

## *CURRICULUM VITAE*

**NAME:** KJELL BJØRGEN ESSER  
**YEAR OF BIRTH:** 1953  
**NATIONALITY:** NORWEGIAN  
**PROFESSION:** ENVIRONMENT AND DEVELOPMENT STUDIES  
**POSITION:** ASSOCIATE PROFESSOR  
**CURRENT EMPLOYER** NORWEGIAN UNIVERSITY OF LIFE SCIENCES,  
DEPARTMENT OF INTERNATIONAL ENVIRONMENT AND  
DEVELOPMENT STUDIES  
**YEARS WITH CURRENT EMPLOYER:** 28

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### **KEY QUALIFICATIONS**

- Agriculture and rural development. Soil, water and plant systems. Climate-smart agriculture. Land degradation and rehabilitation. Ecotechnology. Environmental impact assessment. Land degradation and rehabilitation.
  - Project management. Higher education in developing countries.
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### **EDUCATION**

- 1) Ph.D. (soil science/geology), 1987, University of Wisconsin-Madison, USA.
- 2) *Candidatus agriculturæ* (agronomy/soil science), 1979, Agricultural University of Norway.

### **POST-DOCTORAL TRAINING**

- 1) Institution Development (Ministry of Foreign Affairs Competence Center, 1999).
- 2) Water Management for Agricultural Production in Semi-arid Zones (International Centre for Advanced Mediterranean Agronomic Studies, Mediterranean Agronomic Institute of Zaragoza (IAMZ), Spain, 1994)
- 3) Project Administration (Norwegian School of Management BI, 1992)
- 4) Development Assistance School (*Bistandsskolen*), Norwegian Agency for Development Cooperation (NORAD, 1991)
- 5) University pedagogics (NLH, 1988)

### **EMPLOYMENT AND FELLOWSHIP**

- 2011 – present: Associate Professor (teaching, research and consulting); Department of International Environment and Development Studies (Noragric), University of Life Sciences (UMB); Main thematic focus: Climate-smart agriculture and conservation farming.
- 2005 – 2011: Head of Studies; Department of International Environment and Development Studies (Noragric); University of Life Sciences (UMB).
- 1993 – 2005: Associate Professor (teaching, research and consulting); Department of International Environment and Development Studies (Noragric), University of Life Sciences (UMB); Seconded to University of Asmara, College of Agriculture and Aquatic Sciences, Dept. of Soil and Water Conservation for the academic year 1996-97. On sabbatical leave at the Center for Sustainability and the Global Environment (SAGE), Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison, 2003-04.
- 1991 - 1993: Soil Scientist (research and consultancy; environmental protection, pollution from agriculture and industry, environmental assessments); Centre for Soil and

- Environmental Research (Jordforsk), Norway; 1992-93: Head of 'Programme for Environmental Pollutants'.
- 1990 - 1991: Soil Scientist at the Soil Productivity Research Programme, (employed by Noragric); Misamfu Regional Research Station, Zambian Ministry of Agriculture;
- 1988 - 1990: Associate Professor (teaching; tropical soil chemistry); Noragric, NLH.
- 1983 - 1988: Scientific Assistant (teaching and research; general geology, hydrogeology, geochemistry, and mineralogy); Department of Geology, Agricultural University of Norway.
- 1980 - 1982: Graduate student and NATO Fellowship Recipient; Dept. of Soil Science, 1525 Observatory Dr., University of Wisconsin, Madison, WI 53706, USA.
- 1979 - 1980: Agronomist (hybrid maize production); Tracy and Son Farms, Inc., Janesville, Wisconsin, USA.

