



# **Matthias Kaiser**

## **Dr.phil. / Professor**

Matthias Kaiser: Dr. Phil./ Professor / Director of

Den nasjonale forskningsetiske komité for naturvitenskap og teknologi (NENT)  
(The National Committee for Research Ethics in Science and Technology in Norway) ,

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And: Associated part-time senior researcher at

The Centre for the Study of the Sciences and Humanities, University of Bergen

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**(PRIVATE INFORMATION:** German citizen, married to Ellen Jebsen, three children: Christina, born in 1987, Charlotte, born in 1993, and Camilla, born in 1995; home address: Båstadveien 83, N - 1370 Asker, Norway).

## CURRICULUM VITAE

- 1951 October 29, born in Leipzig (then: "DDR").
- 1971 Abitur in Düsseldorf, West-Germany (at the "Mathematisch-Naturwissenschaftliches Lessing Gymnasium")
- 1971-72 study of philosophy at the University of München, (LMU).
- 1972-76 study of philosophy, mathematics and physics at the University of Frankfurt am Main.
- 1976-77 work for an air-freight company at Frankfurt airport
- 1977 scholarship for the International Summer School, Oslo.
- 1977-79 fall 77 –fall 79: study of philosophy at the University of Oslo.
- 1979 mag.art.-degree (December 1979) from the University of Oslo in philosophy, with mathematics and sociology of science as supporting subjects.
- 1980 work as a language teacher (German) at private language school.
- 1981-83 NAVF-RHF (The Norwegian Council for Science and the Humanities, branch for the Humanities) graduate-study 3-year scholarship.
- 1982-83 June 82-June 83: Visiting Fellow at the Department of Philosophy, Stanford University, USA.
- 1984-86 teaching-assistant jobs at the University of Oslo, Dept. of Philosophy.
- 1985-88 alternating "daglig leder" (director) of Seminaret i vitenskapsteori, (Science Studies Unit) at the University of Oslo.
- 1987-90 "vitenskapelig assistent" (assistant professor) at the Dept. of Philosophy, University of Oslo (3 1/2 years, terminating May 30, 90). - Several short-term teaching appointments at the University of Tromsø, and NTH (Norwegian Technical University during this period)
- 1990 Doctoral thesis submitted (1.version) to the Dept. of Philosophy at the University of Frankfurt for German doctorate. 2. version submitted January 1991; scientific advisers in Norway: Prof. Dagfinn Føllesdal & Prof. Knut Erik Tranøy; scientific adviser in Frankfurt: Prof. Wilhelm K. Essler.
- 1990-93 3-year post-doctoral scholarship from the NAVF-RMF (i.e. The Norwegian Council for Science and the Humanities, branch for the Medical Sciences); as associate researcher at the Center for Medical Ethics (SME), Oslo, (and partially associated with the Center for Technology and Culture (TMV), Oslo), for a project on technology assessment in medicine. – Project terminated 1 July 1991 because of new position.
- 1991 May 15: Doctoral disputas for the degree Dr.phil. at The University of Frankfurt passed with the degree "sehr gut" (magna cum laude).
- 1991 July 1: Fulltime position as director (sekretariatsleder) for the National Committee for Research Ethics in Science and Technology, with appr. 50% of working time for own research.
- 1993 Dec 1 – until now: Accepted offer of tenure in the position as director of NENT (and declined an offer of tenured position as associate professor at the Dept. of Philosophy, University of Oslo).
- 1994 Visiting professor in Sydney, Australia (18.May - 15. August 1994) at two institutions: 1. School of Science and Technology Studies, The University of New South Wales, Kensington (Sydney), NSW 2033, (ref.#: 9400468) and 2. School of Traditional and Modern Philosophy, The University of Sydney, Sydney, NSW 2006. - Furthermore: Senior Resident Fellow at The New College, The University of New South Wales, associated to The New College Institute for Values Research, UNSW.
- 1996 June: Promotion to full professor after scientific evaluation of competence.
- 1997 Fall-term: Sabbatical term and teaching appointment in Mexico for De norske studiesentra, at the University of Guanajuato.
- 1998 January 1- 31 December 1999: temporary engagement ("vikariat") as adjunct professor (professor II; a part time position: 20%) for philosophy of science in the doctoral education program at The Oslo School of Architecture.
- 1999 May 1999 – October 2000: function as "acting director" for the newly founded Norwegian Board of Technology (Teknologirådet) – in addition to being director of NENT.
- 2000 until 2006: Ordinary engagement as adjunct professor (professor II; 20% position) for philosophy of science in the doctoral education program at The Oslo School of Architecture.
- 2008 October 2008 – until now: Part-time appointment (20%) as senior researcher at the Centre for the Study of the Science and Humanities (SVT), of the University of Bergen.

