

CURRICULUM VITAE

Name of Firm: Norwegian Institute for Water Research (NIVA)
Name of Person: **Bente Margrethe Wathne**
Nationality: Norwegian
Date of birth: 19.07.50
Civil status: Married, 3 children
Profession: Siviling. M.Sc.
Position in Firm: Senior Research Scientist, Business Development Coordinator - China
Specialization in Firm: Environmental technology, environmental surveillance and information systems, effects of acid rain and long-range transported air pollution, industrial water pollution
Years with Firm: 19 years

Key qualification:

Management and development of international projects within environmental technology, environmental surveillance and information systems, effects of acid rain and long-range transported air pollution,
Management of a research department
Water pollution and water chemistry, especially effects from acid rain and industry
Environmental technology and monitoring

Education:

1974 Technical University of Norway, Trondheim. Siviling. M.Sc. Physical chemistry
1970 University of Oslo. Mathematics and chemistry
1969 Highschool. Nadderud Gymnas – Realartium

Experience:

1986- **Norwegian Institute for Water Research (NIVA)**
Senior Research Scientist, Section for Long-Range Transported Air Pollution and Section for Development Cooperation 2004-
Senior Research Scientist, Department of Freshwater and Technology 2002-2004
Head of Research Department of Environmental Technology 1996-2001
Research Manager in the fields Environmental Monitoring Technology and Industrial Pollution from 1993-96.
Research Scientist in Environmental Sciences department 1986 - 1993

1986-

Experience from NIVA:***Development and management of extensive projects supported by EU Research Programmes;***

- within effects of acid rain and long-range transported pollution: AL:PE 1 (1991-93), AL:PE 2 (1993-95), MOLAR (1996-99) and EMERGE(2000-2003). In all projects with responsibilities for scientific management and as member of the Steering Group. The largest of these projects EMERGE, involved over 120 scientists from 26 institutes in 15 European countries.
- within environmental technology: MASURIN (2002-2004) and EUREKA project EnMoS (2001-2002).

Development and management of projects in the areas:

- environmental technology projects supported by NORAD (Norwegian Department of Foreign Aid and Development) in China. Includes extensive projects with involvement of several Chinese and Norwegian actors. 1995-
- environmental information and surveillance system of water quality during the Olympic Games at Lillehammer 1994,
- acid rain - international cooperation, ECE/UN projects with NIVA as administrative and/or scientific responsible,
- acid rain – scientific and national monitoring programmes
- co-operative projects in Poland and Slovakia supported by bilateral national programmes on the environment and Critical Loads calculations
- industrial water pollution, i.a. pulp and paper, food and mining industry
- environmental technology, i.a. continuous measurements and monitoring in rivers, and environmental information and surveillance systems,

1975-86

Norwegian Institute for Air Research (NILU)***Research Scientist at:***

- Project department 1983-86
- Organic chemistry lab. 1975-82

Key activities within air pollution:

- Pollution from industry, traffic, incineration, long-range transport,
- Measurements of components in outdoor and indoor air

Experience from NILU:***Developing and organizing analytical methods i.a.***

- measurements of hydrocarbons and chlorinated organics i.a. in the Grenland area
- automatic sampling and measurements of peroxyacetylnitrate (PAN), with measurements in Oslo and Grenland together with ozone measurements
- measurements of terpenes, released from coniferous forests
- measurements of benzene, toluene and xylenes in air, released from petrol and solvents and registered in city and industrial air
- analytical methods and regulations for lab work

Management and participation in projects in the areas:

- industrial air pollution, i.a. diffusion and analytical organic substances and odor components
- traffic pollution, especially from lead and aromatic compounds, and environmental impacts of methanol as car fuel
- release from incineration, especially effects from hydrochloric acid and heavy metals
- indoor air pollution, i.a. particles, fibres, formaldehyde and other organic compounds in residences and working places

1975

Agricultural University of Norway, Chemical department.

