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Married to Sverre Løken, Ph.D. orthopaedic surgeon, Oslo University Hospital
4 children

Education

1997 Ph.D. (Dr. Polit), Department of Economics, University of Oslo, 1997.
Dissertation: "Intertemporal Analyses of Tax Policies in Open Economies". Supervisor:
Professor Diderik Lund.

1989/1990 Research Fee student at London School of Economics, London, UK.

1987 MSc (Cand. Oecon). Department of Economics, University of Oslo.

Professional experience

Present position: Senior Researcher (Forsker 0), Division for energy and environmental economics,
Research Department, SSB.

2016 Qualified as Senior Researcher/Professor equivalent (Forsker 0), evaluated by an external
expert committee.

2011- 2017 (January) Member of the management group of CREE (Oslo Centre for Research on
Environmentally friendly Energy) and workpackage leader. CREE is a social science FME (For
Miljøvennlig Energi)-center with the Research Department, Frisch center and Department of
Economics, UiO, financed by the Research Council of Norway (RCN), the RENERGI
programme.

2008 - present Senior Researcher, Division for economic growth and the environment/Division for
energy economics/Division for energy and environmental economics, Research Department, SSB.

2002 – 2008 Senior Researcher (Forsker 1) and Head of Research, Division for economic
growth and efficiency, Research Department, SSB, economic and personnel administration
responsibilities for the members of the Division and part of the leader group in the Research
Department. (Maternity leave in 2003),

2002 Qualified as Senior Researcher (Forsker 1), evaluated by an external expert committee.

2000-2002 Researcher and head of the group "Structural policy, efficiency and welfare" Division for macroeconomics, Research Department, SSB.

1999-2000 Senior adviser, Division for Tax Policy analyses, Ministry of Finance.

1997-1999 Researcher (Forsker 2), Division for Macroeconomics, Research Department, SSB.

1997 Qualified as Researcher (Forsker 0), evaluated by an external expert committee.

1991-1997 Ph.D student and Economist, Division for macroeconomics, Research Department, SSB. (Maternity leave 1.5.1992 to 1.9.1993, 50% position 1.9.1993 to 1.9.1994.)

1987-1990 Economist in Statistics Norway, Division for Energy and Environmental analyses, Research Department, SSB.

1985-1986 Student on engagement, Division for Energy and Environmental analyses, Research Department, SSB.

1986 Student on engagement, Department of Economics, University of Oslo.

Governmental committees

2015-2017, 2017-2019 Member of the advisory committee for Model and Methodological issues (re-nominated second period), Ministry of Finance.

2014-2015 Member of the expert committee assessing Green taxation (Green Tax Commission), NOU 2015:15, Sett pris på miljøet: Rapport fra grønn skattekommisjon, Ministry of Finance.

2012-2013 Member of the expert committee assessing wage formation in Norway (Holden III), NOU 2013:13 Lønnsdannelse og utfordringer for norsk økonomi, Ministry of Finance.

2011- 2012 Member of the expert committee assessing the methods for evaluating costs and benefits for public projects (revidering av håndboken for kost- nytte analyse), NOU 2012:16 Samfunnsøkonomiske analyser, Ministry of Finance.

2009 Contributed to NOU 2009:16 Globale miljøutfordringer – norsk politikk, (Bye, Fæhn and Heggedal, Appendix 2), Ministry of Finance.

2006-2007 Head of the expert committee assessing Excise Taxation in Norway ("Særavgiftsutvalget"). [NOU 2007:8 En vurdering av særavgiftene](#), Ministry of Finance, June 2007.

2002 – 2003 Member of the expert committee assessing VAT taxation and the Public sector. [NOU 2003:3, Merverdiavgiften og kommunene – konkurransevidringer mellom kommunene og private](#), Ministry of Finance.

2001 – 2003 Member of the advisory committee for Macro Economic Modeling, Ministry of Finance.

1999 Contributed to NOU 1999: "*Flatere skatt*" (Bye, Holmøy and Strøm, Appendix 5) Ministry of Finance.

Other board and committees

2017– 2019 Head of the board “Norges Banks fond for økonomisk forskning”.