### **INTERNATIONAL PROJECT EXPERIENCE**

- Afghanistan: Environmental needs assessment (UN Plan for the Reconstruction of Afghanistan); joint mission to Kabul by the Asian Development Bank (ADB), United Nations Environment Program (UNEP) and Norwegian Ministry of Foreign Affairs, 2002.
- Bhutan: Environmental impact assessment of the Mangde Chu hydroelectric power plant (assessment of landslide and soil erosion hazards; land use planning); Ministry of Trade and Industry, Division of Power, 1998.
- Cambodia: Water in agriculture. International conference, 2004.
- Costa Rica: Transforming higher education in Agriculture; Earth University / Debus University / Sokoine University of Agriculture / Bunda College / Noragric; NORAD, 2003.
- Czechoslovakia: Field trip (geology), Charles University, Praha; 1988.
- Eritrea: 1) Teaching at the University of Asmara; Dept. of Soil and Water Conservation, 1996-97. 2) Establishment of a national dryland coordination consortium, 2000.
- Ethiopia: 1) Use of *endod* (*Phytolacca dodecandra*) in the control of schistosomiasis; Norwegian Research Council; 1994-2001. 2) Feasibility assessment of irrigation agriculture in the Awash Valley; CARE, 1996. 3) Effects of terracing on soil fertility and crop yield; Tigray, Noragric/REST, 1998. 4) University collaboration between Mekelle University, Hawassa University and UMB. Norwegian Embassy, Addis, 2011-ongoing.
- India: 1) Soil survey, soil analyses, and hydrology in two watersheds in Himachal Pradesh and Uttar Pradesh; G.B. Pant Institute of Himalayan Environment and Development / NORAD, 1993. 2) Study coordination, Institute of Development Studies, Jaipur, and Seva Mandir, Udaipur, 2010.in Köln and UMB.
- Jordan: Establishment of a new Master of Science programme in Global Challenges and Management. Carpe Vitam Foundation. Joint programme with University of Jordan, Lund University, University of Köln and UMB.
- Macedonia: Education, research and training in global environmental change and natural resource management in the Western Balkans; 2009.
- Madagascar: 1) Participation in the Antsirabe Cross Cultural Competence Center Network Conference and preparation of field course; 2010. 2) Teaching "Agriculture, Environment and Development in Madagascar — Field Course"; 45 students; 4 weeks 2011 and 2012.
- Malawi: 1) Stabilization of Songwe River (watershed development plan); Norplan AS/Governments of Malawi and Tanzania, 2001. 2) Implementation of the Norwegian Plan of Action for Agriculture in Malawi (study of the agricultural sector and recommendation for assistance); Royal Norwegian Embassy, Lilongwe, 2005.
- Mozambique: 1) Environmental impact assessment of rehabilitation of Massingir Dam and Xai-Xai irrigation scheme; African Development Bank (Norplan AS/ADB), 1993. 2) Feasibility Study of the Moamba-Major Dam; Norconsult/Nordic Development Fund, 2001.
- Nepal: 1) Rural development and project management. Joint course between Tribhuvan University and Noragric, 2001-2004. 2) Evaluation of the National Integrated Pest Management Programme. Norad, 2012.

- Norway: Distribution of minerals and trace elements in soils, clay mineralogy, soil productivity monitoring programme, assessment of highway construction on agriculture, leaching of toxic chemicals from industrial and domestic waste dumps, criteria for pollution regulation, teaching, advisor for M.Sc. students, project management and report quality control.
- Pakistan: 1) Integrated pollution assessment/control/treatment of tannery and urban wastes - effects on ground water and agriculture in Kasur; Norwegian Agency for Development Aid (NORAD), 1992. 2) Natural systems for wastewater treatment at Gadoon Amazai Industrial Estate; NORAD/Noragric; 1996 - ongoing.
- Philippines: Establishment of consortium for managing soil erosion; IBSRAM/Noragric.
- Sri Lanka: Upper Watershed Management Project (soil erosion and hydrology); Sri Lankan Ministry of Forestry and Environment/Asian Development Bank, 1998-2000.
- Spain: Field trip (dryland agriculture and irrigation), IAMZ; 1994.
- Tanzania: Petrology, soil mineralogy, and geomorphology; Sokoine University of Agriculture, Visiting lecturer, M.Sc. course in soil science, 1994 and 1995.
- Thailand: 1) Establishment of consortium for managing soil erosion; IBSRAM/Noragric. 2) Education, sustainability and management of change in the tropics; Earth University/Salzburg/Noragric Seminar Series; NORAD.
- Uganda: 1) Soil fertility conference and field work, 1988. 2) Rural development and project management. Joint course between Makerere University and Noragric, 2001-2004.
- USA: 1) Hybride maize production, 1979. 2) Soil genesis, mineral weathering, clay mineral distribution, fate of industrial pollutants in forest and sand dune soils, impacts of acid rain on forest nutrient cycling, 1980-82.
- Vietnam: 1) Agroforestry for Soil Erosion Control—Vietnam and Laos; development of research project; NRC. 2) National Hydropower Plan Study, Vietnam (water management plans for 9 major river basins); Norplan AS, 1999-2005.
- Zambia: 1) Soil Productivity Research Programme (SPRP) (sustainability of rainfed agriculture, improvements of shifting cultivation, agroforestry, lime and phosphorus application to acid soils, nitrogen fixation, training of local staff, research administration, and publication); Zambian Ministry of Agriculture, 1989-90. 2) Conservation Agriculture Evaluation and Research Programme (CAREP); Conservation Farming Unit/Norwegian Embassy Lusaka, 2012-2015.