Scientific assistant 1/2 position. Teaching students and working with organic chemistry/plant chemistry

1974-75 **Brewing Industry Research Laboratory**
Diploma and part time job

1970-74 **Brewing Industry Research Laboratory**
Trainee during student holidays

Member of boards, etc.:

- 1986- **Member of the board** as staff representative, NIVA
Vice member of the board as staff representative, NIVA
Chairman, Norwegian Society of Chartered Engineers (NIF) – NIVA
Secretary, NIF - NIVA
Member of conference committee in:
- The Norwegian Water Association(Vannforeningen), Conference committee (Møtekomitéen), from 2002 as chairman
 - The Norwegian Water Association(Vannforeningen), Conference committee (Møtekomitéen), from 2000 as member
 - NTNFMiljøteknisk Forum - Miljøovervåking i informasjonssamfunnet, 1991
 - NIF/Den Norske Dataforening - Industriutslipp og områdeovervåking, 1990
- Member of:**
- EU programme - ENS/ENVIRONET User Group
 - Norwegian General Standardizing Body - Environmental Performance Evaluation (Norsk Allmenn-Standardisering - Vurdering av bedriftenes miljøstatus,) TK 7/FG 4
 - External examiner in Environmental Surveillance at the Regional College in Sogn og Fjordane/Førde.
- 1975-86 **Member of the board** as staff representative, NILU
Chairman, NIF - NILU
Vice chairman, NIF - NILU
Chairman in the Staff Association, NILU
Member of conference committee in:
- NVEF (Norsk Ventilasjon og Energiteknisk Forening) - Inneklimakurs, 1985
 - NIF – Klimasystemer - hvor går veien? 1986/87

Countries worked in:

Norway.

International projects have involved shorter visits in Italy, UK, Ireland, The Netherlands, Canada, Poland, Czech and Slovakian Republics, Slovenia, Spain, Austria and China, and cooperation on water chemistry results from Europe, US and Canada.

Languages:

English Fluent
 German Some
 French Very sparse

Date:

Signature:

Publications:

- Jacobsen, T., Wathne, B., Lie, S.: Chelators and Metal Buffering in Fermentation. *Journ. Inst. Brew.* vol. 83. s139 - 143 , 1977.
- Wathne, B.M.: Analysis of Maleic, Fumaric and Succinic Acids in Air by use of Gas Chromatography. *Analyst* vol. 105. s.400 - 403 , 1980.
- Thrane, K.E., Oehme, M., Wathne, B.M.: Prøvetaking av kreftfremkallende forurensninger i uteluft. Foredrag på seminar om luftforurensninger og kreft, Statens Forurensningstilsyn Oslo, 16. mars 1981
- Wathne, B.M.: Measurements of Benzene, Toluene and Xylenes in Urban Air. *Atm. Env.* vol. 17. s. 1713 - 1722 , 1983.
- Hov, Ø., Schjoldager, J., Wathne, B.: Measurements and Modelling of the Concentrations of Terpenes in Coniferous Forest Air. *J. Geophys. Res.* vol. 88. s 10,679 - 10,688 1983.
- Wathne, B.M.: Luftforurensninger inne, hva kan vi måle og hva har vi målt? Foredrag på kurs i Norsk Ventilasjon- og energiteknisk forening, Bergen, Levanger og Harstad, 1985.
- Henriksen, A., Wathne, B.M., Røgeberg, E.J.S., Norton, S.A., Brakke, D.F.: The role of stream-substrates in aluminium mobility and acid neutralization. *Wat. Res.* vol. 22.no 8, s1069-1073, 1988.
- Norton, S.A., Henriksen, A., Wathne, B.M., Veidel, A.: Aluminium dynamics in response to experimental additions of acid to a small Norwegian stream. Proceedings from "Acidification and Water Pathways". Bolkesjø 4. - 5. May, 1987.
- Wathne, B.M., Pettersen, K.A.: Vannmålere: Med nytt utstyr kan NIVA utføre nøyaktige vannmengdemålinger. *Teknikk og miljø* Vol 19, 1988.
- Wathne, B.M.: NIVA's mobillaboratorium - MOBILLAB-NIVA Foredrag på Norsk Limnologforenings seminar på Sundvolden 6. september 1988.
- Wathne, B.M., Henriksen, A.: Forsuring av overflatevann. Foredrag på kurs om forurensning og naturforvaltning. Opplæring av miljøvernledere i primærkommunene. MIK prosjektet. Sundvolden 2. - 6. oktober 1989.
- Wathne, B.M.: Eksempler på sensorer for vannmålinger. Foredrag på NIF - kurs: Industri og Miljøovervåking. Gol 21. -23. mars 1990.
- Wathne, B.M., Mosello, R., Henriksen, A., Marchetto, A.: Comparison of the chemical characteristics of mountain lake in Norway and Italy. Proceedings from "Acidification Processes in Remote Mountain Lakes" Pallanza 1989. CEC/UN Air Pollution Research Report, Brussel, 1990.
- Wathne, B.M., Henriksen, A., Norton, S.A.: Buffering capacity and effects of river substrates during acidic episodes. Poster proceedings from "Acidic Deposition its Nature and Impacts". Glasgow 16. - 21. September 1990.
- Røgeberg, E.J.S., Wathne, B.M.: Moss as a natural ion exchanger during acidification processes. Poster proceedings from "Acidic Deposition its Nature and Impacts". Glasgow 16. - 21. September 1990.