**ACADEMIC DEGREES:**

1979 Mag.art. in philosophy, at the University of Oslo; supporting subjects: mathematics and sociology of science.

1991 Dr.phil. in philosophy, at the Johann Wolfgang Goethe University of Frankfurt am Main

**AREAS OF SPECIALITY AND AREAS OF COMPETENCE:**

AOS: philosophy of science, ethics of science, technology assessment.

AOC: social studies of science and technology, history of science, ethics, history of philosophy, epistemology, logic.

**Membership in professional societies:**

- European Society for Agricultural and Food Ethics (EurSafe), founding member, President (2007 - now)
- Philosophy of Science Association (PSA)
- European Association for the Study of Science and Technology (EASST)
- The World Technology Network (WTN); founding member

**Editorial work in scientific journals:**

- Member of the Editorial Board of the journal *Science and Engineering Ethics*.
- Member of the Editorial Board of the *Journal of Agricultural and Environmental Ethics*.
- Member of the Editorial Board of the *Journal of Empirical Research on Human Research Ethics*.
- Member of the Editorial Board of the journal *Etikk i praksis*.
- Member of the Editorial Board of the journal *Agriculture and Human Values* (until 2006).

**Doctoral students (main supervision):**

- Lisbeth Withthøft Nielsen (currently Singapore), on a project on the concept of nature and its normative implications for bioethics, at the University of Copenhagen. Exp. delivery late 2010?
- Emma Issat, (currently Berlin), on a project on The precautionary principle for genetically modified salmon in aquaculture; law and philosophy; UiB, exp. delivery ca 2011?

**Earlier doctoral students:**

- Dr. scient. Arne Sveinson Haugen, on a project on ethical and environmental accounting in aquaculture, submitted at the Dept. of biology, University of Oslo. April 2008
- Dr. art. Ellen-Marie Forsberg, on a project on the philosophical justification of the ethical matrix as an assessment tool, Dept. of Philosophy, University of Oslo. 2007
- Dr. ing. Mitra Heedman, School of Architecture, Oslo (AHO), (main supervisor for most parts of the study), on a project on school architecture, 2005.
- Dr. polit. Jon Fixdal, Dept. of Sociology, UiO, on a project on technology assessment; 2003.
- Dr. philos. Trond Gansmo Jakobsen, at the Dept. of Philosophy, University of Tromsø, on a project on the philosophy of biology; 1999.

**Kaiser has also been supervisor to several lower grade students and their theses (equivalent to BA and MA).**

#### COMMAND OF LANGUAGES:

active: German, English, Norwegian

passive: Swedish, Danish, Latin ("Grosses Latinum"), French (rudimentary).

#### TEACHING ACTIVITY:

Kaiser has been teaching philosophy courses, in particular ethics of science, philosophy of science and critical thinking, for more than 25 years. Courses were designed for all levels: under-graduate (Ex.phil. and grunnfag), graduate (hovedfag), and doctoral courses at the Universities of Oslo, Trondheim, and Tromsø. After his appointment as director of NENT in 1991 these teaching assignments have been on an ad hoc and irregular basis, with the exception of the doctoral courses at the College of Architecture. There he gave regular lectures on philosophy of science and scientific method for doctoral students. He has taught doctoral course on biotechnology ethics within the project BioT Ethics / Bio T Ethed and others for several years.