2017-2019 Co-opted member, Board of CREE (Oslo Centre for Research on Environmentally friendly Energy)

2014 - 2016 Member of the board “Norges Banks fond for økonomisk forskning”.

2007- 2011, 2012-2016, 2017-2020 (renominated third period) Member of the board for the Tax Research Programme, Research Council of Norway.

2006 - present Member (suppleant) of the advisory board for the Nordic Scientific Tax Research Council.

2012 Member of a scientific evaluating committee for Post.Doc. positions, Institute of Economics, University of Oslo.

2009 Member of a Scientific Board Evaluation of Swedish Research on Sustainable Development, organized by the Swedish Research Council and several other funding bodies.

2002 Member of a scientific evaluating committee for an Associate Professor position, "Høgskolen i Telemark", Bø.

Project leader experiences and contributions to external funding

(This is only external funded projects that I have been in charge of as a project leader. I have also contributed to several other external funded projects and applications for external funded research projects both national and international.)

2014-2018 “Governing EU-Norwegian willingness to extract, combust and consume less carbon”(“WILL”), KLIMAFORSK programme, RCN, 9 man labour years.

2012 – 2015 Two subprojects (“Analyses of policies promoting energy efficiency” and “innovation in environmental technologies”) in - “Economic Instruments to achieve Climate Targets in Europe - ENTR’ACTE”, Project under EU FP7-ENV-2012, CREE/Ragnar Frisch Center for economic research is one out of 9 European research centers that constitutes the Consortium for this project (incl. Ph.D. student Klemetsen), 50% EU funding.

2011 – onwards, WP 5 (The next generation of numerical models) in CREE and from 2016 heading WP 1 (Regional and national energy and environmental policies) , RENERGI programme, RCN. 9 million NOK each year is distributed between University of Oslo, Frisch Centre and Research Department, SSB.

2010-2013 “Diffusion of climate technologies”, RENERGI programme, RCN, 10 man labour years (incl. Ph.D. student Klemetsen), RCN.

2000 – 2010 Annual contract with the Ministry of Finance regarding development and operation of the disaggregated numerical CGE-model MSG6, 3 man labour-years each year.

2005 – 2008 "Innovation and abatement policies in a small, open petroleum producing economy ", RENERGI programme, RCN. 4 man labour years (incl. Ph.D. student Heggedal).

2004 – 2005 "Innovation Policies versus abatement policies in a small, open economy with climate restriction", SAMSTEMT programme, RCN, 6 man labour years (incl. Ph.D. student Heggedal).

2001 – 2002 "Effects on efficiency and distribution of direct vs. indirect taxation", Tax Research programme, RCN, 2 man labour-years.

2000-2001 Effects of housing tax reforms, 25% financed by the Ministry of Finance,. 2 man labour years.

1997-1998 "Welfare effects of environmental taxes and green tax reforms" financed by the Tax Research programme, RCN, 1 man labour year.

1992-1995 Ph.D. project "Intertemporal general equilibrium analysis", SAMMEN programme, RCN. 3 man labour years.

Statistics Norway, some examples of other internal work

- Regular presentations at Research seminars, meetings and workshops at Statistics Norway.
- Member of an internal group evaluating the purpose and contents of the publication Økonomisk Utsyn, delivered a report to the Research Director, May 2011.
- Member of an internal project group to revision of the consumer demand system in MSG6-model.
- Head of the editorial group, Økonomisk Utsyn, 2010/2011, Økonomiske analyser 1/2011
- Member of the editorial group for Økonomisk Utsyn, 2009/2010, Økonomiske analyser 1/2010
- Internal advisor for the KLIMAKUR2020 project regarding the macroeconomic projections and policy simulations and writings of the report.
- Contributions to several applications for external funding from the RCN and other sources, including EU sources.
- Member of a working group evaluating coordination of data from the Energy Accounts, Environmental Accounts and the National Accounts, 2008.
- Several presentations of "Macroeconomic Modelling for Long Term Analyses and Energy and Environmental Policy analyses – the Norwegian experience", for visiting foreign delegations from e.g. Kazakhstan, UN, South-Africa, at SSB.
- Contributions to the annual publication Natural resources and the environment, 1987-2008.
- Responsible for the chapters on Housing investments and Construction activities, Konjunkturtendensene 1991-1992.
- Member of the editorial group, Økonomisk Utsyn, 1988.