- Englund, G., Bakketun, Å., Wathne, B.M., Laake, M.: Anaerobic toxicity and biodegradation of some chlorinated aromatic compounds in industrial wastewater. Poster proceedings from "International Symposium Environmental Biotechnology". Ostend 22. - 25. April 1991.
- Gjessing, E.T., Wathne, B.M.: Polluted precipitation, actual and potential effects on drinking water quality. Technical papers from the 18th International Water Supply congress and exhibition. Copenhagen 25 - 31 May 1991.
- Gjessing, E.T., Wathne, B.M.: Forurenset nedbør, aktuelle og potensielle effekter på drikkevannets kvalitet. *VANN* nr. 3, 1991.
- Wathne, B.M., Fjellheim, A., Johannessen, M., Raddum, G.G., Rosseland, B.O., Battarbee, R.W., Patrick, S., Mosello, R.: AL:PE: Acidification of mountain Lakes: Palaeolimnology and Ecology. Poster presentation at "Limnology of Mountain Lakes", Stará Lesná, Czechoslovakia. 1. - 6. July 1991.
- Wathne, B.M., Røgeberg, E.J.S., Veidel, A.: Overvåking av Akerselva. Foredrag på Nordisk Vattenmøte, Jønkøping 10 mars 1992.
- Mosello, R., Wathne, B.M., Guissani, G. (Eds.) Workshop on: Limnology on groups of remote lakes: ongoing and planned activities. *Doc. Ist. Ital. Idrobiol.* N. 32:128 p 1992.
- Wathne, B.M. Acidification of mountain lakes: palaeolimnology and ecology. The AL:PE Project. In Mosello, R., Wathne, B.M., Guissani, G. (Eds.) Limnology on groups of remote lakes: ongoing and planned activities. *Doc. Ist. Ital. Idrobiol.* 32:7-22. 1992.
- Henriksen, A., Mill, W.A., Kot, M., Rzychon, D., Wathne, B.M. A joint Norwegian/Polish Investigation on Critical loads of acidity to surface waters: A case study from the Polish Tatra Mountains. Task Force Meeting of the International Cooperative Programme on Assessment and Monitoring of Rivers and Lakes, 8, Proceedings Winnipeg, Canada, 14-18 Sept. 1992.
- Wathne, B.M., Battarbee, R.W., Johannessen, M., Mosello, Patrick, S., R., Raddum, G.G., Rosseland, B.O., Lien, L., Tait, D., Massabuau, J.-C., Blake, G.: The AL:PE projects, first results and further plans. In Guissani, G. and Callieri, C. (Eds.): *Mem. Ist. Ital. Idrobiolo.* 52:341-354.
- Wathne, B.M., Rosseland, B.O. Norsk Miljøovervåking som grunnlag for internasjonale samarbeidsprosjekt. I: Stordal, F. og Fløisand, I.(Eds.). Tilførsler og virkninger av lufttransporterte forurensninger (TVLF): Forskning og overvåking. Sammendrag av foredrag og postere fra møte på Olavsgaard Hotell 2.-3. desember 1991. NILU OR 26/93.
- Wathne, B.M., Raddum, G.G., Cameron, N., Lien, L., Patrick, S.T. AL:PE 2 - Acidification of Mountain Lakes: Palaeolimnology and Ecology, Remote Mountain Lakes as Indicators of Air Pollution and Climate Change. Proceedings The International Symposium On The Ecological Effects Of Arctic Airborne Contaminants. Reikjavik, Island October 4-8 1993.
- Wathne, B.M., and Dagestad, K. ENSIS River. EUREKA Conference Lillehammer June 13-16, 1994.
- Wathne, B.M., Battarbee, R.W., Patrick, S.T., Johannessen, M., Cameron, N.G., Rosseland, B.O., Raddum, G.G., Fott, J. Mosello, R. and H.J.B. Birks. AL:PE 1. Acidification of Mountain Lakes: Palaeolimnology and Ecology AL:PE 2. Remote Mountain Lakes as Indicators of Air Pollution and Climate Change. Abstract book for the Acid Reign '95? Conference in Gothenburg 26 - 30 June 1995.

