



UNIVERSITY
OF HULL

SCHOOL OF
NATURAL SCIENCES

Nyholm Lecture

Applying Pedagogic Research to Improving Practice: Learning in the Laboratory

Dr. Michael Seery

April 27th

AMB-TR1

12:00–13:00

Pedagogic research is often grounded in teaching practice: exploring the context of current teaching paradigms and seeking to make them better. In science disciplines, laboratory work is both a core component of degree structure as well as a common source of contention from students about the cohesion of their experience.

The aim of this presentation is to draw together two strands – thinking about learning in the laboratory from a curriculum design perspective, and thinking about how to engage in pedagogic research reviewing this work as it rolls out. Strategies for developing research approaches are identified, with a focus on the complementary roles of graduate teaching assistants, technical staff, academics, and at the centre, students. While the focus of this presentation is a case study in chemistry education, it is hoped it will offer insight into laboratory learning and pedagogic research in a variety of disciplines.



Michael Seery was until recently Professor of Chemistry Education and Director of Teaching in the School of Chemistry at University of Edinburgh.

His research interests are grounded in laboratory education and the role of digital education in supporting student learning, and is especially focussed on the research-practice interface. He was awarded the 2021 RSC Nyholm Prize for Education for his work in laboratory education and for providing leadership and support to others carrying out education research. In 2022, Michael joined Cardiff Metropolitan University as Head of Digital Learning.

