

CURRICULUM VITAE

EGGEN, Trine

Born: 1963, Norway

Present position

Head of Department/Research Manager Bioresources and Recycling Technologies, NIBIO,
Norwegian Institute of Bioeconomy Research
Address: Haveveien 2, Moss. Phone: +47 90 99 70 74
E-post: Trine.eggen@nibio.no

Education

- 1982-88:** Environment Technology based biology study. Cand. Sc.
Zoophysiology/Toxicology, Institute for Biology/ Institute for Pharmacology and
Toxicology, University of Trondheim
Thesis: Cytotoxicity testing *in vitro* of manganese
- 1990-93:** M.Sc. Environmental Engineering, Department of Environmental Engineering,
University of Washington, Seattle, USA
Thesis: Humic Substances Removal in Drinking Water by Ion Exchange using Iron Oxide
Coated Sand (IOCS)
- 1999:** Dr. Scient. Agricultural University of Norway, Ås
Thesis: Bioremediation of recalcitrant aromatic organic pollutants with white rot fungi

Research Expertise/Interest

Fate processes related to organic contaminants in the environment and treatment processes;
Remediation technology organic pollutants, Physicochemical properties-related environmental
fate and uptake of contaminants in organisms; Plant uptake of organic contaminants;
Environmental and food safety risk assessment; Organic fertilizers and phosphorus.

Professional experience

- 1987/88:** Research assistant/Technical assistant, Institute for Pharmacology and
Toxicology/Inst. For Clinical Chemistry, University of Trondheim
- 1988-89:** Consultant, Norsk Jernverk AS (Norwegian Steel Plant AS), Mo i Rana
- 1989-93:** Consultant, Norsk Miljøteknologisk Senter - Terrateam AS, Mo i Rana
- 1989-90:** Manager Director of Terrateam AS (Interim)
- 1993-:** Research scientist/Senior scientist, Jordforsk – Bioforsk - NIBIO
- 1999*:** During 1999 - take courses, publishing articles and writing together a Ph.D. thesis
based on previous performed projects
- 2003-06:** Associated Professor II, The Faculty of Science and Technology, Dep. of
Mathematics and Natural Science, University of Stavanger (UiS). Lecturing and
responsible for the course ‘Bioremediation technologies’

Other professional activities

- 1998:** Consultant for NATO in the NATO Science of Peace Program
- 2002-2004:** Project manager for the NATO-project: Collaborative Linkage Grant Project.
“Evaluation of composting and fungal treatment technology for remediation of
PAH contaminated soil”
- 2006:** Member of the National Scientific and Arrangement Committee 5th International
Conference on Contaminants in Freezing Ground. Oslo, 21-25 May
- 2003-2006:** Member of National Advisor Board for Contaminated Sediment (Nasjonalt råd for
forurensede sedimenter)

- 2007-2010:** Member of Norwegian Scientific Committee for Food Safety (Vitenskapskomiteen for mattrygghet, VKM), The Panel on contaminants
- 2008-2009:** Member of the ad hoc group performing the risk assessment of contaminants in sewage sludge applied on Norwegian soils
- 2014-:** Member of VKM, Member of Norwegian Scientific Committee for Food Safety (Vitenskapskomiteen for mattrygghet, VKM)

Non-professional activities

- 1990-92:** Secretary/member of the group evaluating central plant for hazardous waste in Mo i Rana.
- 1999-2003:** Member of the municipal council of Vestby
- 1999-2003:** Deputy Chair of the inter-municipal food control (the representative from Vestby community)
- 2000-2003:** Member of the board of Jordforsk

Supervisor, sensor and teaching activities

Master thesis (6): Topic: Five related to organic pollutants and fate; one related to plant uptake.

- M.Sc. Thesis. Different treatments for trinitrotoluene (TNT) degradation in soil and establishment of an analytical method for TNT and metabolites. Department of Biology, University of Oslo
- Diplom Thesis: Organic pollutants (pharmaceuticals and musks) in leachates from municipal landfills: adsorption and degradation in sandy aquifer under different redox conditions. NTNU, Trondheim
- Binding of model compounds (pharmaceuticals, musk compounds) to soil fractions. The Agricultural University of Norway
- Uptake of DDT in selected plant species and the effect of organic matter in soil. Norwegian University of Life Science, Ås
- Mobilization- and binding of TBT to soil and sediment .University of Stavanger
- Ciprofloxacin and triclosan in soil and manure. University of Stavanger

Sensor Ph.D. thesis: Topic: Toxicity, Biodegradation/remediation, pH dependent bioavailability/toxicity.

- Opponent for the Ph.D. thesis: Toxicity of tar constituents in terrestrial ecosystems: "Effects of eight polycyclic aromatic compounds on terrestrial plants, soil invertebrates and micro-organisms". Department of Biology, University of Oslo.
- Opponent for the Ph.D. thesis: Biodegradation of hydrocarbons in Arctic soils at low temperatures. Department of Geoscience, University of Oslo.
- Sensor for the Ph.D. thesis: Remediation efficiency and ecotoxicological effects of nano-sized zero-valent iron (nZVI) in polluted soil. Norwegian University of Life Sciences.
- Opponent for the Ph.D. thesis: The effect of pH on the bioconcentration and toxicity of weak organic electrolytes. Denmark Technical University, Copenhagen.
- Opponent for the Ph.D. thesis: Feasibility of phytoremediation for common soil and groundwater pollutants. Denmark Technical University, Copenhagen.