Supervisor experiences

Assistant supervisor, Master Thesis, Nour-Eddine Elkadi, 2017

Assistant supervisor of Ph.D-student Tom-Reiel Heggedal, 2004-2009

Assistant supervisor of Ph.D-student Marit E. Klemetsen, 2011-2016

Supervisor for junior staff at several projects, 2000 - present.

Organizing international workshops and seminars – recent examples

2017 Workshop, WILL project, 30 May, Oslo

2011-2017 Several workshops and seminars for the CREE consortium.

2011 Workshop, Energy-Modeling-Forum (EMF), November, Oslo.

2011 Workshop, "Diffusion of climate technologies", 18.-19. October 2011, Kleivstua.

2006-2007 Workshop in "Macroeconomic modeling" in a North European consortium of empirical macroeconomic modeling institutions, January 2007, Oslo.

2005 Workshop "*Climate change policies and induced technological change - national and international perspectives*" , 19-21 October 2005, Oslo.

National and International networking

Having worked with applied CGE modeling and analyses for many years, both for research and governmental policy advices and analyses, I have taken part and presented papers in several workshops, invited seminars and conferences with representatives from international empirical research institutions as the CPB and PBL in the Netherlands, OECD environmental and economic modeling groups, Danmarks Statistik and Økonomiske Råd, Konjunkturinstitutet in Stockholm, ZEW in Mannheim, European Commission JRC in Sevilla and FEEM in Milan/Venice. Such arenas are important venues for exchanging experiences related to research and modelling issues. The latest generation of Statistics Norway's disaggregated general equilibrium models – Statistics Norway World Models (SNoW) – that was used for the Ministry of Finances' long term perspectives in 2017 - is a result of the networking and cooperation with international excellent scholars in this field. Prof. Chris Böhringer (Oldenburg University) is our particular mentor and project co-operator in establishing this new family of CGE-models that use international acknowledged and well established data and software platforms, GTAP and GAMS-MPSGE. I also took part in the development of SSB's earlier CGE model version MSG6 that included support and research visits to Professor Dale Jorgenson's modeling group (Harvard University).

Project related networking:

CREE (Oslo Centre for Research on Environmentally friendly Energy, 2011-2019) is a consortium consisting of researchers from the Economics Department (Prof. Nils Henrik v.d. Fehr, Prof. Michael Hoel, Prof. Karine Nyborg etc.), University of Oslo, The Ragnar Frisch Centre for Economic Research (Sen. Res. Snorre Kverndokk, Rolf Golombek, Sverre Kittelsen etc.), the Research Department, SSB, and Tilburg sustainability Centre, Tilburg University (Prof. Reyer Gerlagh, Prof. Art de Zeeuw). In addition international scholars from other institutions are attached including Prof. Fridrik Baldursson (Reykjavik University), Prof. Chris Böhringer, Prof. Matti Liski (Helsinki School of Economics) etc. This consortium arranges seminars and workshops for our international research collaborators and has cooperated on several applications for external funding, incl EU funding. CREE has resulted in several joint papers and applications for new projects.

CREE did finance Ph.D. student Marit Klemetsen that established a unique firm-level database of emissions, environmental regulations, patents and economic register data from SSB. I was project leader and assistant supervisor joint with Sen. Res. Arvid Raknerud, SSB. The papers from this project have received national and international interest and funding of new joint projects will be applied for.

“Oslo Institute for Research on the Impact of Science - OSIRIS”(2016-2022) is a consortium consisting of TIK Centre for Technology, Innovation and Culture, University of Oslo with OSIRIS Director, and head of Research team, Prof. Magnus Gulbrandsen, INGENIO at Polytechnic University of Valencia (Prof Jordi Molas Gallart), Statistics Norway (Senior Researcher Arvid Raknerud), Manchester Institute of Innovation Research, The University of Manchester (Prof. Jakob Edler).