## REFEREED PUBLICATIONS

- Esser, K.B. 1982. Clay mineralogy and elemental distribution in a chronosequence in Indiana Dunes National Lakeshore. *Agronomy Abstracts* 74:227.
- Esser, K.B. 1990. X-ray diffraction indices for relative quantification of interlayering in phyllosilicates. *Soil Sci. Soc. Am. J.* 54:923-926.
- Esser, K.B. 1996. Reference values for heavy metals in mineral soils, oats, and orchard grass (*Dactylis glomerata*) in three agricultural areas in Norway, *Water, Air, Soil Pollution* 90:1-23.
- Esser, K.B. 1996. Processes and hazard assessment of soil erosion and strategies for erosion control. p. 406-412. In: P.S. Ramakrishnan, A.N. Purohit, K.G. Saxena, K.S. Rao, and R.K. Maikhuri (eds.) *Conservation and management of biological resources in Himalaya*. G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora and Oxford and IBH Publishing Co. Pvt. Ltd, New Dehli.
- Esser, K.B. 2002. Can application of fused calcium silicate to rice contribute to sustained yields and higher pest resistance? *Outlook on Agriculture* 31(3):199-201.
- Esser, K.B. 2003. Promises and realities of agricultural benefits from large dams. Proceedings from the International Conference “Research on Water in Agricultural Production in Asia for the 21<sup>st</sup> Century”, 25-28 November, CARDI, Phnom Penh, Cambodia (in press).
- Esser, K.B., J.G. Bockheim, and P.A. Helmke. 1992. Mineral distribution in soils formed in the Indiana Dunes, USA. *Geoderma* 54:91-105.
- Esser, K.B., P.A. Helmke, and J.G. Bockheim. 1991. Trace element contamination of soils in the Indiana Dunes, U.S.A. *J. Environ. Qual.* 20:492-496.

