

CURRICULUM VITAE

- Name:** **Doris Jorde, Ph.D.**
Tåsen Terrasse 30, 0873 Oslo Norway
Tlf. 22182180
- Position:** Professor in Science Education
Vice Rector - Internationalization
University of Oslo, Norway
Professor II – NTNU, Science Education (20%)
- Institution:** Institutt for lærerutdanning og skoleutvikling (ILS)
Department of Teacher Education and School Development
P.b. 1099 Blindern
Universitetet i Oslo, 0316 Oslo, Norway
dorisj@ils.uio.no
- Personal:** Born 1952, American citizen, married to Alf Sandsør, two children (1985, 1987), residency in Norway since 1984
- Education:** Doctor of Philosophy, Science Education
University of California, Berkeley, U.S.A. (1984)
Regents Scholarship recipient, 1982-83
Thesis: An Ethnographic Study of an Urban High School: Science in the School Culture
- Master of Science, Plant Pathology
University of California, Berkeley, U.S.A. (1980)
Regents Scholarship recipient, 1978-80
- Bachelor of Science, Microbiology
California State University, Fresno, U.S.A. (1975)
Graduation with highest honors
- Experience:**
- | | |
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| 2009 -13 | Vice-Rektor, University of Oslo with responsibility for internationalization |
| 2005 - 08 | Vice-Dean of Studies, Faculty of Education, University of Oslo, Norway |
| 2008 - 12 | Scientific leader – EU project, “S-Team” |
| 2008 - 10 | Project leader – EU project, “Mind the Gap” |
| 2003 - 05 | Director of Research, National Centre for Science Education (Senter for opplæring i naturfag) |
| 2000- | Professor, Science Education, Department of Teacher Education and School Development (ILS) University of Oslo, Norway |

- 2000-05 Consultant: Nobel Virtual Science Museum, Stockholm
- 2000- Project leader, Viten <http://viten.no>
- 1998-99 Visiting Professor, Department of Education, University of California, Berkeley, CA
- 1992-02 Associate Professor, Science Education, Department of Teacher Education and School Development (ILS), University of Oslo, Norway
- 1989-92 Research fellowship, Norwegian Council for Science and the Humanities (NAVF)
- 1984-88 Researcher (Assistant Professor), Center for Science Education, University of Oslo, Norway
- 1980-84 Research Associate, Department of Plant Pathology, University of California, Berkeley, California, U.S.A.
- 1975-80 Research Associate, Department of Plant Pathology, University of California, Berkeley, California, U.S.A.

Recent Publications

Gericke, Niklas, Hagberg, M. and Jorde, D. (2009) Students' understanding of the use of multiple models in Swedish biology textbooks. The importance of conceptual change and incommensurability between models. *International Journal of Science Education* (submitted).

Slotta, J. and Jorde, D. (2008): Learning from our peers in international exchanges: When is it worth doing, and how can we help it succeed? *International Journal of Science Education*. (submitted)

Jorde, D., van Marion, P. and Strømme, A. (2008): Biologi – et fag for framtiden. In *Biologididaktikk*. Peter van Marion and Alex Strømme (eds). Høyskoleforlaget, Norwegian Academic Press.

European Commission. Member of the High Level Group on Science Education. (2007): *Science Education NOW: A renewed Pedagogy for the Future of Europe*. European Commission.
http://ec.europa.eu/research/science-society/document_library/pdf_06/report-rocard-on-science-education_en.pdf

Nuffield Foundation Report (2008). *Science Education in Europe. Critical Reflections*. Contributor. Jonathan Osborne and Justin Dillon (Eds).
http://www.nuffieldfoundation.org/fileLibrary/pdf/Sci_Ed_in_Europe_Report_Final.pdf

Jorde, D (2007): A Box of chocolates: On making choices to become a science educator. In *The culture of Science Education: Its history in person*. Kenneth Tobin and Wolff-Michael Roth (eds). Sense Publishers: Rotterdam.