Teaching:

2003-2006: Responsible and teacher for the course 'Bioremediation'. University of Stavanger.

Project manager of selected related projects to environmental fate, remediation/environmental technology, plant uptake, risk assessment

The Research Council of Norway (Norges Forskningsråd):

- Screening of white rot fungi for degradation of recalcitrant compounds – PAH, PCB and DDT (Free research funding from PROMUF; 1995-96).
- Bioremediation of creosote contaminated soil with initial high concentration – degradation effect and PAH mobility (The Program for Contaminated soil and groundwater; 1997-98).
- Treatment of soil and sediment polluted with strongly oxidized chemicals (Free research funding from PROMUF; 2000-03).
- From plants to humans: plant accumulation and transfer of organic foreign compounds in primary food chain” (The Food Programme; 2008-11)

Institute Programs:

- Manager for the Strategic Institute Program “Binding- and mobilization processes of organic pollutants – the significance for remediation processes” (2002-2006)
- Project manager for Bioforsk’s part in NILUs Institute Program: Development of a risk assessment tool box for “new” organic pollutants of emerging environmental concern “Newpoll” (2003-2008)
- Project manager for Bioforsk’s part in NILUs Research Project: “Pharmafate” (2006-2008)
- Project manager for Bioforsk’s part in NIVAs Institute Program: Fate, risk and management of pharmaceuticals and personal care products (PPCP) in the Norwegian sewage system “Pharmatreat” (2006-2008)

Norwegian Food Safety Authority (Mattilsynet)

- Translocation of the neonicotinoide imidacloprid to nectar and pollen from coated oily rape seeds; exposure of bees (2012)
- Uptake and translocation of the neonicotinoide imidacloprid to nectar and pollen in cultivated plants (from growth media) – exposure of bees (2013)

The Norwegian Environment Agency (Miljødirektoratet)

- Establishing methods for use of biota as sampler for risk assessment of PFAS-contaminated ground (2015)
- Transformation of Perfluorinated compounds (PFC): fluorotelomer alcohol (10:2 FTOH), fluorotelomer sulfonate (6:2 FTS) and Teflon (PTFE) (2007)
- Transport of TBT from seashore deposits (2007)
- Testing practical methods for DDT degradation in contaminated sediment (anaerobic biopile treatment) (2006)
- Test program for materials for used in capping of contaminated sediments (2005) (SFT rapport TA-nummer. 2143/2005)
- Pilot project – Horten harbor TBT contaminated sediment (2002) (Co-project w/Norconsult)
- Leaching potential and toxicity of TBT from contaminated harbor sediment (Related to clean up pilot project Horten harbor) (2003)
- Requirements for establishing limit values for organic contaminants in organic based fertilisers (2019)

Ministry of Agriculture and Food (Landbruks- og matdepartementet, LMD):

Treatment technology for DDT contaminated soil – chemical oxidation (2000)

Co-funding projects between Ministry of Agriculture and Food/Norwegian Environment Agency/Norwegian Food Safety Authority

- Assessment of diffused polluted DDT in agriculture soil from forest nursery school: consequences and the need for treatment (2003)
- Mapping and risk assessment of DDT in Lake Ørsjøen (2004)
- DDT uptake by selected plant species and practical methods for stimulation of DDT degradation in agriculture soil (2005)
- Stimulating DDT degradation *in-situ* in diffuse DDT contaminated agriculture soil by practical agriculture methods (2005)
- Action plan for contaminated DDT sediment – Lake Ørsjøen (2008)

The Norwegian Defense Estates Agency (Forsvarsbygg)

- Literature study and experimental study comparing different treatment methods. Aerobic and anaerobic biodegradation, Fenton oxidation of TNT-contaminated soil (2001)
- Uptake and translocation of metals in vegetation (2006-07)

Industry and associations:

- Organic pollutants in circulation, Project funded NORVAR, Waste Management Norway (Avfall Norge) (2007)
- Reductive dehalogenation of brominated flame retardants (PBDE, TBBPA, HBCDD) - *in-situ* and *ex-situ* degradation processes. A long-term experiment with contaminated sediment from Mjøsa, NOAH AS (2008)
- Treatment processes for reducing the concentration level of brominated flame retardant, polybrominated diphenyl ethers (PBDEs), in sewage sludge and effluent water. A literature study. IVAR AS (2014-2015)

The Norwegian Agricultural Agency (Landbruksdirektoratet):

- The knowledge of pesticides (properties and application) for selection of efficient action to prevent runoff of pesticide cocktail from greenhouse activity (2014-2015)
- The influence of organic phosphorus (P) forms in manure and soil for an efficient utilization of P and reduced run-off to the recipients (2014-2015)

Regional Funds in Norway (Regional financing/Regionalt Forskningsfond RFF):

- Precipitation and release of phosphorus (P) complexes. A preliminary project for regional collaboration to develop processes and technology to recycle P in manure (2011)
- Characterization of phosphorus in manure (VRI: Funding for regional R&D and innovation) (Virkemidler for regional FoU og innovasjon) (2012)
- Reduction of leachates and run-off of pesticides from greenhouse growers (Fylkemannen landbruksavdeling, Vannområdet Jæren) (2013-2014)

Award

February 2008: Innovation first prize (Bioforsk prize) related to dehalogenation of strongly oxidized organic pollutants