- Esser, K.B., P.A. Helmke, and J.G. Bockheim. 1991. Trace element distribution in soils in the Indiana Dunes, U.S.A. *Soil Science* 152:340-350.
- Esser, K.B., K. Semagn, and L. Wolde-Yohannes. 2003. Medicinal use and social status of the soap berry *endod* (*Phytolacca dodecandra*) in Ethiopia. *Journal of Ethnopharmacology* 85(2-3):269-277.
- Ali, A., K.B. Esser, and J.M. Esser. 1995. Mineral distribution in four podzolic soils in southern Norway. *Norsk Geologisk Tidsskrift (Norwegian Geological Journal)* 75:137-145.
- Bedri A, Gundersen SG, Abebe F, Birrie H, Wolde-Yohannes L, Esser KB and Gemetchu T. 1997. *Endod* in schistosomiasis control: From household level socio-economic data. Ethiopian Public Health Association Eighth Annual Scientific Conference, Addis Ababa, Ethiopia, Nov. 5-7, 1997. Abstract no 38.
- Gundersen SG, Abebe F, Esser KB, Birrie H, Wolde-Yohannes L, Semagn K, Berhe N, Medhin G, Gemetchu T and Gebre-Michael T. 1997. Schistosomiasis control by the soap berry *endod* - A multi-disciplinary study in North-East Ethiopia: Study design. Ethiopian Public Health Association Eighth Annual Scientific Conference, Addis Ababa, Ethiopia, Nov. 5-7, 1997. Abstract no 34.
- Jenssen, P.D. and K.B. Esser. 2003. Vannets kretsløp i vår tjeneste – tilpassede VA-løsninger i u-land. Vann ().
- Nawab, B., K.B. Esser, M. Rasul Jan, Z. Ullah. 2001. Combating chemical pollution by natural regenerative processes (constructed wetlands). Proceedings from the 1st International and 11th National Chemistry Conference, Department of Chemistry, University of Peshawar, Pakistan. April 10-14, 2001.
- Nawab, B., K.B. Esser, and Shafiq-ur-Rehman. 2004. The challenge of providing clean water and improved sanitation at a low cost in NWFP, Pakistan. Proceedings from the International Conference on Environmental Challenges, March 15th 2004, Department of Environmental Sciences, University of Peshawar. (in press)
- Nawab, B., R.A. Khattak, and K.B. Esser. 2004. Evaluation of sewage water pollution and its management in Peshawar City, NWFP, Pakistan. Proceedings from the International Conference on Environmental Challenges, March 15th 2004, Department of Environmental Sciences, University of Peshawar. (in press)
- Nawab, B., I. Nyborg, K.B. Esser, and P. Jenssen. 2005. Cultural preferences for latrines and flush toilets with wetland treatment in North West Frontier Province, Pakistan. 3rd International Conference on Ecological Sanitation 23 - 26 May 2005, Durban, South Africa (in press).
- Nyombi, K., K. Esser and J.Y.K. Zake. 2005. Efforts by small-scale farmers to maintain soil fertility, Luwero District, Uganda. *Journal of Sustainable Agriculture* (in press).
- Vagen, T.-G., T. Yibabe, and K.B. Esser. 1999. Effects of terracing on phosphorus supply to barley and beans in Tigray, Ethiopia. *Journal of Sustainable Agriculture* 15(1):61-74.
- Wolde-Yohannes, L., K.B. Esser, and K. Semagn. 1999. Cultivation of *Phytolacca dodecandra* for schistosomiasis control. *Agroforestry Today* 11(3-4):7-9.

#### **SCIENTIFIC JOURNAL PUBLICATIONS SUBMITTED OR IN PREPARATION**

- Esser, K.B. Quality of irrigation water at eight selected sites in Eritrea. *East African Journal of Agriculture* (submitted).
- Guangul, M.W. and K.B. Esser. Land user perception and ecological impacts of area closure in Semenawi-Baheri and Temteme, Eritrea. *African Journal of Range and Forage Science* (submitted).
- Lemisso, D.K. and K.B. Esser. Management of soil fertility by subsistence farmers in the Kabale District, Uganda. (in preparation)
- Thi Ha Nguyen and K.B. Esser. Impact of land allocation on land use and poverty in two communes in Tuyen Quang Province, Vietnam (in preparation)

#### **MONOGRAPHS, REPORTS AND SHORT COMMUNICATIONS**

- Esser, K.B. 1988. Soil chemical analysis - Lab. Manual. Dept. of Soil Sci., NLH, 18 pp.