- Jorde, D. and Mork, S. (2007): The contribution of information technology for inclusion of socio-scientific issues in science: the case of wolves in Norway. In *The Re-emergence of values in Science*. Deborah Corrigan, Justin Dillon and Richard Sunstone (Eds). Sense: Rotterdam.
- Mork, S. M., & Jorde, D. (2005). Hva må til for at lærere skal bruke digitale læremidler? Erfaringer fra Vitenprosjektet. *Norsk Pedagogisk Tidsskrift* 89(1).
- Clark, Douglas and Doris Jorde (2004): Helping Students Revise Disruptive Experimentally Supported Ideas about Thermodynamics. *Journal of Research in Science Teaching*. *Int. J. Sci, Educ.*, vol 41, no. 1, 1-23.
- Frøyland, Merethe and Doris Jorde (2004): Searching for Silver: A model for teaching geology at primary level. *Primary Science and Technology Today*, Issue 24, p. 21-27.
- Mork, S. M. and Jorde, D. (2004). "*We know they love computers, but do they learn science? A study about the use of information technology and controversy in science instruction.*" *Themes in Education*, 5(1), 69-100.
- Slotta, J.D., Jorde, D. & Erlien, W. (2004). International collaborations in a Web-based inquiry science environment: Promoting cross-cultural research and collaborative curriculum. Paper presented to the annual meeting of the National Association for Research in Science Teaching (NARST). Mar. 31-Apr. 4. Vancouver, BC, Canada.
- Jorde, D. and Bungum, B., Eds. (2003). *Naturfagdidaktikk. Perspektiver, forskning, utvikling.*, Gyldendal Norsk Forlag.
- Jorde, D. (2003). *The role of information technology in teaching and learning*. Jorde, D. and Bungum, B. *Naturfagdidaktikk. Perspektiver, forskning, utvikling*. Oslo, Gyldendal Norsk Forlag.
- Jorde, Doris; Alex Strømme, Øystein Sørborg, Wenche Erlien and Sonja M. Mork. (2003). *Vitruval Environments in Science*. *Viten.no*. Research Report #17, ITU skriftserie. Unipubskriftserier, UiO.
- Jorde, Doris (2002) Good Practice in Using the Internet and Information Technology in Teaching and Learning Science. Nobel Symposium 120 - Vitruval Museums and Public Understanding of Science and Culture, May 26-29, 2002 Stockholm. <http://www.nobel.se/nobel/nobel-foundation/publications/symposia/ns120-program.html>
- Jorde, Doris; Slotta, Jim; Scheepens, Roel (2002) International Perspectives on Web-based Inquiry Projects. Wise Partnerships with Norway, The Netherlands and USA. NARST paper symposium, New Orleans, USA.
- Slotta, Jim and Doris Jorde (2002) How American and Norwegian Teachers Customized the WISE Learning Environment to Improve its Value and Validity. Paper presentation, AERA, New Orleans, USA.
- Niedderer, Hans; Jorde, Doris; Tiberghien, Andree; Fisher, Hans; Goldberg, Fred; Otero, Valerie; Sander, Florian; Strømme, Alex; Vince, Jaques. (2002) Research on the use of Information Technology in Science. Invited symposium and invited paper, ESERA

- proceedings, 2001, Thessaloniki, Greece.
- Jorde, Doris and Jim Slotta (2001) Implementing a computer based curriculum in the science classroom. A comparative study of teachers in Norway and the United States. Invited paper, ESERA, Thessaloniki, Greece.
- Frøyland, Merethe and Doris Jorde (2001): Searching for Silver – Multiple experiences in multiple settings as a way of increasing understanding in science. *International Journal of Research in Science Teaching*. (accepted)
- Frøyland, Merethe and Doris Jorde (2001): The Museum as an Extended Classroom for Earth Science Teaching. *Journal of Research in Science Teaching*. (submitted)
- Jorde, Doris (2001): En rigid skole hemmer IKT. *Horisont – Næringspolitisk tidsskrift (NHO)* nr. 3/2001.
- Jorde, Doris (2000): Knowledge Integration Environment: reactions and comments. Invited commentary for *International Journal of Science Education*.
- Jorde, Doris and James D. Slotta (2000): Introducing the Web-Based Integrated Science Environment (WISE) into Norwegian schools – Collaborative Research Between The University of California, Berkeley and Norway. Paper presented at the National Association for Research in Science Teaching (NARST), New Orleans, U.S.A.
- Jorde, Doris, Jim Slotta and Alex Strømme (2000): International Comparison of an Internet Curriculum: A study Norwegian and US Classrooms. Paper presented at the National Association for Research in Science Teaching (NARST), New Orleans, U.S.A.
- Douglas Burton Clark and Doris Jorde (2000): Scaffolding Knowledge Integration Through Re-Explanation and Pivotal Cases. Paper presented at the National Association for Research in Science Teaching (NARST), New Orleans, U.S.A.
- Jorde, Doris and Strømme, Alex (2000): Internet project pages for WISE-Norway.
<http://viten.no>
- Harbo, Torstein and Doris Jorde (2000): Comparative Education in Current Educational Studies: four Nordic universities in Context. *Comparative Education*, vol 36 No. 2.
- Linn, Marcia and Doris Jorde (1999): Designing the curriculum for student learning: A research agenda. Position paper for the Second International Technology in Education Study (SITES) Stanford, Ca, U.S.A.
- Henriksen, Ellen and Doris Jorde (1999): High-school students' understanding of radiation and the environment – can museums play a role? *Science Education*.

