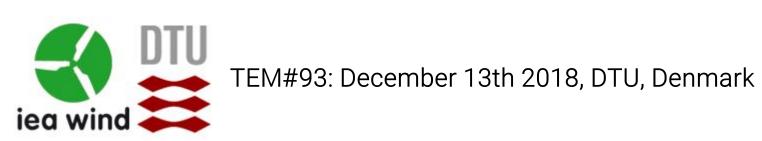
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Program

December 12th

Networking dinner starting at 19:00.

Practical details will be communicated as soon as available.

December 13th @DTU Riso in Roskilde

H.H. Koch Meeting Room, Bld. 112, Risø Campus, Technical University of Denmark (DTU),

Frederiksborgvej 399, Roskilde 4000, Denmark

8:15 Coffee

8:30 Welcome and Opening of TEM 93 (Anand Natarajan, DTU/Lionel Perret, IEA Wind/Planair)

8:45 Presentations – I: Wind Farm Perspective

8:45 Wind farm owner perspective: Business case life extension (Jan-Hendrik Wunsch, European energy)

9:00 Overview and potential for life time extension of wind farms in Europe (Ivan Komusanac, Wind Europe)

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- 9:15 Site specific evaluation of design life (Thomas Krogh, Orsted)
- 9:30 Bellacorick Wind Farm (Shane Holden, Bord na Mona)
- 9:45 YR21 Investment Decision Support for Next Generation Wind Farming / Economic Contingency Planning For Wind Farm Life Extension and Investment Decision Support (Rupp Carriveau / Lindsay Miller, University of Windsor)
- 10:00 2030: End-of-life wind power capacity and wind energy target in Italy (Laura Serri, RSE S.p.A.)
- 10:15 The status of simulation method and modeling in China (Xu Honglei, Goldwind)
- 10:30 Coffee Break
- 10:45 Presentations 2: Wind farms to wind turbines
- 10:45 Results from the LifeWind Project: Data driven analysis (Anand Natarajan, DTU)
- 11:00 Wind turbine rotor re-blading for lifetime extension, (Alessando Croce, Politecnico di Milano)
- 11:15 Life-time extension by retro-fitting a load-reducing real-time controller (Axel Schild, IAV GmbH)
- 11:30 Wind turbine Lifetime Extension: The importance of full scale validation (Dominic Bolduc, Nergica)
- 11:45 White Etching Area cracks in bearings and other failure modes (Paul Veers, NREL)
- 12:00 Summary of existing standards relevant for life extension (Jannie Nielsen, AUU)
- 12:15 Control methods to enhance life time extension of wind turbines (Vassilis Pettas, Universität von Stuttgart)
- 12:30 Lunch
- 13:15 Break-out Session 1 (Modeling for remaining life prediction, H.H. Koch room)
- Group Leader: Nikolay Dimitrov
- 13:15 Brief Outline of Objectives (Nikolay Dimitrov, DTU)
- 13:20 Presentation 1: Remaining lifetime prediction modelling. A case-study. (Takis Chaviarapoulos, NTUA)
- 13:30 Presentation 2: Remaining useful lifetime from standard turbine signals (Michael Muskulus, NTNU)

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- 13:40 Presentation3: Estimation of remaining lifetime, models versus observations (Nikolay Dimitrov, DTU)
- 13:50 Group Discussion on methods for predicting remaining life
- 14:45 Prepare Presentation for Forum

13:15 Break-out Session 2 (Inspection methods and component damage, Christian Riisager room)

Group Leader: Ignacio Marti

- 13:15 Brief Outline of Objectives (Ignacio Marti, DTU)
- 13:20 Presentation 1: Effects of defects and damage on wind blade laminates (Joshua Paquette, SNL)
- 13:30 Presentation 2: Standardization of inspection and maintenance procedures for rotor blades (Kyle Wetzel, Wetzel Wind Energy Services)
- 13:40 Presentation 3: Probabilistic calculation of remaining sub structural lifetime based on strain measurements (Clemens Hubler, Universität von Hannover)
- 13:50 Group Discussion on methods for predicting remaining life
- 14:45 Prepare Presentation for Forum

13:15 Break-out Session 3 (guidelines for standardization on lifetime extension, Ole Rømer Room)

Group Leader: Anand Natarajan

- 13:15 Brief Outline of Objectives (Anand Natarajan, DTU)
- 13:20 Presentation 1: Reliability- and risk based life extension approaches (John Dalsgaard Sørensen, AUU)
- 13:30 Presentation 2: Best practices for life management and assessment for extended operation of wind farms (Mark Spring, Lloyds Register)
- 13:40 Presentation3: The technical specifications for wind turbine lifetime extension of CGC (Fu Pengcheng, China General Certification Center)
- 13:50 Group Discussion on methods and guidelines for standardization
- 14:45 Prepare Presentation for Forum

Plenum Continues

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- 14:45 Coffee
- 15:10 Presentation on Methods and modeling for remaining life prediction (Group 1)
- 15:20 Presentation on Inspection methods and Component Damage (Group 2)
- 15:30 Presentation on guidelines for standardization on lifetime extension (Group 3)
- 15:40 Discussion on enabling lifetime extension in the context of IEA (All)
- 16:30 End of Meeting

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