- Esser, K.B. 1991. Evaluation of soil quality along a highway construction site, Minnesund (in Norwegian). Centre for Soil and Environmental Research, Ås. 8 pp.
- Esser, K.B. 1992. Environmental project for Kasur, Pakistan. Centre for Soil and Environmental Research, Ås. 10 pp.
- Esser, K.B. 1992. Mineral weathering and redistribution of chemical elements during pedogenesis. Centre for Soil and Environmental Research, Ås. 55 pp.
- Esser, K.B. 1992. Potential soil pollution from highway traffic in Asker (in Norwegian). Centre for Soil and Environmental Research, Ås. 7 pp.
- Esser, K.B. 1993. Soils and groundwater in Sahel. Lecture notes. Sahel-Sudan-Ethiopia seminar, Hellerud, Norway.
- Esser, K.B. 1993. Xai-Xai smallholder agricultural project. In: Norplan A/S. Massinger dam and smallholder agricultural rehabilitation project, Mozambique. Environmental impact assessment. Final report. African Development Bank.
- Esser, K.B. 1995. Petrology, soil mineralogy, and geomorphology. Noragric, 3rd edition, 110 pp.
- Esser, K.B. 1995. Soils: quality, fertility constraints, degradation, and management. Lecture notes. Noragric. 44 pp.
- Esser, K.B. 1995. Feasibility study of irrigation agriculture, Metahara, Awash Valley, Ethiopia. Report submitted to CARE Norway. 18 pp.
- Esser, K.B. 1996. Soil erosion. Lecture notes. Department Soil and Water Conservation, College of Agriculture and Aquatic Sciences, Univ. of Asmara, Eritrea. 27 pp.
- Esser, K.B. 1996. Soil physics (compendium). Department Soil and Water Conservation, College of Agriculture and Aquatic Sciences, Univ. of Asmara, Eritrea. 60 pp.
- Esser, K.B. 1996. Water management in dryland agriculture (compendium). Department Soil and Water Conservation, College of Agriculture and Aquatic Sciences, Univ. of Asmara, Eritrea. 143 pp.
- Esser, K.B. 1997. Soil chemistry and mineralogy (compendium). Department Soil and Water Conservation, College of Agriculture and Aquatic Sciences, Univ. of Asmara, Eritrea. 160 pp.
- Esser, K.B. 1998. Edafic components of ecosystems. Lecture notes for parts of MN 200 Ecology, Conservation and Management of Natural Resources in the Tropics. Noragric, Agricultural University of Norway. 71 pp.
- Esser, K.B. 1998. Landslides, erosion and land use. In: Joint Venture of Statkraft Engineering a.s., Norwegian Consortium for Development and Environment (NODE), and Norwegian Institute for Water Research (NIVA). Environmental Impact Assessment of the Mande Chhu Hydroelectric Power Project. Division of Power, Ministry of Trade and Industries, Royal Government of Bhutan.
- Esser, K.B. 1998. Evaluation of environmental aspects of the project "Promotion de l'Artisanat Minier et Protection de l'Environnement", Mali. Report submitted to the Norwegian Development Aid Agency (NORAD). 9 pp.
- Esser, K.B. 1998. Evaluation of IFAD project proposals. Report submitted to the Ministry of Foreign Affairs, Oslo Norway.
- Esser, K.B. 1999. Agroforestry in tropical watershed management. Noragric Brief 1/99.
- Esser, K.B. 1999. Environmental impact assessment of irrigation projects. Noragric Brief 3/99.
- Esser, K.B. 1999. Landslide hazard in the Himalaya. Noragric Brief 4/99.
- Esser, K.B. 1999. Evaluation of IFAD project proposals. Report submitted to the Ministry of Foreign Affairs, Oslo Norway.
- Esser, K.B. 1999. Natural systems for wastewater treatment in the Tropics. Noragric Brief 6/99.
- Esser, K.B. 1999. The global soil degradation problem. Noragric Brief 5/99.
- Esser, K.B. 1999. Water harvesting in dryland farming. Noragric Brief 7/99.
- Esser, K.B. 1999. Sustainable Agriculture and Food Security – a program area in Noragric. Noragric, NLH. 2 pp.
- Esser, K.B. 2000. Soil and land: Fertility, degradation and management. Lecture notes linked to the Spatial Environmental Planning Project, Himachal Pradesh, India. Noragric, NLH. 39 pp.
- Esser, K.B. 2000. Value creation and national resource mobilization: approaches and instruments for Norwegian support to the primary industries in developing countries. Report submitted to the Norwegian Development Aid Agency. Noragric, NLH. 95 pp. (in Norwegian).