Publications

Publication rang A

1. Eggen, T., Majcherczyk, A. 1998. Removal of Polycyclic Aromatic Hydrocarbons (PAH) in Contaminated Soil by White Rot Fungus *Pleurotus osteratus*. ***International Biodeterioration and Biodegradation*** 41: 111-117
2. Eggen, T. Sveum, P. 1999. Decontamination of Aged Creosote Polluted Soil: The influence of Temperature, White Rot Fungus *Pleurotus ostreatus*, and Pre-Treatment. ***International Biodeterioration and Biodegradation*** 43: 125-133
3. Eggen, T. 1999. Application of Fungal Substrate from Commercial Mushroom Production – *Pleurotus ostreatus* – for Bioremediation of Creosote Contaminated Soil. ***International Biodeterioration and Biodegradation*** 44: 117-126
4. Eggen, T., Vethe, Ø. 2001. Stability indexes for different composts. ***Compost Science & Utilization*** 9(1): 19-26
5. Eggen, T., Sasek, V. 2002. Use of edible and medicinal mushrooms spent compost in remediation of polluted soils. ***International Journal of Medicinal Mushrooms*** 4(3):255-261
6. Hanslin H.M, Eggen T. 2005. Salinity tolerance during germination of seashore halophytes and salt-tolerant grass cultivars. ***Seed Science Research*** 15:43-50

7. Eggen, T., Majcherczyk, A. 2006. Effects of zero-valent iron (Fe^0) and temperature on the transformation of DDT and its metabolites in lake sediment. *Chemosphere* **62**:1116-1125
8. Hartnik, T., Norli, H.R., Eggen, T., Breedveld, G. 2007. Bioassay-directed identification of toxic organic compounds in creosote-contaminated groundwater. *Chemosphere* **66**:435-443
9. Vasskog, T., Bergersen, O., Anderssen, T., Jensen, E., Eggen, T. 2009. Depletion of selective serotonin reuptake inhibitors during sewage sludge composting. *Waste Management* **29**: 2808-2815
10. Eggen, T., Möder, M., Arukwe, A. 2010. Municipal landfill leachates: A significant source for new and emerging pollutants. *Science of the Total Environment* **408**:5147-5157.
11. Eggen, T., Asp, T.N., Grave, K., Hormazabal, V. 2011. Uptake and translocation of metformin, ciprofloxacin and narasin in forage- and crop plants. *Chemosphere* **85**:26-33.
12. Eggen, T., Lillo, C. 2012. Antidiabetic II Drug Metformin in Plants: Uptake and Translocation to Edible Parts of Cereals, Oily Seeds, Beans, Tomato, Squash, Carrots, and Potatoes. *Journal of Agricultural and Food Chemistry* **60**:6929-35.
13. Macherius, A., Eggen, T., Lorenz, W., Reemtsma, T., Winkler, U., Möder, M. 2012. Uptake of Galaxolide, Tonalide and Triclosan by Carrot, Barley and Meadow Fescue Plants. *Journal of Agricultural and Food Chemistry* **60**: 7785-7791.
14. Macherius, A., Eggen, T., Lorenz, W., Möder, M., Ondruschka, J., Reemtsma, T. 2012. Metabolization of Bacteriostatic Personal Care Products in Edible Plants and its Consequences for Plant Uptake. *Environmental Science Technology* **46**:10797-10804.
15. Arukwe, A., Eggen, T., Möder, M. 2012. Solid Waste Deposits as a significant source for contaminants of emerging concern to the aquatic and terrestrial environments – a developing country case study from Owerri, Nigeria. *Science of the Total Environment* **438C**: 94-102.
16. Eggen, T., Heimstad, E.S., Heimstad, Stuanes, A.O., Norli, H.R. 2013. Uptake and translocation of organophosphates and other emerging contaminants in food and forage crops. *Environmental Science Pollution Research* **20**:4520-4531. *Open access*
DOI:10.1007/s11356-012-1363-5
17. Trapp, S. Eggen, T. 2013. Simulation of the plant uptake of organophosphates and other emerging pollutants for greenhouse experiments and field conditions. *Environmental Science Pollution Research* **20**:4018-4029.
18. Arukwe, A., Carteny, C.C., Möder, M., Bonini, A., Maubach, M.A., Eggen, T. 2016. Differential modulation of neuro- and interrenal steroidogenesis of juvenile salmon by the organophosphates - tris(2-butoxyethyl)- and tris(2-chloroethyl) phosphate. *Environmental Research* **148**:63-71.
19. Arukwe, A., Carteny, C.C., Eggen, T. 2016. Lipid peroxidation and oxidative stress responses in juvenile salmon exposed to waterborne levels of the organophosphate compounds tris(2-butoxyethyl)- and tris(2-chloroethyl) phosphates. *J. Toxicol. Environ. Health Part A*. **79**:515-525.
20. Arukwe, A., Carteny, C.C., Eggen, T., Möder, M. 2018. Novel aspects of uptake patterns, metabolite formation and toxicological responses in Salmon exposed to the organophosphate esters — Tris(2-butoxyethyl)- and Tris(2-chloroethyl) phosphate. *Aquatic Tox.* 196.

Book chapter:

Eggen, T., Vogelsang, C. 2015. Chapter 7. Occurrence and Fate of Pharmaceuticals and Personal Care Products in Wastewater. In: Eddy Y. Zeng (Ed.) Persistent organic pollutants (POPs): Analytical techniques, environmental fate and biological effects. Edition: Comprehensive Analytical Chemistry 67. Elsevier pp. 245-294.