“Smart paths and costly detours towards a sustainable low-emission society - Smart Paths” (2017-2020) includes cooperation with SR PhD. Arne Lind (IFE), Dir. Per Espen Stoknes (BI), PhD Pernille Seljom (IFE), Prof. Karen Turner (Univ. of Strathclyde, UK), Prof. Chris Böhringer (Univ. of Oldenburg, Germany).

“Governing EU-Norwegian willingness to extract, combust and consume less carbon”(WILL) (2014-2018) includes cooperation with CICERO (Glen Peters) and Professor Chris Böhringer.

“Prospects for Norwegian Petroleum Extraction and implications for the Norwegian Economy as a whole” (2015-2019) includes cooperation with Prof. Chris Böhringer, Sen. Res. Bernt Bratsberg and Rolf Golombek (Frisch Centre), and Prof. Petter Osmundsen (University of Stavanger) are all part of the research team.

“Economic Instruments to achieve Climate Targets in Europe - ENTR’ACTE” (2012-2015), Project under EU FP7-ENV-2012, is a project that was funded by EU. CREE was invited to apply for this project together with seven other European Research Institutes, including ZEW, Grantham Institute for Economic Research (LSE), Tilburg University, FEEM etc. In this project we have especially cooperated with FEEM in Milano (Sen. Res. Elena Verdolini). The project resulted in joint papers and applications for new projects.

Energy-Modeling-Forum (EMF) (2011-2012). Bye and Fæhn, together with Prof. Knut-Einar Rosendahl (NMBU) participated in a project “Border carbon policies” together with 9 other foreign partners, including Prof. Chris Bøhringer, Prof. Thomas Rutherford (ETH – Zurich/Univ. of Wisconsin-Madison), Ass. Prof. Ed Balistreri (Colorado School of Mines) and Sen. Res. Carolyn Fischer (RFF). This included arranging a workshop in Oslo and resulted in a conference volume of “Energy Economics” with peer-reviewed articles.

The RCN-project “Diffusion of climate technologies”(2010-2013) included foreign participants as Prof. Reyer Gerlagh and Prof. Thomas Sterner (University of Gothenburg), in addition to the Development Research Center of China (DRC). We did arrange two workshops in this project where other international researches also attended, including Prof. Valentina Bosetti (University of Bocconi, Milano/FEEM), Sen. Res. Carolyn Fischer and Ass. Prof. Håkan Eggert (University of Gothenburg). Ass. Prof. Tom-Reiel Heggedal (BI) and Sen. Res. Haakon Vennemo (Vista/Oslo & Akershus University College) were also part of this project. The project resulted in several joint papers.

Earlier RCN projects that I have headed (see above) have also arranged workshops with national and international participants. I have also participated in the BITE-project (RCN) headed by NUPI (Arne Melchior, Fulvio Castellacci (TIK) and Per Botolf Maurseth (BI)).

The modelling groups at the Research department have also been part of a Scandinavian (EMMA and Dream models from Danmarks Statistik and Økonomiske råd) and Dutch (CPB) network of economists working with empirical macroeconomic and general equilibrium models for policy analyses. The network organised several workshops during the years 2000 to 2007.

My participation in governmental expert groups and RCN boards etc implies joint work and networking with excellent researchers from NHH, NTNU, UiO, NMBU, IFE, CICERO and other Norwegian research institutions and from the other Scandinavian countries, in addition to several of the Ministries as the Ministry of Finance, Ministry of Climate and the Environment, Ministry of Energy and Oil, Ministry of Trade and Fisheries, among others.

International conference participations with papers, examples (Bye presenting)

- IAEE Conference, Vienna, 3-6. September 2017.
- Conference “Economics of Innovation, Diffusion, Growth and the Environment”, Grantham Institute, LSE, London 16-18 Sept 2015.
- 5th WCERE Conference in Istanbul, 28. June – 2. July. 2014
- RERC Conference, University of Oslo, 16. June 2014
- 19th EAERE Conference Prague, The Czech Republic, June 2012
- 14th Conference on Global Economic Analysis GTAP, Venice, Italy, June 2011
- European Economic Association’s Conference Glasgow, UK, August 2010
- International Energy Workshop, Stockholm, Sweden, June 2010
- EAERE conference, Amsterdam, June 2009

- International EcoMod Conference, Brussel, Belgium, August 2004.
- IIPF – International Institute of Public Finance, August 2002, Helsinki, Finland 2002.
- European Economic Association’s 16’th annual conference, Lausanne, Switzerland, August 2001
- European Economic Association’s 15’th annual conference, Bolzano, Italy, August 2000.

