

**1<sup>st</sup> EAWE Summer School - Pamplona, 17<sup>th</sup> – 19<sup>st</sup> May 2010**

**1<sup>st</sup> WAUDIT School – Pamplona, 20<sup>th</sup> – 21<sup>st</sup> May 2010**

**The Seminar will be held in the Public University of Navarre (UPNA)**

**EAWE SCHOOL**

**Monday 17<sup>th</sup> May – WELCOME DAY**

<b>8.30 – 9.00</b>	<b>Registration</b>	
<b>9.00- 11.15</b>	Introduction to Wind Energy: history, technology, market	<b><i>M. Kühn (UNIOL)</i></b>
<b>11.15 - 12.00</b>	<b>Brunch</b>	
<b>12.00 – 12.30</b>	<i>Opening Session</i>	
<b>12.30 – 14.00</b>	Introduction to Meteorology (1): Wind Resource Assessment	<b><i>L. Landberg (GH)</i></b>
<b>14.00 - 14.30</b>	<b>Coffee Break</b>	
<b>14.30 - 16.00</b>	Introduction to Meteorology (2): Forecasting	<b><i>I. Martí (CENER)</i></b>
<b>16.00 - 17.00</b>	<b>Coffee Break</b>	
<b>17.00 - 18.30</b>	Introduction to rotor and drive train design (1)	<b><i>M. Hansen (RISODTU)</i></b>
<b>20.30</b>	<b><i>WAUDIT Welcome Dinner :</i></b> <i>Restaurante Asador OLAVERRI</i> <i>C/ Santa Marta nº 4</i>	

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**Tuesday 18<sup>th</sup> May**

<b>8.30 - 10.00</b>	Introduction to rotor and drive train design (2)	<b><i>M. Hansen (RISODTU)</i></b>
<b>10.00 - 10.30</b>	<b>Coffee Break</b>	
<b>10.30 - 12.00</b>	Introduction to loads, safety and standards (1)	<b><i>J. Sørensen (AAU)</i></b>
<b>12.00 - 13.00</b>	<b>Brunch</b>	
<b>13.00 - 14.30</b>	Introduction to loads, safety and standards (2)	<b><i>J. Sørensen (AAU)</i></b>
<b>14.30 - 15.00</b>	<b>Coffee Break</b>	
<b>15.00 - 16.30</b>	Introduction to Electrical components and Grid Connection (1)	<b><i>S. Heier (UNIKS)</i></b>
<b>16.30 - 17.00</b>	<b>Coffee Break</b>	
<b>17.00 - 18.30</b>	Introduction to Electrical components and Grid Connection (2)	<b><i>S. Heier (UNIKS)</i></b>

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**Wednesday 19<sup>th</sup> May**

<b>8.30 - 10.00</b>	Introduction to societal aspects of wind energy (1)	<b><i>J. Zoellner (UNIMD)</i></b>
<b>10.00 - 10.30</b>	<b>Coffee Break</b>	
<b>10.30 - 12.00</b>	Introduction to societal aspects of wind energy (2)	<b><i>J. Zoellner (UNIMD)</i></b>
<b>12.00 - 13.00</b>	<b>Brunch</b>	
<b>13.00 - 14.30</b>	PhD research project management (1)	<b><i>C. Ferreira (TUDELFT)</i></b>
<b>14.30 - 15.00</b>	<b>Coffee Break</b>	
<b>15.00 - 16.30</b>	PhD research project management (2)	<b><i>C. Ferreira (TUDELFT)</i></b>
<b>16.30 - 17.00</b>	<b>Coffee Break</b>	
<b>End of the EAWE SCHOOL</b>		

**WAUDIT SCHOOL**

**Wednesday 19<sup>th</sup> May**

<b>17.00 – 18.00</b>	WAUDIT Workshop: individual project planning and design	<b><i>WAUDIT Participants</i></b>
<b>18.00 – 19.00</b>	WAUDIT Board Meeting	<b><i>Board Members</i></b>

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**Thursday 20<sup>th</sup> May**

<b>8.30 - 10.00</b>	Atmospheric Boundary Layer Theory	<b><i>F. Valero / G. Martínez (UCM)</i></b>
<b>10.00 - 10.30</b>	<b>Coffee Break</b>	
<b>10.30 - 12.00</b>	Quality assurance of micro-scale meteorological models	<b><i>M. Schatzmann (UNIHH)</i></b>
<b>12.00 - 13.00</b>	<b>Brunch</b>	
<b>13.00 - 14.30</b>	Atmospheric turbulence at various scales	<b><i>J. Peinke(UNIOI)</i></b>
<b>14.30 - 15.00</b>	<b>Coffee Break</b>	
<b>15.00 - 18.30</b>	Visit to CENERs Wind Test Farm	

**Buses for the visit to the Wind Farm will be at 15.15 outside the Building “El Sario” and take us to the Wind Farm.**

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**Friday 20<sup>th</sup> May**

<b>8.30 - 10.00</b>	Microscale numerical modelling of the ABL	<b><i>N. Sørensen (RISØDTU)</i></b>
<b>10.00 - 10.30</b>	<b>Coffee Break</b>	
<b>10.30 - 12.00</b>	Wind turbine wakes modeling	<b><i>J. Prospathopoulos(CRES)</i></b>
<b>12.00 - 13.00</b>	<b>Brunch</b>	
<b>13.00 - 14.30</b>	Offshore meteorology	<b><i>D. Heinemann (UNIOL)</i></b>
<b>14.30 - 15.00</b>	<b>Coffee Break</b>	
<b>15.00 - 16.30</b>	Introduction to measurement techniques	<b><i>M. Courtney (RISØDTU)</i></b>
<b>16.30 - 17.00</b>	<b>Coffee Break</b>	
<b>17.00 - 18.30</b>	Wind tunnel modelling of ABL	<b><i>S. Aubrun (U. Orleans)</i></b>