Eggen, T., Lillo, C. 2016. Chapter 10. Role of transporters for organic cations in plants for environmental cycling of pharmaceutical residues. In: Giuliano Ciarimboli, Sophie Gautron, and Eberhard Schlatter (Eds.) *Organic Cation Transporters—Integration of Physiology, Pathology, and Pharmacology*. Springer International Publishing, pp.243-256. ISBN 978-3-319-23792-3.

Publication rang B (light review- and proceedings)

Berg, J.D., Eggen, T. 1991. Enhanced Composting for Cold-Climate Biodegradation of Organic Contamination in Soil, EPA Forum on Innovative Hazardous Waste Technologies, Dallas, Texas, 11-13 June.

Berg, J., Eikum, A., Eggen, T., Selfors, H. 1991, Cold-Climate Bioremediation: Composting for Biodegradation of Organic Contamination at a Coke Work, Environmental Northern Seas Conference, Stavanger, Norway, 26-30 August.

Berg, J., Eikum, A., Eggen, T., Selfors, H. 1991, Cold-Climate Bioremediation: Composting and Groundwater Treatment Near the Arctic Circle at a Coke Work, Hazardous Material Control/Superfund'91, Washington DC., USA, 3-5 December.

Eggen, T., Araneda, E., Vethe, Ø, Sveum, P. 1999. Degradation of Aged Creosote-Contaminated Soil by *Pleurotus ostreatus*, In: Leeson, A., Alleman, B.C. (eds.) *Bioremediation Technologies for Polycyclic Aromatic Hydrocarbon Compounds*, Battelle Press, Columbus, Ohio, pp. 99-104.

Eggen, T., Sveum, P. 2001. DDT degradation by chemical oxidation and white rot fungi. In: Magar, V.S., von Fahnstock, M.F., Leeson, A. (eds.), *Ex Situ Biological Treatment Technology*, Battelle Press, pp. 157-164.

Eggen, T. 2003. Spent Mushroom Substrate: White Rot Fungi in Aged Creosote Contaminated Soil, In: Sasek, V., Glaser, J.A., Baveye, P. (eds.) *The utilization of bioremediation to reduce soil contamination: problems and solutions*, Kluwer Academic Publishers, Dordrecht, pp. 335-340.

Kitterød, N.-O., Amundsen, C.E., Snilsberg, P., Aasen, R. & Eggen, T. 2007. Transport modeling of tributyltin coupled to variable salinity. In: Candela, L., Vadillo, I., Aagaard, P., Bedur, E., Trevisan, M., Vanclooster, M., Viotti, P., López-Geta, J.A. (eds.). COST Action 629 - European Cooperation in the field of Scientific and Technical researchInternational Conference on WAtter POllution in natural POrous media at different scales. Assessment of fate, impact and indicators. WAPO2, Barcelona, Spain, 11-13 April, pp. 651-661.

Eggen, T., Möder, M., Arukwe, A. 2011. Emerging contaminants in consumer products: Environmental fate and transfer to human food-chain. In: Popov, V., Brebbia, C.A. (Eds.) *Food and Environment. The Quest for a Sustainable Future*. WIT press, Southampton, pp. 89-94.

Eggen, T., Odenmarck, S.R., Løen, A.-K. 2013. Translocation of imidacloprid from coated rape (*Brassica napa*) seeds to nectar and pollen. NJF seminar 461 Organic farming systems as a driver for change. Bredsten, Denmark 21-23 August 2013.

McKinnon, K., Serikstad, G.L., Eggen, T. 2013. Contaminants in manure – a problem for organic farming? NJF seminar 461 Organic farming systems as a driver for change. Bredsten, Denmark 21-23 August 2013.

Eggen, T., Soran, M-L. 2015. Integrating Nano- and Micro particles in Practical Decontamination Processes for Water and Sediments in a Green Technology Approach. 10th

International Conference, Processes in Isotopes and Molecules (PIM 2015). Cluj-Napoca, Romania 23-25 Sept. 2015. AIP Conference Proceedings 1700, 020001 (2015); doi: 10.1063/1.4938433. online <http://dx.doi.org/10.1063/1.4938433>.

