjöström, <i>OX2</i> D. Mortensen, <i>Ørsted</i> |
| 14:10 | Investigations on operational Radars using Octocopters - antenna measurements and obstacle reflectivity | Jochen Bredemeyer, <i>FCS Flight Calibration Services GmbH</i> |
| Session 3: VOR Systems | | |
| 14:35 | WERAN and WERANPLUS projects (Part 1) Q&A | T. Schrader, <i>PTB</i> |
| 14:55 | WERAN and WERANPLUS projects (Part 2) | T. Schrader, <i>PTB</i> |
| 15:15 | Break (25 minutes) | All |
| 15:40 | Localisation and characterisation of large reflecting objects (wind turbines, towers, buildings) in the vicinity of D-VORs by airborne VHF passive RADAR techniques | K. Schubert, <i>Jade Hochschule Wilhelmshaven Oldenburg</i> <i>Elsfleth</i> |
| 16:00 | Results of the min-VOR project and a short summary on related report activities in Germany | R. Geise, <i>TU Braunschweig</i> |
| Discussion session | | |
| 16:20 | Moderated Break-out sessions <ul style="list-style-type: none"> • Lessons learnt • Still open issues • Way forward | Chairs: 1. M. Ducret 2. P.J. Rigole Note takers: 1. M. Stenkvis 2. T. Schrader |
| 17:00 | Plenary with overview of results of break-out groups <i>Short discussion / Q&A</i> | N. El Hayek, <i>IEA Wind Task 11</i> |
| 17:20 | Discussion and consensus among all participants <ul style="list-style-type: none"> • Timeline and next steps • Interactive poll | N. El Hayek, <i>IEA Wind Task 11</i> |
| 17:30 | Event close | N. El Hayek, <i>IEA Wind Task 11</i> |