ECEL 2021 Pre-Conference Workshop

Wednesday 27th October 2021, 14:00 - 16:00
Hosted by University of Applied Sciences HTW Berlin, Germany

Experiences in developing and implementing online remote laboratory and simulations for eLearning
Led by: Dr Sheryl Williams, Loughborough University, UK

In this session I will share our experience in the development, implementation and evaluation of our bespoke remote laboratory and simulations which have been successfully used by HE engineering students during COVID-19 remote learning. This project innovatively combines ICTs with engineering technologies to produce an effective teaching and learning tool for elearning/remote learning.

The session will provide delegates with opportunities to discuss the life cycle of such a project from rationale, development and implementation processes and crucially will seek to share lessons-learned including challenges and successes. The session will guide participants through a series of interactive activities and discussions. At the end of the session, delegates will be informed and inspired to design and develop similar remote labs for their students.

Activities in the workshop include:

- A series of interactive activities and discussions to inspire the development of a similar project for their students.
- Discussion related to the process, the challenges and success of the project.
- Gain the tools to implement the concepts presented to inspire ideas for their own projects and using the lessons-learnt to successfully develop similar projects.

Key messages delegates will take from the session are:

- Participants will leave the session inspired on the possibilities of creating a remote laboratory or similar activity for their elearning/remote learning engineering students.
- To challenge participants to think of innovative ways to aid teaching & learning in HE elearning/remote courses.
- Participants will gain an insight into the process, the lessons learnt, the challenges and the successes of developing a remote laboratory or similar activity for HE engineering elearning/remote students.

Dr Sheryl Williams is a renewable energy specialist, Senior Fellow of the Higher Education Academy and an award-winning Distance Learning Manager. Sheryl leads flexible and distance learning programme in Wolfson School. She won the 2015 eLearning Excellence Award at the 14th European Conference on eLearning for the Photovoltaic Remote Laboratory. She pioneered innovative use of ICTs in MSc in Renewable Energy System Technology via distance Learning; and mentored and trained staff.

To gain the most out of this session you will need a smartphone, tablet, laptop or similar devices as the interactive activities will require you to go online.

The workshop will be held the day before ECEL 2021. The cost of attending the workshop is £50.

To register go to: [https://www.academic-conferences.org/conferences/ecel/ecel-registration/](https://www.academic-conferences.org/conferences/ecel/ecel-registration/) and for more information contact annette@academic-conferences.org

The workshop is linked to [Mini-track on Experiences in Developing and Implementing Online Remote Laboratory and Simulations for e-Learning](https://www.academic-conferences.org/conferences/ecel/ecel-call-for-papers/ecel-mini-tracks/) at the 20th European Conference on e-Learning (ECEL 2021) for more details and to submit to this session see: [https://www.academic-conferences.org/conferences/ecel/ecel-call-for-papers/ecel-mini-tracks/](https://www.academic-conferences.org/conferences/ecel/ecel-call-for-papers/ecel-mini-tracks/)