#### SAMPLE OF COURSES TAUGHT:

*Introduction to Philosophy of Science*, Dept of Philosophy, UiO

*Advanced topics in Philosophy of Science*, Dept of Philosophy, UiO

*Epistemology*, Dept of Philosophy, UiO

*The idea of progress in history*, Dept of Philosophy, UiO

*Progress in science and the history of continental drift*, Dept of Philosophy, UiO

*Feminist epistemology and ethics*, Dept of Philosophy, UiO

*On Boolos' Logic of Provability* (with U. Petersen), Dept of Philosophy, UiO

*Critical Thinking and Philosophy of Science for Examen Philosophicum*, UiO (plenary lectures and seminars)

*Science and technology in society*, University of Trondheim

*Uncertainty and public participation*, ESST, UiO

*Doctoral course on scientific method, philosophy and ethics of science*, Architectural College, Oslo

*Ethics of Science*, BioT Ethics / BioT Ethed & several research institutions

*Practical Ethics and Ethical Tools*, BioT Ethics / BioT Ethed & several research institutions

*Scientific misconduct, research ethics and ethical codes*, BioT Ethics / BioT Ethed & several research institutions

*Aquaculture as a case study for technology assessment*, BioT Ethics / BioT Ethed & several research institutions

*Risk and the precautionary principle*, BioT Ethics / BioT Ethed & several research institutions

#### PROFESSIONAL ACTIVITIES (SELECTION)

2007 – present: President of the **European Society for Agricultural and Environmental Ethics** (EurSafe).

2004- present: Member of the Board of the **Altonaer Stiftung für philosophische Grundlagenforschung**, Hamburg Germany;

2001- present: member (ethics awards nominating committee) of **The World Technology Network**

2008- 2009 member of an **EC** expert group on **International governance of science and technology**.

2007- 2009 Member of the **Co-ordinating Committee for Facilitating International Research Misconduct Investigations**; Global Science Forum of the **OECD**.

2006: Invited expert at global consultation by **UNESCO / COMEST** on ethical guidelines for science; **Belo Horizonte & Rio de Janeiro, Brazil**; participation as expert also at corresponding consultations in **Geneve** and **Bangkok**.

2006: Member of the **evaluation team** of the Høgskoleverket of Sweden to evaluate the "tema" studies at **Linkjøping University**

2006 - 2008: Chair of the International Expert group appointed by **NOKUT** to evaluate a second proposal for a Ph.D. degree on practical knowledge at Bodø College.

2005-2006: **organizer** and **chair of organizing committee** for **EurSAFE 2006 Conference** in Oslo 22-24 June 2006;

2004- 2005: Chairman of the Ad Hoc International **Working Group on the Precautionary Principle**, set up by COMEST under **UNESCO**;

2004 - 2005: Chair of the International Expert group appointed by **NOKUT** to evaluate a proposal for a Ph.D. degree on practical knowledge at Bodø College.

2003: Invited expert on ethics of science to help build up activities of national research ethics committee (CECTE) in Argentina; invited by the **Minister of Science and Technology in Argentina**.

2003: Invited expert to the Fourth Joint **FAO/WHO Expert Consultation on Foods derived from Biotechnology** –Safety Assessment of Foods Derived from Genetically Modified Animals, including Fish– Rome, Italy 17 – 21 November 2003;

2000 – 2003: Principal investigator for project on **Commissioned Research in Norway**, together with Ruyter, Nagell, Rønning, and Grung at The National Committees for Research Ethics;

1996-2002: Chairman of **The Standing Committee on Responsibility and Ethics in Science (SCRES)**, appointed by the **International Council of Scientific Unions (ICSU)**

1998-2001: Treasurer and member of the Executive Board of **The International Association of Technology Assessment and Forecasting Institutions (IATAFI)**;

2000-2001: member of **Norwegian Government Commission on Xenotransplantation**;

2000: member of the **scientific committee of EurSafe 2000** Congress on Agricultural and Food Ethics, Copenhagen.

1999: member of the Norwegian National Delegation to the **World Conference on Science – Science for the Twenty-First Century: A New Commitment**, jointly organized by UNESCO and ICSU, held in Budapest, June / July 1999.

