

Learning Forum 2017

Time: Tuesday October 24th 09:00 – Thursday October 26th 12:00

External lecturers:

1. Berit J. Kjeldstad



Title of lecture: *Trends in Higher Education and the effect of teaching and learning*

Berit J. Kjeldstad has a professional background as a Professor of Physics. She was Head of the Department of Physics at NTNU (2006-2009) and Pro-Rector for Education at NTNU (2009-2017). She is now Director for the Education Quality Division at NTNU and chair of the UNIS Board of Directors for UNIS.

2. Peter van Marion



Title of lecture: *Student fieldwork: Between skepticism and enthusiasm*

Title of workshop: *Field teaching - how to make it work?*

Professor *emeritus* Peter van Marion has a professional background as a science and mathematics teacher in secondary school and as a teacher trainer and researcher at the Norwegian University of Science and Technology (NTNU). He has wide experience from field work in university courses in biology and in-service courses for teachers in science, biology and geography. He is the author of various text books in science and science education. From 2008 until 2015 he was the Director of the University's Resource Centre for Mathematics, Science and Technology Education. From 2009 until 2012 he was the coordinator of a 7FP EU-funded project with partner universities in 15 European countries, which focused on inquiry-based learning in science. Currently, he runs a school-based professional development program for science and mathematics teachers.

3. Roger Greenaway



Title of lecture: *Transforming Lectures into Participatory Active Learning*

Title of workshop: *Active methods for engaging learners and enhancing learning*

Roger Greenaway is a training consultant who is frequently found training people in ways of making experience-based learning more participatory, dynamic and effective. Roger specialises in active reviewing techniques (or debriefing skills) and in how these and other strategies can facilitate learning and the transfer of learning. During the last 20 years Roger has been working with educational and training organizations, departments and networks in 35 countries. Roger's PhD was a study of Powerful Learning Experiences in Management Learning and Development (1995). He now writes in more

accessible and practical ways in his free newsletter Active Reviewing Tips at <http://reviewing.co.uk>. Roger lives in Scotland. He mostly works in the UK, Europe and Asia. His work also takes him to Africa, North and South America and Australia.

4. Ivar Nordmo



Title of workshop: *Can students learn more - or more essential things - without more teaching or more work?*

Ivar Nordmo is Associate Professor in University Pedagogy at the Department of Education, University of Bergen. He has 25 years of experience in various parts of Faculty Development as course designer and teacher, as consultant on program design and teaching & learning for various departments and the central administration at UofB, and for the last 10 years as a researcher mainly interested in how to best design for and facilitate learning processes, including the design of learning spaces. He is part of the iEarth team and is involved in the merit system for excellent teaching in Bergen. Nordmo is director of the Program of University pedagogy and Faculty Development at UofB, and holds an adjunction position at UNIS where he is responsible for the pedagogical training program.

5. Øyvind Fiksen



Title of lecture: Excellent teachers? Rewarding individuals? Measuring teaching practice?

Øyvind Fiksen is a professor at UiB, working mainly with theory and models of marine ecology, populations and individuals. During the period 2013-2015 he was Head of Education and leader of the Programme Board at BIO, and also responsible for the WP 'A collegial learning culture among teachers' in bioCEED. In 2017, he was in the first batch of teachers rewarded status as 'Excellent teaching practitioner' at the University of Bergen. Over the last years he has taken an experimental approach to his own courses in ecology and evolution, and contributed extensively to meetings, courses and collegial discussions on teaching and learning. He advocates research inspired educational practices, collegial collaboration and life-long learning experiences for teachers.

6. Anne-Laure Simonelli



Title of lecture: *Active learning creating video tutorials*

Anne-Laure Simonelli is a Postdoctoral Researcher at bioCEED in Bergen and is involved in several projects where she aims to identify, develop and evaluate innovative pedagogical activities in higher education. Her research field is on the perception of transferable skills acquired through different student-active learning activities, including internships and practical experience. Study groups include both students and educators/supervisors, both at university and in the workplace. One part of this research includes the evaluation student awareness of the role they can play in the society when entering the workforce as a biologist. Further, she implement and

evaluate the use of digital technologies as learning and teaching tools in different BSc- and MSc-level courses.

7. Sigmund Andersen



Title of lecture: Slow learning in Nature – Educating professional nature guides

Sigmund Andersen is an Assistant Professor at UiT, The arctic university of Norway and responsible of The Arctic Nature Guide Program at Svalbard. He is an international mountain guide (IFMGA) and has more than fifteen years of experience as a guide on Svalbard. He has a master in psychology from

NTNU.

Internal speakers:

The Director of UNIS – Harald Ellingsen: Harald will open the Learning Forum and he will lead the panel discussions during day 1 and sum-up on day 2

Leader of Academic Affairs – Ane Hammervoll Bjørsvik: Ane will update the participants on the UNIS Quality System for Education; different type of evaluations, and sum-up of evaluations 2017. She will also be the meeting leader during the LF

Associated professor Pernille Bronken Eidesen AB and deputy leader of bioCEED: Pernille will, together with Øyvind Fiksen and Anne-Laure Simonelli (BIO, Bergen), present status of bioCEED, ongoing projects and the merit system for excellent teaching in Bergen

Head of AB Department - Børge Damsgård: Børge will present one of the UNIS group reports from the bioCEED Collegial Teaching and Learning course; *“Are learning outcomes affected by course intensity and workload?”* The group collected UNIS data from spring 2017 and has also performed a descriptive analysis of all 10 ECTS courses to see similarities and differences in workload (weeks, amount of curriculum, no. of hours etc.)