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- Mosello, R., Wathne, B.M., Lien, L., Birks, H.J.B. 1995. AL:PE projects: Water chemistry and Critical loads. *Water Air and Soil Pollution*. 85: 493-498, 1995.
- Thaulow, H., Wathne, B.M. and Sælthun, N.R. Freshwater Monitoring in Norway - Legislation, Network Optimisation, and Links to Modelling. Country Paper of Norway. In: Optimizing Freshwater Data Monitoring Networks including Links with Modelling. Proceedings from EurAqua Second Technical Review. Paris October 18 - 20, 1995.
- Wathne B. M., Dagestad K. og Røgeberg E J.S. Kontinuerlige Målemetoder - eksempler fra ENSIS-prosjektet: Environmental Surveillance and Information System. Foredrag ved NITO-kurs: KJEMISKE MILJØANALYSE FOR LABORATORIEPERSONELL. Oslo 16. - 17. november, 1995.
- Wathne, B.M. og Raddum, G.G. AL:PE prosjektet. Remote Mountain Lakes as Indicators of Air Pollution and Climate Change. I: Fløisand, I. og Løbersli, E. (Eds.). Lufttransporterte forurensninger - Tilførsler, virkninger og tålegrenser. Sammendrag av foredrag og postere fra møte på Klækken Hotell, Hønefoss 22.-24. januar 1996. NATURENS TÅLEGRENSE Miljøverndepartementet Fagrapport 77. NILU OR 2/96.
- Patrick S., Battarbee R. W., Wathne B.M. & Psenner, R.
Measuring and modelling the dynamic response of remote mountain lake ecosystems to environmental change: an introduction to the MOLAR project. European Conference on environmental and societal Change in Mountain Regions. Oxford, UK, December 1997
- Patrick S., Battarbee R. W., Wathne B.M. & Psenner, R.
Measuring and modelling the dynamic response of remote mountain lake ecosystems to environmental change: an introduction to the MOLAR project. Advanced data analysis for modelling and assessment of biogeochemical effects of air pollution in temperate ecosystems CIEMAT, Madrid, October 1997
- Mosello, R., Boggero, A., Marchetto, A. Wathne, B.M., and Lien, L. 1998. Chemistry of headwater lakes studies in the EU project "Acidification of mountain lakes: palaeolimnology and ecology (AL:PE)". - In: KOVAR, U. TAPPEINER, N.E. PETERS, R.G. CRAIG (Eds), *Hydrology, water resources and ecology in headwaters, Proceedings of the HeadWater'98 conference, Merano*: 395-401. International Association of Hydrological Sciences Publ. No. 248, IAHS Press, Wallingford.
- Patrick, S., Battarbee, R.W., Wathne, B.M., Psenner, R. 1998. Measuring and modelling the dynamic response of remote mountain lake ecosystems to environmental change: An introduction to the MOLAR project.) - In: KOVAR, U. TAPPEINER, N.E. PETERS, R.G. CRAIG (Eds), *Hydrology, water resources and ecology in headwaters, Proceedings of the HeadWater'98*

conference, Merano: 403-410. International Association of Hydrological Sciences Publ. No. 248, IAHS Press, Wallingford.

- Psenner, R., Mosello, R., Boggero, A., Marchetto, A., Wathne, B.M., Lien, L 1998. Mountain lake research (MOLAR): Atmospheric deposition and Lake Water Chemistry. Proceedings of SIL Congress Dublin 1998.
- Battarbee, R.W., Patrick, S., Wathne, B.M., Mosello, R., Psenner, R. 1998. Measuring and modelling the dynamic response of remote mountain lake ecosystems to environmental change (the MOLAR project.). Proceedings of SIL Congress Dublin 1998.
- Mosello, R et al. (The MOLAR Water Chemistry Group). 1999. The MOLAR Project: atmospheric deposition and lake water chemistry. *J. Limnol.* 58(2): 88-106.
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- Mosello, R., Lami, A. Marchetto, A., Rogora, M., Wathne, B.M., Lien, L. Catalan, J., Camarero, L., Ventura, M., Psenner, R., Sommaruga-Wograth, R., Thies, H., Nickus, U., Tait, D., Thaler, B., Barbieri, A., Harriman, R. 2000. Chemical evolution of high altitude lakes in Europe. Presented at International Symposium High mountain lakes and streams. Indicators of a changing world. 4-8 September 2000 Innsbruck, Tyrol, Austria.
- Bakken, T.H. and Wathne B.M. 2000. ENSIS – An Environmental Surveillance and Information System applied in the EMERGE project. Presented at International Symposium High mountain lakes and streams. Indicators of a changing world. 4-8 September 2000 Innsbruck, Tyrol, Austria.
- Wathne, B.M., Rosseland B.O., Psenner, R., Battarbee, R. and Patrick, S. 2000 The MOLAR Project A summary of the main results. Presented at International Symposium High mountain lakes and streams. Indicators of a changing world. 4-8 September 2000 Innsbruck, Tyrol, Austria.
- Psenner, R. Mosello, R., Boggero, A., Marchetto, A., Wathne, B. and Lien, L. (2000). MOUNTAIN LAKE RESEARCH (MOLAR): Atmospheric deposition and lake water chemistry. *Verh. Internat. Verein. Limnol.* 27: 1008-1011