International conferences & workshops ORAL

- Eggen, T. 1999. Degradation of Aged Creosote-Contaminated Soil by *Pleurotus ostreatus*, In Situ and On-Site Bioremediation, San Diego, April 19-22.
- Eggen, T., Sveum, P. 2001. DDT degradation by chemical oxidation and white rot fungi. In Situ and On-Site Bioremediation, San Diego, June 4-7.
- Eggen, T. 2001. DDT degradation by chemical oxidation. NordSoil seminar – Experiences in the Nordic countries, Oslo, Apr. 23-24.
- Eggen, T., Majcherzyk, 2002. DDT degradation in fresh water sediment – effect of elementary iron and temperature. 3rd European Meeting on Environmental Chemistry, Geneve, December 11-14.
- Eggen, T. 2003. Use of white rot fungi in a bioremediation aspect. Coldrem symposium "Interactive research on soil remediation", Lund, Sverige January 14-15.
- Eggen, T., Majcherzyk, 2003. Application of elementary iron for degradation of a strongly oxidized organic pollutants in sediment – model component DDT. International Conference on Remediation of Contaminated Sediments, Venice, September 30 – October 3.
- Eggen, T. 2003. Use of spent mushroom substrate for bioremediation of polluted soil. Presented at seminar "Mycoremediation 2003", Prague, Czech Republic, October 9 – 10.
- Eggen, T. 2005. Low-tech remediation of contaminated environments. Workshop: Demonstration of integrated, intersectoral approach to persistent organic pollutants used in plant protection and vector control in Nepal, Thailand and Vietnam. Bangkok. 20-23. November 2005.
- Eggen, T., Thoresen, L. 2007. Stimulation of Reductive Dehalogenation of Brominated Flame Retardants in Contaminated Lake Sediment with Addition of Gypsum Slurry and Zero-Valent Iron (Fe^0). The 4th European Conference on Oxidation and Reduction Technologies for In-Situ Treatment of Soil and Groundwater, Amsterdam, Netherlands October 16-18, 2007.
- Eggen, T., et al. 2011 Emerging contaminants in consumer products: Environmental fate and transfer to human food-chain. 1st Conference Food and Environment. Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment, New Forest UK. June 21-25. 2011.
- Eggen, T. 2013. Uptake and translocation of emerging organic pollutants in different high-volume crops. Presentation at summer school Ph.D course 'Modeling of Plant Uptake'. June 17th- 21th Denmark Technical University (DTU), Lyngby, Denmark.
- Eggen, T. et al. 2014. Uptake and translocation of imidacloprid to nectar and pollen in sunflower and raspberry, SETAC Basel. 12th -15th May.
- Eggen, T. 2015. Is it time for standardization of plant uptake experiments? Presentation at summer school Ph.D course 'Modeling of Plant Uptake'. August 17th- 21th Denmark Technical University (DTU), Lyngby, Denmark.
- Eggen, T. 2015. Invited key-note speaker. Integrating nano- and microparticles in practical decontamination processes for water and sediment in a green technology approach. 10th International Conference, Processes in Isotopes and Molecules (PIM), September 23th-25th, Cluj-Napoca, Romania.

Eggen, T. 2016. Dehalogenation of brominated flame retardants (BFRs) in sediment. International Symposium on Persistent Toxic Substances (ISPTS) October 11th-14th, Leipzig, Germany.

Eggen, T., Barcló, D., Pérez, S., Linebreda, P., Schröder, Huber, C., Chiron, S., Gomez, E., Kästner, M., Føreid, B., Marin-Laurent, F., Sole, M., Chiron, S., Fenet, H. AWARE – Assessing the fate of pesticides and water-born contaminants in agricultural crops and their environmental risks. Water JPI. WaterWorks2015 Kick-off meeting 6th April 2017. Stockholm.

International presentations POSTER

1. Eggen, T., Sveum, P. 1996. Decontamination of Aged Creosote Contaminated Soil with White Rot Fungus, Third International Symposium and Exhibition on Environmental Contamination in Central and Eastern Europe, Warsawa, Polen, Sept. 10-13
2. Eggen, T., Amundsen, C.E., Araneda, E., Lindjordet, R., Sørheim, R. 1999. Degradation and mobility of PAH in strongly contaminated soil treated with white rot fungi. International Symposium on Polycyclic Aromatic Compounds (ISPAC), Bordeaux
3. Eggen, T. 2003. White rot fungi in aged creosote contaminated soil. NATO Advanced Research Workshop. Liblice Castle, Czech Republic, June 14-19
4. Eggen, T., Snilsberg, P., Möder, M. 2003. Organic compounds in leachates from municipal landfill. Svensk-norsk miljøkjemisk vintermøte. 12-14 mars, Storlien, Sweden
5. Hanslin, H.M., Eggen, T., Engen, G.K. 2005. DDT uptake in food and forage plants. COST 859 meeting, Pisa, Italy, 13-16 June
6. Søvik, A.K., Eggen, T., Snilsberg, P., Källenborn, R., Möder, M., Stuanes, A., Haltbakk, J. 2004. Legemidler og muske stoffer – tilbakeholdelse i sandig akvifer. Svensk-Norska Miljøkjemiske Vintermøte, Geilo, 16-18 februar
7. Eggen, T., Sørheim, R. 2006. Dehalogenation of DDT sediment. The effect of temperature and zero-valent iron. Contaminated Freezing Ground Conference. Oslo. May 21 – 25
8. Hanslin, H.M., Overgaard, H., Eggen, T. 2006. Uptake and accumulation of DDT and its metabolites in plants and forage. 4th European Conference on Pesticides and Related Organic Micropollutants in the Environment and The 10th Symposium on Chemistry and Fate of Modern Pesticides. Almeria, Spain. November 26-29
9. Eggen, T., Möder, M., Arukwe, A. 2010. Emerging organic compounds: Sources and fate through a waste water treatment plant. 3rd Norwegian Environmental Toxicology Symposium – Emerging solutions for emerging challenges. Bergen, 15-16 April
10. Eggen, T. 2011. Uptake and translocation of xenobiotics in cereals and seeds of turnip rape. 11th Scandinavian Plant Physiology Society (SPPS) Congress. Stavanger, 20-25th August
11. Eggen, T., Trapp, S. 2011. Experiments and simulations to plant uptake of emerging compounds. 3th International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment. Copenhagen, Denmark, 23-26 August
12. Macherius, A., Eggen, T., Lorenz, W., Reemtsma, T., Möder, M. 2011. Uptake and Transformation of Xenobiotics in Carrot Plants and Carrot Cell Cultures. 3th International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment. Copenhagen, Denmark, 23-26 August
13. Eggen, T. 2011. Uptake and translocation of xenobiotics in cereals and seeds of turnip rape. 11th Scandinavian Plant Physiology Society (SPPS) Congress. Stavanger, 20-25th August

