

NorSEd: Nordic research network in Science Education

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We are happy to inform NorDiNa's readers about a newly established Nordic research network in science education, entitled NorSEd. With financial support from NordForsk, NorSEd will strengthen research co-operation across the Nordic countries and contribute to high quality research training for PhD students in science education.

The financial support of 300 000 Nkr pr year runs over a period of three years (2010-2013). These resources will be used for developing research workshops and joint courses at the doctoral level across the Nordic countries, and for travel grants for PhD students who want to attend specified courses at other institutions in the Nordic countries (shared courses). The specified courses and other network activities offered by NorSEd are listed below. The financial support from NordForsk also provides opportunities to cover some of the expenses for a research stay in another Nordic country for both PhD students and more established researchers.

STEERING GROUP

The steering group for NorSEd consists of:

- Head of Dept. Dr. Jens Dolin, University of Copenhagen, dolin@ind.ku.dk
- Professor Allyson Macdonald, University of Iceland, allyson@hi.is
- Professor Jari Lavonen, University of Helsinki, jari.lavonen@helsinki.fi
- Associate Professor Berit Bungum, NTNU, berit.bungum@ntnu.no
- Senior Lecturer Anita Wallin, University of Gothenburg, anita.wallin@ped.gu.se
- Professor Phil Scott, Leeds University / NTNU, P.H.Scott@education.leeds.ac.uk

The network is co-ordinated by Berit Bungum.

NETWORK ACTIVITIES

Autumn 2010:

a) Shared course: *Teaching, Learning and Communication in Science*.

The course presents a broad range of current perspectives on the teaching and learning of science, with particular focus on the role of language and communication.

Course dates: September 2-3, October 28-29, January 14 (2011).

Host: NTNU.

b) Shared course: *Research and teaching of science: improving the synergy*.

The course covers current research paradigms and praxiologies for didactics in school science as well as science teaching at university level, with a focus on the design of study programs and relationships between theory and praxis in a science education perspective.

More information: http://www.ind.ku.dk/english/course_overview/PhD_Courses/researchand-teachingofscience/

Host: University of Copenhagen.

Spring 2011:

c) Workshop: *The use of video documentation as a research tool in science education*.

The workshop provides for exchange of experiences, perspectives and results in using video in classroom-based research, including the use of available software. The workshop will include presentations and advice from international experts in the field.

Host: University of Gothenburg.

Autumn 2011:

d) Joint course: *Improving Science education by Design Based Research (DBR)*.

The course presents DBR as a methodological framework for designing an artefact in an education context, in order to provide educational knowledge for more intelligible praxis in science teaching. The course elaborates on the various aspects and phases of DBR with extensive examples and also includes a workshop on scientific writing for PhD students and new researchers.

Host: University of Helsinki.

Spring 2012:

e) Shared course: *Science and Sustainable Education*.

The course relates to the goals of the UNESCO Decade of Education for Sustainable Development 2005-2014. It presents perspectives and achievements on how science can form part of education for sustainable development.

Host: University of Iceland.

Autumn 2012:

f) Workshop: *Research on teaching resources in science*.

The workshop includes presentations and discussions on research on textbooks, learning in science centres, outdoor education, and the use of ICT in science education.

Host: To be confirmed.

g) Joint course: *The history and philosophy of science: Implications for science teaching*.

The course will present a range of perspectives and case studies on the history and philosophy of science, and discuss their relevance and implication for science teaching in light of the current focus on the nature of science as part of the science curriculum.

Host: To be confirmed.

Spring 2013:

h) Seminar: *A Nordic Profile on Science Education*.

The seminar will draw on experiences from the entire network period, and lay the foundation for further cooperation in research. The seminar includes a workshop on scientific writing for PhD students and new researchers.

Host: To be confirmed.

REGISTRATION AND APPLICATION

In order to register for a course or workshop, you will need to contact the responsible university (see contact information in the list of activities).

Applying for grants from NorSEd is a separate procedure which has to be undertaken on a specific form. Deadline for applications are **May 15th** and **November 15th** each year for events running the following term (Autumn / Spring). For PhD student exchanges, the same deadlines are in operation, but you may apply at an earlier deadline than just prior to your stay in order to better plan your work abroad.

Applications will be evaluated by the steering group based on each applicant's stated purpose for participation, but also with a desire to achieve a representative balance of participants with regards to gender, countries and fields of work.

Note that you may only apply for grants for participating in the specified NorSEd activities. At the same time, you may participate in an activity (if a place is available) even if you don't apply for, or receive, a grant.

We are looking forward to receiving your application, and to further developing Nordic science education research within NorSEd!

For more information and application form, see <http://www.ntnu.no/fysikk/norsed>



Naturvetenskap som kunskap och kultur

Linköpings universitet, 14-16 juni 2011

För tionde gången anordnas Nordiskt Forskar Symposium om Undervisning i Naturvetenskap, denna gång i Linköping. Tiden för konferensen är 14 – 16 juni 2011 och äger rum på Nationernas Hus, som ligger centralt i Linköping.

Sista dag för insändande av abstract är 1 februari 2011.

Du kan läsa mer på www.liu.se/nfsun2011 och om du har frågor kan du skicka e-post till nfsun@ibl.liu.se

Program och ytterligare information kommer att läggas ut på hemsidan efter hand.

Välkommen till Linköping och NFSUN 2011.