Associated professor Lena Håkansson, AG: Lena will share some of her field teaching methods and give a short presentation of iEarth – Centre for Integrated Earth System Education

Scientific Department leaders by Børge Damsgård (AB), Hanne Hvidtfeldt Christiansen (AG), Dag Lorentzen (AGF) and Arne Aalberg (AT): reflect and sum-up day 1

Workshops:

1) Field teaching - how to make it work?

Lead by Peter van Marion

In this workshop we will discuss how our approaches to and the methods used during our field teaching affect what students actually do and learn during fieldwork. Participants will be asked to give a brief presentation of an example of their field teaching from their own teaching practice, and to share experiences and ideas about failures and successes in field teaching.

2) Active methods for engaging learners and enhancing learning

Lead by Roger Greenaway

In this workshop we will explore how active methods can be applied at different stages of learning. 'Activity Map' and 'Sim Survey' are useful for quickly discovering existing knowledge, skills or experiences relevant to the topic being studied. 'Storyline' is a timeline that helps students reflect on how they learn, get stuck and unstuck or respond to challenges in their studies or work. 'Horseshoe' and 'Turntable' help to generate discussion by bringing out different perspectives. 'And Back to the Future' helps students think and talk through inner and outer resources that will help them on their next study task or learning goal. How can such methods be adapted and applied in your own work?

3) Can students learn more - or more essential things - without more teaching or more work?

Lead by Ivar Nordmo

To help us answer this question we will explore two theories related to learning. The first theory introduces "*Threshold concepts & Troublesome knowledge*" as a way to identify core concepts and practises within disciplines that students tend to struggle to understand. This theory can point to some parts of curricula that teaching and exercises especially need to focus on. The second theory introduces a way to gradually increase the quality of students' work through structured formative feedback. This theory can help us towards choosing effective teaching and learning activities in a course. The workshop starts with a short presentation and brief discussion of the two theories. Based on the two theories, participants will work on developing their own courses in small groups or alone. The workshop will end with short presentations from participants of possible improvements in courses.

PROGRAM

Learning Forum 2017 – 24th – 26th of October 2017

Day 1 – 24 October:

- 09:00 – 09:30 Opening by the Director of UNIS, Harald Ellingsen
- 09:30 – 10:30 Berit Kjeldstad – Director for the Education quality Division at NTNU and Chair of the UNIS Board of Directors will share her thoughts on quality in education, and more specifically, how to facilitate the best possible learning for students
- 10:30 – 10:45 Break
- 10:45 – 11:15 Ane Hammervoll Bjørsvik, Head of Academic Affairs, will present the UNIS Quality System for Education; different type of evaluations, and sum-up evaluations 2017
- 11:15 – 12:00 Lena Håkansson, associated professor from AG, will present iEarth – Centre for Integrated Earth System Education and will also share some of her field teaching methods
- 12:00 – 12:30 Sigmund Andersen, assistant professor from the Arctic Nature Guide study (ANG) will presents his thoughts and experiences from teaching out in the field with the title *“Slow learning in Nature – Educating professional nature guides”*
- 12:30 – 13:15 Lunch (not organized by Learning Forum)
- 13:15 – 14:30 bioCEED – Status, ongoing projects and merit system for excellent teaching in Bergen
- 14:30 – 14:45 Break
- 14:45 – 15:15 Børge Damsgård, Head of AB Department will present the report from the bioCEED Collegial Teaching and Learning course; *“Are learning outcomes affected by course intensity and workload?”*
- 15:15 – 16:00 Panel with the Director of UNIS, Berit Kjeldstad and UNIS Educational leaders (Scientific Department leaders) reflect and sum-up the day

Day 2 – 25 October:

- 08:30 – 09:15 *“Teaching in the field”* by professor emeritus Peter van Marion
- 09:15 – 09:30 Break
- 09:30 – 10:15 *“Transforming Lectures into Participatory Active Learning”* by Roger Greenaway
- 10:15 – 10:30 Break
- 10:30 – 12:30 Workshops 1-3
- 12:30 – 13:15 Lunch – will be served for everybody at the UNIS cantina
- 13:15 – 15:15 Workshops 1-3

15:15 – 15:30 Break

15:30 – 16:00 The Director of UNIS, Harald Ellingsen, sums up day 2; discussions, oral evaluation

19:00 → Buffet at UNIS

Day 3 – 26 October:

09:00 – 12:00 Departmental meetings

It is recommended to bring along student counselors, especially to address administrative issues. Each department can decide the topic of the meetings and whether they want to extend the meeting throughout Thursday or Friday.

→ *No lunch served, the department may organize something themselves.*

There will only be one lunch and one dinner served for the participants of Learning Forum 2017. Both meals will be served on Wednesday 25 October.