International/National workshop/seminar participations, examples (Bye pres. paper)

- Several Workshops at RCN over the years, KLIMAFORSK, ENERGIX, FORINNPOL programmes.
- Workshop “Smart paths”, 11 June 2017, RCN/Holmen Fjordhotell
- WILL-workshop, RCN/SSB, 30 May 2017
- Petroprospects-workshop, RCN/SSB, May 2017.
- CREE-workshop, SSB, 24-25 October 2016.
- “Skatteforum”, RCN, Halden, June 2016
- CREE workshop, Lysebu, September 2015.
- KLIMAFORSK seminar, RCN, 2014 and 2015.
- ENTRACTE-workshop, Milano, 17 February 2015.
- Entracte Project Progress Meeting, Istanbul 28. June 2014
- EMF workshop Oslo, November 2011
- CREE kick-off workshop, Lysebu Norway, October 2011
- NUPI workshop, BITE project, Oslo, January 2011
- World Bank Workshop on Climate issues, R&D support to general versus CCS technologies, Oslo, April 2010.
- NUPI workshop, BITE project, Oslo, December 2009
- Workshop with OECD, Statistics Norway and the Ministry of Finance, January 2009
- Workshop on macroeconomic modelling, Oslo, Norway, January 2007. Workshop "*Climate change policies and induced technological change - national and international perspectives*" , 19-21 October 2005, Oslo, Norway.
- Conference SAMSTEMT, RCN, November 2004
- Workshop on macroeconomic modelling, Copenhagen, Denmark, June 2005.
- Workshop on macroeconomic modelling, Lillehammer, Norway, April 2002.
- ”Skatteforum”, RCN, Åsgardstrand, Norway, June 2002.
- ”Skatteforum”, RCN, Losby, Norway, April 2001.
- Norwegian Association for Economists, annual conferences, several presentations 1992-2014.

Invited speaker, examples

- Bye, B. (2017): Teknologitviking, markedssvikter og virkemidler: Empiriske analyser, CREE in Nærings- og fiskeridepartementet 18 september 2017.
- Bye, B. (2017): Panel member, CREE/CICEP user seminar, Litteraturhuset, 19 April 2017.
- Bye, B. (2017): Teknologitviking, markedssvikter og virkemidler: Empiriske analyser, CREE in Olje- og energidepartementet 31 mars 2017.
- Bye, B. (2016): Innovative and absorptive capacity effects of human capital in a small open economy, foredrag på V Regional Modelling Workshop “ The role of human capital and innovation in territorial impact assessment”, EU Joint Research Centre, Ispra, Italy, 5 Dec 2016.