- Esser, K.B. 2000. Økt verdiskapning ved utvikling av landbruksbaserte foretak: Kan et stimulert marked bidra? Foredragsnotat presentert ved Norsk handel med landbruksvarer i lys av 'Strategien for næringsutvikling i Sør'. Landbruksfaglig bistandsforum, Oslo, Norway. (in Norwegian). 5 pp.
- Esser, K.B. 2000. Water resources and their management. Lecture notes linked to the Spatial Environmental Planning Project, Himachal Pradesh, India. Noragric, NLH. 46 pp.
- Esser, K.B. 2001. Assessment of "The African Academy of Sciences" and the applications "Capacity Building in Soil and Water Management" and "African Journals Support and Development Centre". Report submitted to the Royal Norwegian Ministry for Foreign Affairs (in Norwegian). 17 pp.
- Esser, K.B. 2001. Proposal for an English language master of science program in rural development. Report submitted to Noragric/NLH (in Norwegian). 65 pp.
- Esser, K.B. 2001. Agriculture and irrigation. Input report to the Lo-Gam-Chay River Basin Plan. Sweco/Norplan and Electricity Vietnam (EVN).
- Esser, K.B. 2001. How can research contribute to rural development? (p. 30-33) In: Proceedings from a seminar on the formation of the Drylands Coordination Group in Eritrea. Hosted by the National Confederation of Eritrean Workers (NCEW), March 26th-28<sup>th</sup> 2001, Asmara, Eritrea. 98 pp.
- Esser, K.B. 2001. Agriculture and irrigation. Input report to the Da River Basin Plan. Sweco/Norplan AS and Electricity Vietnam (EVN).
- Esser, K.B. 2001. Agriculture and irrigation. Input report to the Ca River Basin Plan. Sweco/Norplan AS and Electricity Vietnam (EVN).
- Esser, K.B. 2001. Agriculture and irrigation. Input report to the Dong Nai River Basin Plan. Sweco/Norplan AS and Electricity Vietnam (EVN).
- Esser, K.B. 2002. ICIMOD Special Board of Governors and ICIMOD Support Group Meeting. Report submitted to the Norwegian Development Aid Agency (NORAD). 6 pp.
- Esser, K.B. 2002. Potentials for irrigation agriculture on the Songwe River plain. Report submitted to Norplan AS.
- Esser, Kjell. 2012. Får vi mat i 2050? Kronikk i Dagsavisen 17. september.
- Esser, K.B. and B. Nawab. 2003. Water in poor countries require simple, local solutions (Vann i fattige land krever lokale løsninger). Guest Column (Kronikk), Aftenposten 02/08/03, Oslo, Norway (in Norwegian).
- Esser, K.B. 2003. Feasibility Study Moamba-Major Dam, Chapter 5 Land and Water Resources. Report submitted through Norconsult AS to the National Directorate of Water, Ministry of Public Works and Housing, Government of Mozambique.
- Esser, K.B. 2003. Chapter 1. Needs for entrepreneurial education in agriculture. p. 3-6. In: J. Boddens-Hosang (ed.), Learning from the past, looking to the future: Noragric/NLH's partnerships with universities in Africa. Noragric Report No. 15. Noragric, NLH, Norway.
- Esser, K.B. 2004. EDS320 Scientific Communication Seminar. Powerpoint lecture series, Noragric, NLH. 445 slides.
- Esser, K.B. and O. Nordal. 1991. Terrestrial monitoring in agriculture. Centre for Soil and Environmental Research, Ås.
- Esser, K.B., S.G. Gundersen, T. Gebre-Michael and L. Wolde-Yohannes. 2000. Control of schistosomiasis (bilharzia) using berries from *Phytolacca dodecandra* (endod). SciNews No. 2.
- Esser, K.B., T.G. Vågen, T. Yibabe, and M. Haile. 2002. Soil conservation in Tigray. Noragric Report No. 5, Noragric, Agricultural University of Norway.
- Esser, K.B., J. Boddens-Hosang and S.M. Løksa. 2003. Adapting the EARTH University model (Costa Rica) to agricultural universities in Africa. Report submitted to the Norwegian Development Aid Agency. Noragric, Agricultural University of Norway. 19 pp.
- Esser, K.B., R. Øygard, C. Chibwana and M. Blackie. 2005. Implementation of the Norwegian Plan of Action for Agriculture in Malawi. Noragric, UMB.
- Esser, K.B., M.G. Sæthre, N. Pradhananga, and H. Ojha. 2012. Midterm evaluation of the National Integrated Pest Management Programme – Nepal (draft). Noragric, UMB.
- Angstreich, M.G., K.B. Esser and A.S. Jeng. 2003. Desk appraisal of the project proposals: CATIE "Appraisal and Baseline Study: Multisector Strategies to Strengthen the Capacity of Farm Households and Grower Associations to Innovate under Ecological and Economic Uncertainty"