Reports:

- Grønskei, K.E., Wathne, B.M.: Skorsteinhøyde - luktproblemer ved A/S Glassvatt, Askim, NILU OR 22/77, 1977
- Wathne, B.M.: Målinger i arbeidsatmosfære i plaststøperi ved Bakelittfabrikken A/S i Aurskog. NILU OR 29/77, 1977.
- Wathne, B.M.: Bestemmelse av vanddampdestillerbare fenoler i luft. NILU Forskrift FOG 2/77, 1977
- Wathne, B.M.: Utslippsmålinger, Harpikslimproduksjon, A/S Kem. Tekn. Fabr. "Krystall", Drammen. NILU OR 16/78, 1978.
- Wathne, B.M.: Lukt, luftforurensninger og spredningsforhold ved A/S Glassvatt i Askim. Med datavedlegg. NILU OR 24/78, 1978.

- Schjoldager, J., Wathne, B.M.: Innledende undersøkelser av hydrokarboner fra skog. NILU OR 62/78, 1978.
- Wathne, B.M.: Preparering av kolonnemateriale, pakking og kondisjonering av kolonner. NILU Forskrift FOG 3/78, 1978.
- Wathne, B.M., Leira, H.L.: Materialstrømsanalyse for diklormetan i Norge. NILU OR 11/79, 1979.
- Wathne, B.M., Vitols, V., Hanssen, J.E.: Metoder for måling av respirable partikler og nitrogenoksyder i arbeidsatmosfæren. NILU OR 9/80, 1980.
- Wathne, B.M.: Måling av nitrogenoksider og karbonmonoksid ved Jarlsberg Mineralvannfabrikk A/S. NILU OR 13/80, 1980.
- Wathne, B.M.: Benzenmålinger ved Televerket i Oslo. NILU OR 27/81, 1981.
- Wathne, B.M.: Målinger av benzen fra biltrafikk. NILU OR 30/81, 1981.
- Schjoldager, J., Wathne, B.M.: Målinger av terpenier i granskog, Gjerdrum 1980. Statlig program for forurensningsovervåking. Rapport nr.18/81. NILU OR 41/81, 1981.
- Wathne, B.M.: Målinger i arbeidsmiljø for fyringsmontører. NILU OR 47/81, 1981.
- Wathne, B.M.: Benzen i boliger. NILU OR 52/81, 1981
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- Schjoldager, J., Wathne, B.M., Brenna, D., Hov, Ø., Stige, L., Tveita, B.: Målinger av peroksyacetylnitrat (PAN) i Oslo og Nedre Telemark 1980 - 1982. NILU OR 27/83, 1983.
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- Wathne, B.M., Hov, Ø.: Miljøkonsekvenser ved bruken av metanol som drivstoff. NILU OR 16/85, 1985.
- Wathne, B.M., Hov, Ø.: Environmental impact of methanol as motor vehicle fuel. NILU OR 45/85, 1985.
- Haugsbakk, I., Wathne, B.M.: Løsemidler i utslipp og omgivelser ved Helly Hansen A/S i Moss. NILU OR 33/86, 1986.
- Wathne, B.M.: Luftmålinger i G-fløyen, Norsk Rikskringkasting Marienlyst. NILU OR 34/86, 1986.
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- Wathne, B.M.: Rapport fra interkalibrering av analyse av vinylklorid mellom Norsk Hydro og Norsk Institutt for Luftforskning. NILU TR 5/78, 1978.
- Wathne, B.M.: Isopren og terpenier i luft, foreløpige resultater. NILU TR 6/79, 1979.

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- Wathne, B.M.: Reiserapport fra VDI-kollokviet "Minderung von Geruchstoffemissionen" i Wiesbaden 13. og 14. mai 1981. NILU RR 5/81, 1981.
- Wathne, B.M., Hovind, H.: Instrumentering og prøvetaking ved enkel kontroll av utslipp til luft og vann. NIVA l.nr.1970. 1987.
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1993. ENVIRONMENT PROGRAMME. AL:PE Report 1/1994. Norwegian Institute for Water Research, Oslo 1994.
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