- Bye, B. (2016): Heading a discussion on linking CGE and Times models, Workshop «Linking CGE and TIMES Models», University of Strathclyde and Scottish Government, Glasgow, 9 nov 2016.
- Bye, B. 2016: «Macroeconomic models and climate policy making in Norway», Nordic conference on economic models and their use in climate policy making, arr: Naturvårdsverket, Regeringskansliet, Norden, OECD, Stockholm, May 2016
- Bye, B. 2016: «Karbonlekkasje», Energi Norge, January 2016.
- Bye, B. 2015: «Evaluering av effekter av virkemidler for å fremme energieffektivisering: En litteraturstudie», Olje- og energidepartementet, June 2015.
- Bye, B. 2015: «Om karbonlekkasje», Nærings- og fiskeridepartementet, Farris Bad, Larvik, May 2015.
- Bye, B. 2015: « Residential energy efficiency and European carbon policies: Lessons learned from a CGE-analysis», Workshop on Energy Efficiency Research/Policy Impacts, Scottish Government event, Glasgow, June 2015.
- Bye, B. 2015: “Residential energy efficiency and European carbon Policies: A CGE-analysis with bottom-up information on energy efficiency technologies” Staff seminar, Centre for Energy Policy, Strathclyde International Public Policy Institute (SIPPI), University of Strathclyde, Glasgow, June 2015.
- Bye, B. 2015: “Can direct regulations spur innovations in environmental technologies? A study on firm-level patenting”, Miljødirektoratet, March 2015.
- Bye, B. 2014: Direct vs. Indirect regulations: A firm level study of the policy impacts on environmental performance Finansdepartementet, August 2014
- Bye, B. 2014: «SNoW-modellen(e) - Statistics Norway World model(s)» - Seminar i Klima og miljødepartementet, March 2014.
- Bye, B. 2014: «Hvordan skal vi innrette teknologi- og klimapolitikken? Modeller for endogen teknologiutvikling», Klima og miljødepartementet, March 2014.
- Bye, B. 2013: «Economic Models for Energy and Environmental analysis», innlegg på CREE/CENSES Model Forum, Frisch-senteret, 24. October 2013
- Bye, B. 2012: “Samfunnsøkonomiske analyser – NOU 2012:16 - Tiltrådingen av spesiell betydning for klima- og miljøtiltak», Presentasjon på DFØ nettverksmøte, December 2012
- Bye, B. 2012: “Samfunnsøkonomiske analyser – NOU 2012:16”, Samfunnsøkonomenes forening, November 2012
- Bye, B. 2012: “Samfunnsøkonomiske analyser – NOU 2012:16”, Miljøverndepartementet, October 2012
- Bye, B. 2011: ”Wider impacts and transport infrastructure – concluding remarks” Utvalget for samfunnsøkonomisk analyse, seminar, Bergen, 20-21 October 2011
- Bye, B. 2011: Makroøkonomiske modeller – til bruk i forvaltningsrevisjonen, Riksrevisjonen, October 2011.
- Bye, B. 2010: ”Teknologiutvikling, argumenter for offentlig støtte”, OED, May 2009
- Bye, B. 2010: ”Klimateknologi og makroøkonomi – effekter av klima- og teknologipolitikk, NHD, May 2010
- Bye, B. 2010: Integrated macroeconomic-environment models for Norway, Foredrag for kinesisk delagasjon, VISTA analyse, August 2010.
- Bye, B. and T.Fæhn, 2009: Teknologisk utvikling – klima og innovasjonspolitikk, Finansdepartementet, March 2009
- Bye, B. 2009: CCS-teknologi og makroøkonomi: Effekter av klima- og teknologipolitikk, OED, December 2009.
- Bye, B. 2008: [Macroeconomic modelling for energy and environmental analyses: Integrated economy-energy-environment models as efficient tools](#), UN Conference on Climate Statistics, Oslo, Norway, 14-16 April 2008.
- Bye, B. og T. Fæhn, 2009: Kostnader ved klimatiltak, Finansdepartementet, February 2009
- Bye, B. 2009: Klimagassbudsjett og makroberegninger, SFT, January 2009.

- Bye, B., 2007: "Seminar om MSG-modellene", Finansdepartementet, February 2007.
- Bye, B., 2007: Innovation policies in a small, open economy; an applied analysis of R&D driven endogenous growth, ECON, Oslo, February 2007.
- Bye, B., 2007: "Virkemidler i miljøpolitikken: Miljøavgifter og utslippskvoter", Skattelovavdelingens seminar, Finansdepartementet, Sundvolden, September 2007.
- Bye, B., 2007: "En vurdering av særavgiftene: NOU 2007:8", Riksrevisjonen, October 2007.

Peer-reviewer for

Journal of Environmental Economics and Management, Energy Journal, Resource and Energy Economics, The Scandinavian Journal of Economics, Canadian Journal of Economics, Finanzwirtschaft, Environmental and Resource Economics, Energy Economics, Scandinavian Journal of Economics, European Economic Review, Journal of Housing Economics

Reviewer international conferences

- The Annual Congresses of European Environmental and Resource Economists in Zurich, Helsinki, Prague, Gothenburg, Amsterdam (2009-2016).
- The World Congresses of Environmental and Resource Economists in Istanbul and Kyoto (2014, 2007).

Teaching experience

Seminar leader in microeconomics, Bachelor level, University of Oslo, 1986.
Examiner at the Department of Economics, University of Oslo