

## HITEC Day

**Title:** Energy Meteorology

**Date:** 17 November 2015

**Time:** 8:30 –15:40

afterwards *get together* with snacks and drinks

**Location:** [University of Cologne](#) ► [Lecture Hall 4.001, Höninger Weg 100 50969 Köln](#)

Press door bell 'Hörsaal Uni Köln'; door opens automatically, take elevator to 4<sup>th</sup> floor.

Stops of tram 12 and bus 142 at 'Pohligstraße' (at the building), entrance from Höninger Weg.

8:30 – 8:35	Welcome and Introduction
8:35 – 9:15	Fundamentals of energy meteorology: influence of atmospheric parameters on solar energy production <b>Prof. Stefanie Meilinger</b> , Hochschule Bonn Rhein-Sieg, Sankt Augustin
9:15 – 9:55	Meteorological predictability, basics and challenges for energy meteorology <b>PD Dr. Hendrik Elbern</b> , Rhenish Institute for Environmental Research (RIU) Cologne and Forschungszentrum Jülich, IEK-8
9:55 – 10:25	Coffee-break
10:25 – 11:05	Using high-resolution reanalysis to assess the potential of renewable energy and risk of compound events <b>Prof. Susanne Crewell</b> , University of Cologne, Institute for Geophysics and Meteorology
11:05 – 11:45	Aerosols and irradiation – impact on the solar resource and solar yield forecasting <b>Dr. Marion Schroedter-Homscheidt</b> , Deutsches Zentrum für Luft- und Raumfahrt (DLR), Oberpfaffenhofen
11:45 – 12:45	Lunch-break
12:45 – 13:15	Photovoltaic module performance monitoring <b>Prof. Uwe Rau and Marzella Görig</b> , Forschungszentrum Jülich, IEK-5
13:15 – 13:55	Weather forecasts for renewable energy applications <b>Dr. Kristina Lundgren</b> , Deutscher Wetterdienst (DWD), Offenbach
13:55 – 14:20	Coffee-break
14:20 – 15:00	From the sun to the power outlet – Energy meteorology for a sustainable energy supply <b>Dr. Kurt Rohrig</b> , Fraunhofer Institute for Wind Energy and Energy System Technology (IWES), Kassel
15:00 – 15:40	Solar irradiance and PV power forecasts for the energy market <b>Jan Kühnert</b> , University of Oldenburg, Institute of Physics, Energy and Semiconductor Research
15:40 – 16:30	Get-Together with snacks