- and CIAT "Conservation, Restoration and Production in Rural Communities of the Non-Protected Areas of the Mesoamerican Biological Corridor, Pre-Project". Report submitted to the Norwegian Development Aid Agency (NORAD).
- Gunawardena, N. and K.B. Esser. 2000. Soil conservation and hydrological monitoring. Upper Watershed Management Project, Norwegian Consortium for Development and Environment / Lanka Environment and Development Services (Pvt) Ltd. 54 pp.
- Haug, R., T. Berg, K.B. Esser and H. Svads. 1994. Environmental impact assessment of development aid projects. Initial Environmental Assessment — Agriculture. Report submitted to NIBR/NORAD as a source text to NORAD 1995: Environmental impact Studies No. 1 Agriculture, Oslo, Norway.
- Nawab, B. and K.B. Esser. 2003. United Nations Millennium goal of 'Halving the number of people without safe water and sanitation by 2015': Some considerations. Opinion, Statesman 02/08/03, Peshawar, Pakistan.
- Nawab, B. and K.B. Esser. 2003. UN era of safe water. The Frontier Post, Peshawar, Pakistan. Aug. 12.
- Nhân, H.D. and K.B. Esser. 1997. Agroforestry systems for soil erosion control in Vietnam and Laos. Noragric, NLH. 10 pp.
- SPRP. 1989. Soil Productivity Research Programme, Annual Report 1989. Misamfu Regional Research Station, Kasama, Zambia. (ed.: K.B. Esser).
- SPRP. 1990. Soil Productivity Research Programme, Annual Report 1990. Misamfu Regional Research Station, Kasama, Zambia. (ed.: K.B. Esser).
- SPRP. 1991. Soil Productivity Research Programme, Annual Report 1991. Misamfu Regional Research Station, Kasama, Zambia. (ed.: K.B. Esser).
- SPRP. 1992. Soil Productivity Research Programme, Annual Report 1992. Misamfu Regional Research Station, Kasama, Zambia. (ed.: K.B. Esser).
- Tilahun, Y, K.B. Esser and M. Haile. 2000. Soil conservation in Tigray. SciNews No. 1, Agricultural University of Norway.
- Wolde-Yohannes, L. and K.B. Esser. 2004. The spread of schistosomiasis by dam and irrigation development can be prevented with the soapberry *endod*. Agricultural Research and Extension Network (AgREN), Newsletter No. 49, p. 7.

### COMPUTER APPLICATIONS

- Accounting system (Macro operated Microsoft Excel application), Soil Productivity Research Program, Ministry of Agriculture, Zambia; 1990.
- Project monitoring database (Microsoft Access), Upper Watershed Management Project, Ministry of Forestry and Environment, Sri Lanka; 1998-99.
- Database for international student applications and evaluation (Filemaker Pro), Noragric, NLH; 2002-03.

### TEACHING

- Agriculture, Environment and Development in Madagascar – 4-week Field Course (5 ETC); 2011-12, Noragric, UMB and Univ. of Fianarantsoa.
- Introduction to Development Studies (5 ETC); 2006-2009, Noragric, UMB
- Environmental Impact Assessment (10 ETC); 2007-2008, Noragric, UMB.
- Applied Tropical Agriculture (5/10 ETC); 2007, Noragric, UMB.
- Conservation Farming (5 ETC); 2006, Noragric, UMB.
- Communication and Current Issues in Environment and Development Studies (5 ETC); 2006, Noragric, UMB.
- Research Methods (social science) (5 ETC); course coordinator, Noragric, NLH.
- Sustainable Agriculture and the Environment (5 ETC); 2004-2012; e-course; Noragric, NLH.
- Ecotechnology – Basics (15 ETC); 2004; M.Sc. program in Development Studies; Department of Mathematical Sciences and Technology, NLH.
- Dynamics of the Water Sector (5 ETC); course coordinator 2004; Network University, The Netherlands.