14. Eggen, T., Trapp, S. 2011. Experiments and simulations to plant uptake of emerging compounds. 3th International Conference on Occurrence, Fate, Effects, and Analysis of Emerging Contaminants in the Environment. Copenhagen, Denmark, 23-26 August
15. Rein, A., Legind, C., Eggen, T., Trapp, S. 2012. Combined modeling of plant uptake and leaching of heavy metals and organic compounds
16. Eggen, T., Odenmarck, S.R., Løen, A.-K. 2013. Translocation of imidacloprid from coated rape (*Brassica napa*) seeds to nectar and pollen. NJF seminar 461 Organic farming systems as a driver for change. Bredsten, Denmark 21-23 August 2013
17. McKinnon, K., Serikstad, G.L., Eggen, T. 2013. Contaminants in manure – a problem for organic farming? NJF seminar 461 Organic farming systems as a driver for change. Bredsten, Denmark 21-23 August 2013
18. Eggen, T., Lillo, C. 2014. Uptake of nitrogen containing medical compounds in plants and translocation to edible parts of cereals, oily seeds, beans, tomatoes, squash, carrots and potatoes. Int. workshop on organic nitrogen and plant nutrition – from molecular mechanisms to ecosystems. Ascona. Switzerland. Feb. 9-13. 2014
19. Eggen, T., Arukwe, A. 2014. Anaerobic transformation of 10:2 fluorotelomer alcohol (10:2 FTOH) and 6:2 fluorotelomer sulfonate (6:2 FTS). SETAC Basel. 12-15 May
20. Trapp, S. Doucette, W.J., Fantke, P., Eggen, T. 2016. A suggested minimum data list to be reported for experimental plant uptake studies. SETAC Nantes France 22-26 May 2016
21. Eggen, T. Risk assessment of organic chemical contaminants in sewage sludge. Poster presentation at “Workshop on pharmaceuticals and organic chemicals in sewage biosolids: questions for recycling. Malmö 27. October. 2016.

Co-author of risk assessment reports for Norwegian Scientific Committee for Food Safety (VKM):

VKM 2009. Risk assessment of contaminants in sewage sludge applied on Norwegian soils. Opinion of the Panel on Contaminants of the Norwegian Scientific Committee for Food Safety, ISBN 978-82-8082-337-3. Online: <https://vkm.no/download/18.645b840415d03a2fe8f1293/1501260413588/2ae7f1b4e3.pdf>

VKM 2015. The risk of development of antimicrobial resistance with the use of coccidiostats in poultry diets. Opinion of the Panel on Animal Feed of the Norwegian Scientific Committee for Food Safety, ISBN: 978-82-8259-185-0, Oslo, Norway. Available online: <https://vkm.no/download/18.2994e95b15cc5450716152d3/1498142579152/0025301628.pdf>

VKM 2019. Risk assessment of cadmium in mineral fertilisers – fate and effects in the food chain and the environment. Opinion of the Panel on Animal Feed of the Norwegian Scientific Committee for Food and Environment.

Selected presentation national meetings & conferences

Eggen, T. Norli, H.R. Farmasøytsiske preparater på avveie (Pharmaceuticals in the environment). Konferanse: Avfall innlandet, Lillehammer, 27.-28. januar 2005.

Eggen, T. Deponier som kilder til nye og gamle miljøgifter (Municipal landfills as a source for emerging and legacy contaminants). Miljøringen Bergen 9-10 november 2005.

Eggen, T. Miljøgifter i sigevann. Norsk Vann seminar. 14. november 2006

Eggen, T., Berg, B., Sørheim, R. 2006. Miljøgifter i deponier – en utfordring? (Contaminants in municipal landfills – en challenger?) Avfall Norge Seminar: Deponering av avfall. Oslo, 11-12. oktober, 2006

Eggen, T. Rensing av miljøgifter i sigevann – hva er viktige faktorer? (Treatment of contaminants in leachates – what are important factors?) Foredrag Vannforeningen 28.02.07

Eggen, T. Jakten på miljøgifter. Hvilke stoffer er det fokus på innen FoU-miljøene? Noen resultater fra undersøkelser og planer fremover. Kilder til påslipp, synspunkter på sigevannspåslipp (The hunting for contaminants. What compounds do focus? Sources for discharge). Norvar fagtreff for påslipp. 27.11.07.

Eggen, T. Fosforresirkulering – hva får vi med på kjøpet? (Phosphorus – what come in additional?) Avfall Innlandet. Lillehammer 31.01-01.02 2008.

Eggen, T. Sigevann fra deponi – analyser påslipp fra ISI avfallsdeponi og innløp VEAS (Leachates from municipal landfill – analysis of discharge from ISI landfill and influent to VEAS WWTP). Påslippsforum Norsk Vann. Oslo SFT 15.10.08.

Eggen, T. Planter og opptak av miljøproblemstoffer (Plants and uptake of contaminants). Miljøringen Oslo SFT 12-13 november 2009.

Eggen, T. Opptak av organiske forbindelser i nyttevekster: variasjon i plantedeler og validering av planteopptaksmodeller (Uptake of organic substances in plants: variations in plant compartments and validation of plant uptake models). Bioforsk konferansen. Sarpsborg. Februar 2010.

Eggen, T., Grimstad, S. Mattrygghet – opptak og fordeling av helseskadelige stoffer i planter. Risikovurdering: Hva kan kunnskap om ulike planters opptak og fordeling av potensielle helseskadelige stoffer brukes til? Bioforsk-konferansen. Sarpsborg 9-10 februar.2011.

