



Competence development from lab work and fieldwork

Online seminar - March 8, 2021

Programme

12:20-12:30 **Welcome**
By SIG coordinator and Associate Professor Frederik V. Christiansen, University of Copenhagen, DK

12:30-13:10 **Multidimensionality of learning in the laboratory: Insights from a systematic review**
By Postdoc Hendra Agustian, University of Copenhagen, DK and Research Assistant Maja Ingerslev Pedersen, University of Copenhagen, DK

Curriculum and instruction considered, what do students actually learn in and from teaching laboratories at university level? How can a comprehensive mapping of learning outcomes inspire laboratory curriculum design and instruction?

Chair of Q&A: Associate Professor Rie Troelsen, University of Southern Denmark, DK

13:10-13:20 Break

13:20-14:00 **Implementing digital badging to assess hands-on laboratory skills**
By Professor Marcy Towns, Purdue University, USA

Digital badges hold potential for use in the undergraduate curriculum as a means to assess hands-on laboratory skills. Badges are a set of tasks created using principles of evidence-centered design, and they allow instructors to draw conclusions based on authentic evidence of students' knowledge, skills, and abilities. This type of assessment is valuable across the science curriculum and undergraduate laboratory.

Chair of Q&A: PhD student Laura Finne, University of Copenhagen, DK

14:00-14:15 Break

14:15-15:00 **The emotional geographies of place: Developing innovative learning and teaching strategies for international fieldwork**

By Dr. Alan Marvell, Senior Lecturer, University of Gloucestershire, UK (presenter) and Senior Lecturer David Simm, Bath Spa University, UK

Students experience a wide range of experiences and emotions when doing short international field courses. Based on a study of a Geography field trip to Barcelona, Spain, this paper examines the influences on the affective domain and the consequent impacts on students' engagement with learning, as well as performance. Innovative learning and teaching strategies, such as co-production of the field trip, teaching of student peers and self-reflection, can be utilised to help students to make sense of their field encounters and positionality as well as developing a richer sense of place. Finally, the application of these approaches to affiliated subjects will be discussed.

Chair of Q&A: Associate Professor Lene Møller Madsen, University of Copenhagen, DK

15:00-15:15 Break

15:15-16:00 **Panel discussion**

Panel:

- Postdoc Hendra Agustian, University of Copenhagen, DK
- Professor Marcy Towns, Purdue University, USA
- PhD Rie Hjørnegaard Malm, University of Oslo
- Professor Avi Hofstein, Weizmann Institute of Science, IL

Panel chair: Professor Emeritus Jens Dolin, University of Copenhagen, DK

The seminar is hosted by the **Special Interest Group (SIG)** "Laboratory and Fieldwork Learning" under Danish Network for Educational Development in Higher Education.

[Sign up for the seminar](#)

Deadline: Wednesday, 3 March 2021

The event will be hosted on Zoom. Registered participants will receive a link a few days prior to the event.

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