

REWATERGY Training Workshop 1

Hosted by Dr Pilar Fernández-Ibáñez and Prof Tony Byrne

Ulster University, School of Engineering, Jordanstown, Shore Road, BT37 0QB

Venue: Block 16, Room 16G45 and NIBEC labs

16 – 18 December 2019

Day 1 - Advanced principles of heterogeneous photocatalysis

Room 16G45

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| 09:00 – 09:10 | Welcome - Dr Pilar Fernandez and Prof Tony Byrne, Ulster University |
| 09:10 – 11:00 | Fundamentals of Heterogeneous catalysis – Laura Torrente, Cambridge University |
| 11:00 – 11:30 | Coffee break |
| 11:30 – 13:00 | Reaction mechanisms – Laura Torrente, Cambridge University |
| 13:00 – 14:00 | Lunch |
| 14:00 – 15:30 | Characterization of catalysts – Laura Torrente, Cambridge University |
| 15:30 – 16:00 | Coffee break |
| 16:00 – 17:30 | Heterogeneous catalysis in action – Laura Torrente, Cambridge University |

Day 2 - Reaction Engineering for water treatment

Room 16G45

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| 08:30 – 10:30 | Water Treatment Processes – Javier Marugán, University Rey Juan Carlos |
| 10:30 – 10:45 | Coffee break |
| 10:45 – 12:15 | Basic Reaction Engineering – Javier Marugán, University Rey Juan Carlos |
| 12:15 – 13:00 | Lunch |
| 13:00 – 14:30 | Application to Individual ESR Projects – Javier Marugán, Uni. Rey Juan Carlos |
| 14:30 – 15:00 | Coffee break |
| 15:00 – 16:30 | Application to Individual ESR Projects – Pilar Fernández, Ulster University |

Day 3 - Advanced characterization techniques of materials

Morning: Room 16G45; Afternoon: NIBEC labs

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| 09:00 – 10:00 | Fundamentals of photoelectrochemistry – Tony Byrne, Ulster University |
| 10:00 – 10:30 | Coffee break |
| 10:30 – 11:30 | Fundamentals of Raman and XPS – Adrian Boyd, Ulster University |
| 11:30 – 12:30 | Fundamentals of Microscopy – AFM, SEM, TEM – Patrick Lemoine, Alessio Morelli, Ulster University |
| 12:30 – 13:30 | Lunch |
| 13:30 – 14:30 | Photoelectrochemical measurements – Anukriti Singh; Jeremy Hamilton, Ulster University |
| 14.30 – 15:30 | Raman and XPS demonstration – Adrian Boyd, Ulster University |
| 15:30 – 16:00 | Coffee break |
| 16.00 – 17:00 | Microscopy demonstrations – Patrick Lemoine, Alessio Morelli, Preetam Sharma, Ulster University |
| 17:00 | Closure |

REWATERGY project has received funding from the H2020 program under the GA812574 - H2020-MSCA-ITN-2018