Eggen, T., Grimstad, S. Mattrygghet – opptak og fordeling av helseskadelige stoffer i planter. Fra planter til mennesker – akkumulering og overføring av organiske fremmedstoffer i primær-næringskjeden. Bioforsk-konferansen. Sarpsborg 9-10 februar 2011.

Eggen, T. Kilder og overføringsveier av organiske fremmedstoffer til jord og planter: hva vet vi og hva vet vi ikke – sett i lys av regulering av økologisk landbruk. Nordisk seminar om uønskede stoffer i husdyrgjødsel. Kringler gård 23-24.10.2012

Eggen, T. Ansvarlig og prosjektleder for dialogkonferanse i Rogaland. Fosfor til nytte eller besvær? Erfaringsoverføring fra VRI-prosjekt ‘Karakterisering av fosforsammensetning i husdyrgjødsel’. 14.05.2013.

Eggen, T. Rogaland har et fosfor-fortrinn – la oss bruke det! Særheimdagen 14.10.2014.

Eggen, T. Metodeutvikling for bruk av biota i risikovurdering av PFAS forurensede lokaliteter. Miljøringen 2-3. juni 2015.

Eggen, T. Metodeutvikling for bruk av biota i risikovurdering av PFAS forurensede lokaliteter. Miljødirektoratet. Workshop om risiko og kartlegging av PFAS. Organisert av Miljødirektoratet og Miljøringen. 26.11.2015.

Eggen, T. How to reduce transport of mobile pesticides in the environment to water sources? Norwegian Society for Pharmacology and Toxicology. Spring Meeting: Focus on pesticides and effects on humans and the environment. 19.04.2018. Oslo 2018.

Eggen, T. Forurensing i restprodukter: kilde, miljø, mennesker og dyr. NIBIO konferansen 13.02. 2019.

Popular communication – chronicle- fact pages

- Kronikk
 - Eggen, T. 2016, Nationen, Kronikk 17.08.2016. ‘Gjenvinning av fosfor’
‘Recirculation of phosphate’.
<http://redir.opoint.com/?key=iXXqN14Mt740aImjrZaj>
- Kommunalteknikk:
 - Eggen, T., 2002. Sigevann fra avfallsfyllinger – inneholder hvilke avfallsstoffer? Kommunalteknikk 12/2002
 - Haarstad, K. & Eggen, T. 2007. Utfordrende miljøgifter i sigevann fra avfallsdeponier. Kommunalteknikk 3/2007: 40-43.
- Knutepunkt: Amundsen, C.E., Kitterød, N.-O. & Eggen, T. 2007. Knutepunkt 5(9):16.
- Park & Anlegg: Sæbø, A., Eggen, T. Busker og trær samler forurensning og kan bidra til reinere luft. Park & Anlegg 5-09:27.
- Bondevennen: Eggen, T., Paulsen, G., Randby, J., Hellesø, H., Husveg, O. 2013. Ny kunnskap om fosfor i gjødsel og jord. Bondevennen Nr. 47. 22 november, side 12-13.
- Gartneryrket: Eggen, T., Eriksen, A.S., Grimstad, S.O. 2015. Plantevernmidler fra veksthus på avveie. Gartneryrket nr 4/2015, 14-18.

Facta sheet:

- Eggen, T., Røyset, O. 2014. Utprøving av DGT for å måle plantetilgjengelighet og frigjøring av fosfor fra landbruksjord – forprosjekt. Forprosjekt for Stiftelsen fondet for jord- og myrundersøkelser
http://www.bioforsk.no/ikbViewer/Content/122835/Endelig%20Faktaark%20DGT_fosfor%20i%20jord%20Eggen%20Røyset.pdf

Selected reports (from 2000):

Eggen, T. og P. Sveum. 2000. Demonstrasjon og utforming av metoder for behandling av DDT-forurensede, oppgravde jordmasser. Jordforsk Rapport 116/2000.

Eggen, T., Stuanes, A. 2001. Karakterisering av TNT-forurensset jord fra Mellomøya, Horten. Jordforsk rapport29/01.

Eggen, T., Stuanes, A. 2001. Rensemетодer for TNT-forurensede masser. En litteratursammenstilling. Jordforsk rapport30/01.

Eggen, T., A. Stuanes, I. Muniz, C. E. Amundsen og L. Sverdrup. 2003. TBT i forurensede sedimenter. Potensiell utelekking fra deponier og toksiske virkninger ovenfor jordlevende organismer. Jordforsk Rapport 68/03.

Eggen, T., Eklo, O.M., Haraldsen, T., Källqvist, T., Stuanes, A., Uhlig, C. 2003. Utredning a av tidligere arealspredd DDT på skogplanteskoler med hensyn til konsekvenser og behov for tiltak. Jordforsk rapport nr. 110/03.

Eggen, T., O.M. Eklo, T. Haraldsen, T. Stuanes, og A. Uhlig. 2003. Utredning av tidligere areal spredd DDT på skogplanteskoler med hensyn til konsekvenser og behov for tiltak.. Jordforsk Rapport 110/03.

Eggen, T., P. Snilsberg og M. Môder. 2003. (In English) Organic compounds in municipal landfill leachate. Pharmaceuticals and musk compounds - an environmental problem? Jordforsk Rapport 67/03.