Research and Development Projects

- 2006- PISA+
- 2004-6 Viten Videre i Verden

- 2002-03 “Skole for digital kompetanse. Om fremtidig behov for bredbånd i utdanning”
En utredning for programstyret i HØYKOM. . Member: arbeidsgruppe.
- 2001- **Viten.no** project leader
- 2001- STEDE (Science Teacher Education Development in Europe Network).
Curriculum and didactical research directed towards education for scientific literacy.
- 2001 National Science Foundation Project on Informal Learning Environments – connection between WISE, UC Berkeley, Exploratorium, The London Zoo, Kings College London and University of Oslo.
- 2000 The Web-Based Integrated Science Environment in Norway (WISE)
- 2000 ICASE/CEFIC International Evaluation Committee. Education – Industry Partnerships Conference. York, England
- 1998 Rammeplan for naturfag m/miljølære i førskolelærerutdanning – member
- 1997 Rammeplan for naturfag in læreutdanning - member
- 1997 Matematikk, naturvitenskap og teknologi – tiltak for å styrke disse fagområdene i norsk utdanning (Tveitereidutvalget)
- 1997 Metodisk veiledning i natur- og miljøfag (L97) member
- 1995-96 Natur- og miljøfagplan gruppe (L97) member
- 1994-95 Naturfagutredningen (KUF)- member
- 1993-6 Third International Science and Mathematics Study - Case study analysis of science and mathematics teaching in 6 countries (SMSO).
- 1994-6 OECD science project leader: Science, Math and Technology Education Project. Comparison of teaching in 15 OECD countries. The Norwegian science study concentrated on diagnostic evaluation methods at the junior secondary level.
- 1984-92 Project leader, Primary Science project in Norway. Analysis of the current status of primary science education, development of curriculum materials based on pupil and teacher needs, and pre- and in- service science teacher education.
- 1989-92 Co-leader, Project for the evaluation of science in Norwegian schools
- Research coordinator, Teknoteket - A science center in Norway. Development of science exhibits and curriculum materials for school classes and public. University of Oslo representative to the Board of Directors of Teknoteket.

- 1988-92 Norwegian Council for Science and the Humanities (NAVH), Representative to the Board of Directors for the program for school related research (varamedlem for Professor Svein Lie later Vivi Ringnes), Program for utdanningsforskning – PUF
- 1989-1990 Consultant to the Second African Development Fund Education Project in Zambia
- 1989-1991 Norwegian representative to INESTE (International Network in Science and Technology Education) UNESCO.

Doctoral dissertations

Inquiry learning in Biology. Majken Korsanger, Adviser
 Inquiry learning and assessment in Chemistry, Kirsten Fiskum, Advisor
 Gifted students in science classrooms. Bård Knudsen, Advisor
 PISA+ science classroom study. Nine Arnesen, Advisor
 Use of animation in science instruction. Torunn Strømme, Advisor
 Thinking about science as a career. Siv Almenningen, Advisor
 Uteskolen. Eli Munkeby, Advisor
 Use of digital media in science teaching. Jardar Cyvin, Advisor
 The public understanding of Gene Technology. Viten.no as a means of promoting understanding. (Helene Berg). Adviser

Science versus School-Science. (Niklas Gerike) 2009, completed

Rom for deltakelse. En studie av interaksjon og kommunikasjon in matematikkundervisningen (Åse Streitlein) 2006, completed

ICT in Science Education. Exploring the digital learning materials in viten.no (Sonja Mork), 2005, Completed.

Constructivist perspectives on learning in formal and informal settings (Ellen Henriksen) 1999. Dr.Scient in realfagdidaktikk. Completed

Museumsformidling av geologi (Merethe Frøyland) 2002. Dr. Scient i realfagdidaktikk. Completed

Ulike verdensbilder hos studenter i helsefaglig undanning – er et naturvitenskapelig verdensbilde en begrensning eller en grensekryssing for studentene? (Kjell Sverre Pettersen) 2007. Completed

The uses of laboratory in Biology instruction in Namibia (Hedwig Utji Kajdjee) 2002. Doctoral program between University of Oslo and University of Namibia. Advisor

Hva skal vi gjøre med jentene? En undersøkelse av jenter og gutters prestasjoner, holdninger til og interesse for naturfag i grunnskolen. (Tone Nergård) 2001. Advisor

Organizations/Administrative work

Member of the High Level Group on Science Education (Science in Society) - EU

President of ESERA (European Science Education Research Association)

Member of editorial board: International Journal for Science Education, England.

Member of editorial board: Journal of Research in Science Teaching, USA.

Member of editorial board: Science Education, USA.

Styremedlem – Uninett ABC, 2004-2008

Sytremedlem – SUM, 2004- 2008

Styremedlem – Telemarksforskning, 2000-2005

Styrestyreleder, realfagsdidaktikk (1998-2001) Responsibility for cooperation between The educational faculty (UV) and the Science and Mathematics faculty (MN) for master and doctoral program for students at the University of Oslo.

Member of the Executive Committee – European Association of Science Educators, Elected in 1999- 2002. <http://na-serv.did.gu.se/esera/esera.html>

International Council of Associations for Science Education (ICASE) – Norwegian national coordinator.

Member of Editorial Board, Science and Technology Education Library, Kluwer Academic Publishers, The Netherlands (1994-99).

Outstanding Paper Award Committee – National Association for Research in Science Teaching (1996-8)