

CARDIFF
UNIVERSITY

PRIFYSGOL
CAERDYDD

Day One
12 July

Cardiff University
Civil & Environmental
Engineering Virtual Summer
School 2022

Schedule

2.30-2.45pm - Welcome & Intro to Cardiff University

2.45-5.15pm - Session 1: Hydroenvironmental Research Centre

- Impacts of extreme conditions on coastal areas – Professor Shunqi Pan, Cardiff University
- Increasingly frequent extreme weather events urge the development of point-of-use water treatment systems – Professor Dawei Wang, Hohai University
- Natural Flood Management & applications – Dr Elizabeth Follett, Cardiff University
- Storm-induced flooding in coasts and estuaries - Professor Yongping Chen, Hohai University
- Recent development of marine renewable energy - Professor Jisheng Zhang, Hohai University
- Marine renewable energy (tidal barrages and lagoons; offshore waves and winds) – Dr Zhihua Xie, Cardiff University

5.25–6.05pm - Session 2: BRE Trust Centre for Sustainable Engineering

- Digital Twins for Engineering Performance management in the built environment - Jonathan Reynolds, Cardiff University
- Lifecycle Assessment towards Net Zero in the built environment - Dr Ali Ghoroghi, Cardiff University

6.05-6.45pm - Session 3: Applied & Computational Mechanics Group

- Vibration control and wave filtering using quasicrystalline phononic structures – Dr Lorenzo Morini, Cardiff University
- DIGIBRIDGE: Physics-informed Digital Twin supported Smart Bridge Maintenance – Dr Kai Zhao, Cardiff University

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Day Two
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Schedule

2.30 – 2.35pm - Welcome & Intro to Day Two

2.35-4.15pm - Session 4: Geoenvironmental Research Centre

- Resource Recovery from Waste: Towards a Circular Economy – Professor Devin Sapsford, Cardiff University
- Biogeotechnics and Electrokinetics – Dr Michael Harbottle, Cardiff University
- Thermo-Hydro-Mechanical Behaviour and Modelling of Soils - Professor Snehasis Tripathy, Cardiff University
- Biocementation in soils and rocks – Dr He Jia, Hohai University

4.25-6.05pm - Session 5: Materials for Life

- Biomimetic Materials for resilient structures – Dr Diane Gardner, Cardiff University
- Simulation of cement healing systems – Dr Brubeck Freeman, Cardiff University
- Life Cycle Assessment and its application to novel construction materials – Dr Riccardo Maddalena, Cardiff University
- Sustainable Construction Materials towards Carbon Neutrality - Dr. Ming-Zhi Guo, Hohai University

6.05-6.20pm - Summer School Close & Goodbye