Fjeld, E., Schlabach, M., Berg, J.A., Eggen, T., Snilsberg, P., Källberg, G., Rognerud, S., Enge, E.K., Borgen, A., Gundersen, H., 2004. Mapping of selected emerging organic

pollutants (brominated flame retardants, chlorinated paraffins, bisphenol A and triclosan). SFT report 2004. TA-2096/2005.

Eggen, T. 2004. Kartlegging og risikovurdering av DDT i Ørsjøen. Jordforsk Rapport 91/04.

Fjeld, E., Schlabach, M., Berg, J.A., Green, N., Eggen, T., Snilsberg, P., Vogelsang, C., Rognerud, S., Kjellberg, G., Enge, E.K., Dye, D.A., Gundersen, H., 2005. Mapping of selected emerging organic pollutants (brominated flame retardants, PFCs etc). SFT report 2004. TA-2096/2005.

Eggen, T. og O. Harbo. 2005. Praktiske tiltak for stimulering av nedbrytning av DDT i jord.. Jordforsk Rapport 99/05.

Eggen, T., H.M. Hanslin, A. Stuanes og G. Engen. 2005. Opptak av DDT i planter. Jordforsk Rapport 72/05.

Snilsberg, P., T. Eggen, E. Fjeld og M. Schlabach. 2005. Vurdering av bromerte flammehemmere til Mjøsa fra deponier, kommunale renseanlegg og elver. Jordforsk Rapport 65/05.

Eggen, T., Hanslin, H.M., Sæbø, A. 2006. Tiltaksmetoder for nedbrytningen av DDT I sedimenter. Bioforsk rapport Vol. 1 Nr. 19, 2006.

Berge, J.A., Amundsen, C.E., Eggen, T., Hylland, K. & Bøe, E. 2006. Naturlig nedbrytning og biotilgjengelighet av tinnorganiske forbindelser i marine sedimenter. ISBN 82-577-4694-0. SFT rapport TA-nummer 2091/2005.

Hanslin, H.M., Eggen, T. 2006. Opptak av bromerte flammehemmere I planter. Bioforsk rapport Vol. 1 Nr. 83. 2006.

Eggen, T., Hanslin, H.M. & Sæbø, A. 2006. Tiltaksmetoder for nedbryting av DDT i forurensede sedimenter. Bioforsk Rapport 1 (19) 2006.

Eggen, T., Myhre, L.P., Kleiv, R.A., Amundsen, C.E., Thornhill, M., Kitterød, N.O., Nævdal, A., Westerlund, S. & Sørheim, R. 2006. Testprogram for overskudds- og restmasser som planlegges brukt til tildekking av forurensede sedimenter. SFT rapport TA-nummer: 2143/2005.

Snilsberg, P., Kitterød, N.-O., Aasen, R., Eggen, T. & Amundsen, C.E. 2006. Transport av tributyltinn fra sjønære deponier. Bioforsk Rapport Vol. 1 Nr. 139.

Hanslin, H.M., Eggen, T. 2007. Akkumulering av tungmetaller i planter – en litteraturstudie. Bioforsk rapport Vol. 2 Nr. 138.

Hanslin, H.M., Eggen, T., Gawronski, S. 2007. Heavy metal uptake and translocation in grasses. Bioforsk report 2(139) 2007. (For The Norwegian Defence Estates Agency, In English).

Olstad, G. Sæland, S. Eggen, T. Bruskeland, O. 2008. Tiltaksplan for DDT-forurensset innsjøsediment. Multiconsult rapport 117579-1.

Amundsen C.E., Sørheim, R., Forfang, I., Aasen, R., Hartnik, T., Næs, K., Eggen, T. 2008. Screening of polyfluorinated organic compounds at four fire training facilities in Norway. SFT report TA-2444/2009.

Sæland S. Eggen T, med flere. 2010. Oppdatering av tiltaksplan. DDT-forurensset innsjøsediment Ørsjøen. Multiconsult rapport 812577/1

Eggen, T., Odenmarck, S.R. 2012. Opptak og translokering av insektmidlet imidakloprid i kulturplanter – eksponering av bier. Bioforsk Rapport vol. 7 Nr. 169.

Grete L. Serikstad, Kirsty McKinnon, Trine Eggen. 2012. Uønskede stoffer i husdyrgjødsel. Konvensjonell husdyrgjødsel brukt i økologisk drift – er det problematisk? Bioforsk Rapport Vol. 7 Nr. 28.

Eggen, T., Odenmarck, S.R. Torp, T. 2013. Opptak og translokering av insektmidlet imidakloprid fra planteavfall til nektar og pollen i trekkplantene bringebær og solsikker – en mulig eksponeringsvei for pollinerende insekter. Bioforsk Rapport vol. 8 Nr. 149.

Eggen. T. Tiltak for å redusere innhold av bromerte flammehemmere (polybromerte difenyleter, PBDE) i slam og utløp – gjennomgang av litteratur. Notat for IVAR AS. 2015.

Eggen, T. Metodeutvikling for bruk av biota i risikovurdering av PFAS forurensede lokaliteter. Notat for Miljødirektoratet 2015.

Eggen, T., Escudero, C., Værøy, N., Hauge, A. 2018. Organisk fosfor i innsjøsediment og tiltak for å redusere bidrag til eutrofisering. NIBIO Rapport 4(88) 2018.

Eggen, T., Heimstad, E.S., Nikiforov, V., Vogelsang, C. 2019. Maximum limit values for selected hazardous organic contaminants (HOCs) in secondary raw materials used in fertilisers and soil products. NIBIO report 5/110/2019. For Norwegian Environment Agency.