1999-2000: leader of the NENT project on “Norwegian fisheries towards 2020 – values and strategies”

1999: member of the Norwegian delegation, headed by the Minister, to the **World Conference on Science – Science for the Twenty-First Century – A New Commitment**, Budapest. – Also **rapporteur** on thematic session: Science, Ethics and Responsibility (chair: Vigdis Finnbogadóttir, former president of Iceland).

1997: member of the scientific committee for the **Second International Symposium on Sustainable Aquaculture**, Holmenkollen, Norway (in 1994: member of the scientific committee for the **First International Symposium on Sustainable Fish Farming**, Holmenkollen, Norway).

1996: initiator and chairman of the organizing committee of the first **Norwegian Consensus Conference** (Danish model), on Genetically Modified Food (chairman for two other Consensus Conferences later);

Centre Research Associate at the **Centre for Philosophy of Natural and Social Sciences (CPNSS) at the London School of Economics (LSE)**, London UK.

Member of Committee at the Regional College at Lillehammer (HiL) to establish undergraduate studies of philosophy at HiL (grunn- og mellomfag).

Leader of the project team for an empirical study of scientific misconduct in Norway, The National Committees of Research Ethics (1997).

#### **Selection of other earlier activities:**

Invited speaker to the Balaton-Group (former Club of Rome, systems analysis), Lake Balaton, Hungary, August 2002.

Visiting scholar at the University of Guanajuato, Mexico, in connection with a teaching appointment by De norske studiesentra, August – December 1997, with invited lectures at the University of Guadelajara, and The National University of Mexico, Mexico City.

Visiting professor in Sydney, Australia (18.May - 15. August 1994) at two institutions: 1. School of Science and Technology Studies, The University of New South Wales, Kensington (Sydney), NSW 2033, (ref.#: 9400468) and 2. School of Traditional and Modern Philosophy, The University of Sydney, Sydney, NSW 2006. - Furthermore: Senior Resident Fellow at The New College, The University of New South Wales, associated to The New College Institute for Values Research, UNSW.

Invited lecture tour to Taiwan (5.-12.june 1994); host: Prof. Cheng-Hung Lin, National University of Taiwan, Taipei.

Chair of Steering Committee (and initiator) of Consensus Conference on Genetically Modified Food (Lekfolkskonferanse om genmodifiserte matvarer), 1996 and again in 2000.

Member of working group, established by the Norwegian Delegation at UNESCO and UNESCO headquarters, Paris, to prepare a World Commission on Ethics of Scientific Knowledge and Technology, 1996-1997.

Member of The Advisory Committee for Biotechnology 1995-2005, appointed by The Research Council of Norway, 1995-1996.

Member of the Program committee for Interdisciplinary conference: Housing for the Future: Values and Technology, October 13-15, 1997, in Trondheim (the conference was cancelled after insufficient participation).

Member of the Commission on the Ethics of Science, of the International Union for the History and Philosophy of Science, 1993-1995.

Member of advisory group for project: Intelligente boliger for eldre og funksjonshemmede ("Smart houses for the elderly and disabled": BESTA); see. TMVs arbeidsnotat nr. 77: D. Elgesem, "Trygghet, personvern og samtykke - Ethiske spørsmål i BESTA-prosjektet" 1993.

Evaluator / referee for National Science Foundation, Directorate for Social, Behavioral, and Economic Sciences, Washington DC, USA: 1994, 1995, 1996, 1997, 1999, 2003.

Evaluator / referee for the Belgian Federal Office for Scientific, Technical and Cultural Affairs, Prime Minister's Services, program of forward socio-economic research, May - June 1995.

Evaluator for the European Commission, DG Research 6 FP, food safety, May 2003; & DG Research Science and Society Ethical Review 2004-2006.

Evaluator for the Finnish Academy of Sciences, Environmental Research, October 2001.

Evaluator for promotion to Associate professorship, at Dept. for Science Studies at Wollongong University, Australia, 1996, 1997, and for position of Associate professor at National Australian University, Canberra.

