


Summer School

10 -14 October 2022

 Vigo, Spain

Mastering the Development of Climate Services

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UniversidadeVigo



The Summer School will be hosted in Vigo, Galicia, Spain, and co-organised by the Environmental Physics Laboratory at the University of Vigo, WEMC, WMO and ICS.

Taking place at Hotel Balneario de Mondariz, from Monday 10 October – Friday 14 October 2022. The Summer School will consist of three full days and two half days of lectures, group work and panel discussions throughout the week. You will hear from leaders in the energy, water and meteorology sectors. Members of the Scientific Committee include Alberto Troccoli (WEMC), Juan A. Añel (University of Vigo), Roberta Boscolo (WMO), Sue-Ellen Haupt (NCAR), and Laurent Dubus (RtE).

HOW WILL YOU LEARN

At the Summer School, you will learn about the importance of climate services for the energy and water sectors, understanding recent policy, scientific and technological developments. You will acquire theoretical and technical knowledge about seasonal forecasting and climate projections, and also understand the principles of service co-production and good practices for service delivery. As part of the training, you will have a practical assignment to develop a particular aspect of the service value chain, working in small teams to develop a your mini-climate service. Hearing from leading experts, you will learn about real-world applications of climate services and best practice approaches.

OBJECTIVES

Provide a broad view of available climate services for the energy sector

Explore stakeholder engagement, user requirements and climate service value

Provide training to participants to improve technical skills for co-producing climate services including data processing

Promote innovation for developing and delivering weather, water, and climate services to energy users including business models and networking opportunities with other sectors

ANY QUESTIONS ABOUT THE SUMMER SCHOOL ? PLEASE GET IN TOUCH :

Shelbie Walker for general enquiries shelbie.walker@wemcouncil.org

DAY 1. MONDAY 10TH OCT

SESSION 1- INTRODUCTION TO CLIMATE SERVICES AND SEASONAL FORECAST

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| 9:00-9:20 | Welcome Address | Alberto Troccoli, WEMC Juan Antonio Añel, University of Vigo Roberta Boscolo, WMO |
| 9:20-9:30 | Introduction | Alberto Troccoli, WEMC |
| 9:30-10:30 | User requirements for climate services | Laurent Dubus, RTE-WEMC |
| 10:30 - 11:00 BREAK & NETWORKING | | |
| 11:00-12:00 | Status of climate services for energy | Alberto Troccoli, WEMC Roberta Boscolo, WMO |
| 12:00-13:00 | Stakeholder engagement and value of climate services | |
| 13:00 - 14:00 BREAK - LUNCH | | |
| 14:00-15:00 | Physical modelling for climate services | Sue Ellen Haupt, NCAR |
| 15:00-16:00 | Data and information sources for climate services | |
| 16:00 - 16:30 BREAK & NETWORKING | | |
| 16:30-17:30 | Practical 1 | Students and Mentors |
| 19:30-20:00 ICEBREAKER | | |
| 20:00-21:00 DINNER | | |

DAY 2. TUESDAY 11TH OCT

SESSION 2- CLIMATE SERVICES & RENEWABLE ENERGY

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| 9:00-9:30 | Introduction | Alberto Troccoli, WEMC |
| 9:30-10:30 | The use of climate services in wind, solar and hydro power generation | Luis Prieto Godino, Iberdrola Mikel Illarregui, Acciona Sven-Erik Gryning, DTU |
| 10:30 - 11:00 BREAK & NETWORKING | | |
| 11:00-12:00 | Seasonal and subseasonal forecast for the energy sector | Juan A. Añel, University of Vigo |
| 12:00-13:00 | Climate projections for the energy sector | Xurxo Costoya, University of Vigo |
| 13:00-14:00 BREAK - LUNCH | | |

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| 14:00-15:30 | The use of climate services in wind, solar and hydro power generation | |
| 15:30-16:30 | Practical 2 | Students and Mentors |
| 13:00-14:00 BREAK - LUNCH | | |
| 17:00-18:00 | Practical 2 | Students and Mentors |
| 20:00-21:00 DINNER | | |

DAY 3. WEDNESDAY 12TH OCT

SESSION 3- TAILORING CLIMATE SERVICES AND BUSINESS MODELS

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| 9:00-10:00 | Multimodel combinations and skill of seasonal forecast | Kristian Nielsen, WEMC |
| 10:00-11:00 | Selecting the right projections and models | |
| 11:00 - 11:30 BREAK & NETWORKING | | |
| 11:30-12:30 | How to set up a climate service business | Francesca Larosa, UCL |
| 12:30 - 14:00 BREAK - LUNCH | | |
| 14:00-15:00 | What you need to know for harvesting wind and solar energy | Sue Ellen Haupt, NCAR |
| 15:00-18:00 | Practical 3 | Students and Mentors |
| 20:00-21:00 SPECIAL DINNER, GALICIAN ROMERÍA | | |

DAY 4. THURSDAY 13TH OCT

SESSION 4- CLIMATE SERVICES ACROSS SECTORS & FIELD TRIP

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| 9:00-9:30 | Introduction to the nexus | |
| 9:30-10:30 | Simulating and understanding meteorological impacts in agriculture | |
| 10:30 - 11:00 BREAK & NETWORKING | | |
| 11:00-12:00 | Climate services for textile sector | |
| 12:00-13:00 | Explore different ways to engage with users | |

13:00 - 14:00 BREAK - LUNCH

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| 14:00-18:00 | Field Trip to Belesar hydropower plant | |
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| 18:00-19:30 | Visit and break - winery in Ribeira Sacra | |
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20:00-21:00 DINNER**DAY 5. FRIDAY 14TH OCT****SESSION 5- HOW TO DESIGN A CLIMATE SERVICE**

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| 9:00-10:30 | Panel discussion: How to communicate climate science | |
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10:30 - 11:00 BREAK & NETWORKING

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| 11:00-13:00 | Elevator pitch of projects | |
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13:00-14:00 BREAK - LUNCH

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| 14:00-15:00 | Q&A | |
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| 15:00-16:00 | Closing | |
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This programme is indicative to illustrate course content but is subject to changes.