Rural Development and Project Management (15 ETC); course coordinator 2004; joint course with Makerere University (Uganda), Tribhuvan University (Nepal) and Noragric, NLH.  
Scientific Communication Seminar (2 credits); 2003, 2005; M.Sc. program; Noragric, NLH.  
Project Management (2 credits); 2002-03, lectures and course coordination; joint course Makerere University (Uganda), Tribhuvan University (Nepal) and Noragric.  
Water. Lecture for U100 Agriculture in Developing Countries; 1998-2003. Noragric/NLH.  
Ecology of Watersheds. Lectures for MN330 Tropical Agricultural Production Systems; 2000, 2001; M.Sc. program; Noragric.  
Edaphic Components of Ecosystems. Lectures for MN200 Tropical Ecology and Biology; 1998 and 1999; M.Sc. program; Noragric.  
Soils. Nutrient Cycles. Global Cycles and Human Impacts. Lectures given in MN200 Ecology and Field Biology 2001, 2002, M.Sc. program in Management of Natural Resources and Sustainable Agriculture; and in THT282 Ecotechnology, M.Sc. program in Development Studies; Noragric and Dept. of Agricultural Engineering.  
Hydrology and Water Harvesting (3 credits); 1997; University of Asmara.  
Pedogeography (2 credits); 1997; University of Asmara.  
Soil Chemistry (2 credits); 1997; University of Asmara.  
Soil Erosion (3 credits); 1996; University of Asmara.  
Soil Physics (3 credits); 1996; University of Asmara.  
Water Management (2 credits); 1996; University of Asmara.  
Petrology, Soil Mineralogy and Geomorphology (1 credit); 1994-95; Sokoine University of Agriculture.  
Soil Science Seminar (1 credit); 1990; Agricultural University of Norway.  
Soil Chemistry (3 credits); 1986-88; Agricultural University of Norway.  
Soil Chemical Analysis (2 credits); 1987-88; Agricultural University of Norway.  
General Geology (5 credits); 1983-87; teaching assistant; Agricultural University of Norway.  
Quaternary Geology; Field Course (2 credits); 1983-87; teaching assistant; Agricultural University of Norway.

#### **EXTERNAL EXAMINER**

GEDS/DM-4001 Global Environment and Development Issues. Global Virtual University (Agder University College/Grid Arendal/UNU/UNEP); 2003-2009.

#### **SUPERVISION OF GRADUATE STUDENT RESEARCH**

##### **Master of Science**

38 students in the field of agriculture, environment and development.

##### **Doctor of Philosophy**

Bahadar Nawab. 2003-2006. Adaptation of natural systems for treatment of wastewater to rural conditions in NWFP, Pakistan

#### **REFEREE SERVICE**

Water, Air, and Soil Pollution, Kluwer Academic Publishers  
Environmental Monitoring and Assessment, Kluwer Academic Publishers  
Environmental Pollution, Elsevier Science Publisher  
Agriculture, Ecosystems & Environment

#### **APPOINTED POSITIONS**

Member of the Appeals Committee (*Klagenemnda*), UMB; 2010-present.  
Substitute Leader for *Studienemnda*, UMB; 2006-2011.  
Head of Education, Noragric; 2005-2011.



Representative for NLH at NOVA-DC (The Nordic Forestry, Veterinary and Agricultural University – Development Cooperations; 2001-2004.  
Member of Research Committee, Noragric; 1998-2001.  
Member of Education Committee, Noragric: 1995-2011.  
Assistant Head of Education, Noragric; 1999-2002  
Program Director for ‘Sustainable Agricultural and Food Security’, Noragric; 1998-1999.  
Head of Section ‘Sustainable Agriculture’, Noragric; 1995-1998.  
Leader of ‘Programme for Environmental Pollutants’, Jordforsk; 1993.

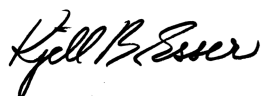
#### **ELECTED POSITIONS**

Deputy Leader, Studienemnda (deputy for prorektor); 2006-2011.  
Member of the board for Follo Region AOF (adult education), 2001 – 2004  
Substitute member of the Ås Municipality Board, 2001 - 2003.  
Deputy member of the Noragric Board, 2000 – 2002  
Member of the Department Board, Dept. of Soil and Water Sciences, Agric. Univ. of Norway, 1986-1987.  
Substitute member of the University Council, Agric. Univ. of Norway, 1983-1986.  
Substitute member of the Science Council, Agric. Univ. of Norway, 1983-1986.

<b>LANGUAGES</b>	<b>WRITE</b>	<b>READ</b>	<b>SPEAK</b>
Norwegian	Fluent	Fluent	Fluent (native tongue)
English	Fluent	Fluent	Fluent
German	-	Some	Some
French	-	Some	-

SIGNATURE:

Date: February 26, 2013



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