Many invited lectures at seminars, international conferences and Universities (e.g. Stanford, San Diego, San Francisco, Los Angeles (Caltech), Chicago (IIT), Berlin, München, Frankfurt, Hamburg, Buenos Aires, Rio de Janeiro, LSE-London, Canberra, Mexico-City (UNAM), Guadelajara, Graz, Gøteborg, Nice, Athens, Bucharest, Warsaw, Krakow, St. Petersburg, Moscow, Beijing, Taipeh, Sydney University, New South Wales University, and more)

#### **CURRENT RESEARCH PROJECTS FUNDED:**

- 2009 – 2012 **Coordinator** of EU project (SiS) “Value- Isobars - The Landscape and Isobars Of European Values in Relation to Science and Technology”
- 2009 – 2013 **Work-Package leader** in EU project coordinated by the University of Stirling “SEAT – Sustainable Trade in Ethical Aquaculture”
- 2009 – 2012 **partner** in EU project coordinated by the University of Wageningen, “PEGASUS – Public perception of genetically modified animals – Science, Utility, and Society”.
- 2009 **Chair** of the European Science Foundation (ESF) funded Research Conference “Philosophy of Science for Use”.

- 2007 – 2010 **Coordinator** of NordForsk funded research network “Nordic Network of Agriculture and Food Ethics”.

**RESEARCH GRANTS RECEIVED EARLIER (INCOMPLETE):**

- Scholarship from The Norwegian Council for Science and the Humanities (NAVF), 3 years salary + 1 year stay at Stanford University, 01.01.1981 – 31.12.1983 (nr. 17.515/1762).
- 1990 – 1991: 3 year post doctoral scholarship (terminated June 1991), from The Norwegian Council for Science and the Humanities / Medical Sciences, on a project on medical technology assessment
- Together with Ragnar Fjelland (coordinator) and Gunnar Skirbekk: 1993 – 1995, project: "Norges-nett I vitenskapsteori, funded by The Norwegian Council for Science and the Humanities (463.000 NKR)
- 1992: from The Norwegian Research Council for Science and the Humanities (271.92.065), support for printing of book Aspekte des wissenschaftlichen Fortschritts" (4.000,- DEM = 16.000,- NKR)
- 2001: contract with The Norwegian Radiation Protection Authority to facilitate and organise a consensus conference on "Protection of the environment from ionising radiation"; (ca 20.000,- EUR = ca 160.000,- NKR).
- 1999 – 2000: from The Research Council of Norway "En verddivurering av norske fiskerier mot 2020/ A value assessment of Norwegian fisheries towards 2020" (forprosjekt), (ca 670.000,- NKR)
- 2000: from The Research Council of Norway "Verdier og strategier i norsk fiskerier / Values and strategies in Norwegian fisheries", (ca 90.000,- NKR)
- 2002 – 2006: from The Research Council of Norway "Principle based ethics – An investigation of the foundation and the importance of isolated ethical principles in applied ethics in the field of biotechnology" (project nr 151961/510) as supervisor of Doctoral project for Ellen-Marie Forsberg; salary + expenses (ca 1.900.000,- NKR)
- 2002: "Ethical challenges in the fisheries and aquaculture sector", financed by the Research Fund for Fisheries and Aquaculture (FHF), (ca 250.000,- NKR).
- 2001 – 2002: sub-contractor for the EU-project STRATEGY (Sustainable Restoration and Long-Term Management of Contaminated Rural, Urban and Industrial Ecosystems) – main partner: Norwegian University of Life Sciences (UMB); (ca 15.000,- EUR = ca 120.000,- NKR)
- 2003 – 2005 from The Research Council of Norway as partner in the project "Governance in the field of biotechnology and operationalising the Precautionary Principle" Vestlandsforskning K.G. Høyner (coordinator), (ca 500.000,- NKR)
- 2003 – 2005, as partner in the project "BioT Ethics" , Franco Celada, Genova (coordinator) funded by the European Commission FP5, (ca 36.000 EUR = ca 290.000,- NKR)
- 2003 – 2005, as partner in the project "Ethical Bio-TA Tools" (QLRT-2001-02594), Volkert Beekman, The Hague (coordinator) funded by the European Commission FP 5, (ca 150.000 EUR = ca 1.200.000,- NKR)
- 2004 – 2007, as partner in the project "Reprogeneics / Clemit" (SAS6-CT-2003-003286), G.v. Steendam, Leuven (coordinator), funded by the European Commission FP5, (ca 170.000 EUR = ca 1.360.000,- NKR)
- 2005 – 2009, as partner in the project "BioT Ethed" , Franco Celada, Genova (coordinator) funded by the European Commission FP6, (ca 21.000 EUR = ca 170.000,- NKR)
- 2005 – 2008, as partner in the project "CONSENSUS – Multi-Stakeholder Platform for Sustainable Aquaculture in Europe" (FOOD CT-2005-513998 ), EAS, Oosteende (coordinator), funded by the European Commission FP6, (ca 20.000 EUR = ca. 160.000,- NKR)
- 2006: sub-contract contract with The Norwegian Radiation Protection Authority to facilitate and organise a consensus conference within the ERICA project (EU funded: "Environmental Risk from Ionising Contaminants: Assessment and Management" Contract Number: FI6R-CT-2004-508847); (ca 20.000,- EUR = ca 160.000,- NKR).

