

NORCOWE's scientific a



Finn Gunnar Nielsen has a background in engineering from NTNU, with a PhD within Marine Hydrodynamics. He has for more than 30 years worked within R&D related to dynamics of offshore structures. Presently he holds a position as senior advisor in Statoil. His main activities are presently related to R&D within offshore wind. Finn Gunnar has also had

a position as adjunct Professor at NTNU, teaching marine operations. Presently he is adjunct professor at University of Bergen teaching at a master programme in energy. Finn Gunnar headed the R&D project that led to the Hywind floating offshore wind concept. He has also participated in several national and international committees related to offshore wind and marine renewable energy more generally. He is now chairing NORCOWE's scientific committee.

"Being member of the SAC I have the opportunity of early use of research results as well as challenge the researcher with industrial issues."

Finn Gunnar Nielsen

Andrea Hahmann is a senior scientist in the department of wind energy at the Danish Technical University (DTU Wind Energy). She obtained her PhD in Meteorology from the University of Utah in 1992. She has worked with atmospheric mesoscale and climate models for nearly 30 years. Before coming to the wind energy field 8 years ago, she worked in research of the influence of land cover to climate at the University of Arizona and in forecasting and atmospheric transport & dispersion problems at NCAR. She now works on atmospheric modeling applied to wind power forecasting and in regional wind energy resource assessment.



"In terms of wind energy meteorology offshore, Denmark and Norway share many similarities. But many aspects are quite unique to each region. My motivation for participating in the NORCOWE SAC is to be exposed to these similarities and contrasts, especially since I was educated in very different weather regimes in Brazil and the western USA. In addition, I am also interested in how such a large project is successfully managed."



Cecilie Kvamme is a scientist within fisheries biology at the Institute of Marine Research (IMR) in Bergen where she has been employed since 2005. At IMR she mainly works with fish (surveys, stock assessments, advice), and she is the scientist responsible for the North Sea herring and the sprat stocks. IMR has a team for giving consultative comments on wind

farm plans and applications when asked, and she has led this team for three years.

"As a biologist I am predominantly interested in the environmental effects of wind parks, which was also one of the focus areas of NORCOWE when it was established back in 2009. Being a member of SAC has also given me valuable insight into the other science fields related to wind parks, like maintenance, measuring and modeling wind, and the optimal design of wind parks."

Trond Kvamsdal is professor in Computational Mathematics at Department of Mathematical Sciences, NTNU and Chairman of the Scientific Committee (SC) of NOWITECH. His main area of interest is within the field of computational sciences and engineering, in particular the development of adaptive finite element methods for solving fluid-, and structural mechanics.



His focus related to offshore wind is within aerodynamics and fluid-structure interaction (wind-turbine blade interaction).

"As Chairman of the SC for NOWITECH it is of interest for me to be in dialogue with NORCOWE, and being a member of NORCOWE's SAC facilitates information exchange. In

advisory committee SAC

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Cecilie Kvamme

As a member of the SAC, I enjoy learning about the cutting-edge research occurring within NORCOWE, and exchanging ideas and approaches from the US wind energy research community."

Julie Kay Lundquist

particular, participation on the annual NORCOWE meetings is very useful in order to be updated on new research and innovations done by the NORCOWE consortium. Furthermore, our collaboration on organizing the Summer School is useful for my role at NOWITECH SC."



Julie Kay Lundquist is assistant professor of boundary-layer meteorology in the Dept. of Atmospheric and Oceanic Sciences, University of Colorado, with a joint appointment at the National Renewable Energy Laboratory. Her Ph.D. is in Astrophysical, Planetary, and Atmospheric Science from CU-Boulder, as is her M.S. degree. She studied English

and Physics as an undergraduate at Trinity University, San Antonio, Texas.

Her research group uses observational and computational approaches to understand atmospheric influences on turbine productivity, turbine wake dynamics, and downwind impacts of wind energy. At present, she is involved in field campaigns to improve wind energy forecasting capabilities in complex terrain, to develop improved simulations of stable boundary layer dynamics in complex terrain, and to assess wind turbine and wind farm wake behaviour.

Jan Willem Wagenaar is employed at the wind energy department of the Dutch renewable energy research center ECN. He is a trained physicist with a Master of Science degree from the University of Groningen and a PhD degree from the University of Nijmegen, both on theoretical particle physics. He joined ECN to work on wind energy straight after graduation. Within ECN he is responsible for the R&D line 'Facilities and Experiments'. In addition, he is a project manager and researcher in measurement related projects. He is particularly interested in LiDAR technology, power performance and wakes.



"I have been asked to join the Scientific Advisory Committee of NORCOWE and I have been delighted to do so. In my view NORCOWE is a significant and relevant research center comprising a balanced partnership between the research community and industry. For sure, NORCOWE is internationally orientated and I am glad to be part of it. I hope my input helps shaping the scientific content of the NORCOWE research."

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Jan Willem Wagenaar