**PUBLICATIONS, SCIENTIFIC PRODUCTION, TRANSLATIONS AND EDITORIAL WORK, ORDERED AFTER YEAR OF PUBLICATION (see also separate list of publications for a more complete and structured overview):**

**1979:**

- Die Bedeutung und Problematik des Theoriebegriffes - Eine kritische Untersuchung des Theoriebegriffes von J.D.Sneed., mag.art.-thesis, mimeographed, Dept. of Philosophy, Univ. of Oslo 1979.
- Translation from Norwegian into German of: Dagfinn Føllesdal, "Handlungen, ihre Gründe und Ursachen", published in Hans Lenk (ed.), Handlungstheorien - interdisziplinär, 2,II, München 1979.
- Critical letter ("Gen-Technik") in bild der wissenschaft, 10/1979.

**1984:**

- Translation from German to Norwegian, together with O. Vassend, of Giessener Beschwerdebogen, (psychosomatic medicine) forfattet ved Prof. Dr. Elmar Brähler, Universitätsklinikum Leipzig.

**1986:**

- Translation from Norwegian into German of: D.Føllesdal, L. Walløe, J.Elster, Rationale Argumentation, Berlin, New York, 1986.
- Translation from Norwegian into German of the main part of: D.Böhler, T.Nordenstam, G.Skirbekk, Die pragmatische Wende, Frankfurt a.M., 1986.
- "Rapport om Seminaret i vitenskapsteori ved UiO", (i.e. "Report on science studies at the Univ. of Oslo"), Nytt om kvinneforskning, nr. 1, 1986.
- "Feministisk filosofi på vei inn i filosofifaget?", (i.e. "Feminist philosophy into the philosophy curriculum?"), Nytt om kvinneforskning, nr. 1, 1986.

**1987:**

- "Vitenskapelighet og kvinnelighet", (i.e."Femininity and the Ethos of Science") Sosiologi i dag, 2/1987.
- Critical letter ("Theorien sind sterblich") in bild der wissenschaft, 9-1987, (about an article on Popper).

**1988:**

- "Ein kritischer Kommentar zu H.Bernhard: Was bedeutet Poppers Drei-Welten-Lehre?", Zeitschrift für philosophische Forschung, vol.42, 1 (1988).
- "God dag mann økseskaft", (together with Olav Gjelsvik), in Universitas (4.5.88) (-remarks on the philosophy curriculum in Oslo-)

**1989:**

- "Some aspects of scientific progress", Acta Analytica, 4/1989.
- editor of a "kompendium" for students: Feministisk etikk - et utvalg av innledende tekster, ("Feminist Ethics – A Selection of Introductory Texts"), mimeographed, Dept. of philosophy, Univ. of Oslo 1989.
- "Vellykket konferanse i vitenskapsfilosofi", (together with Olav Gjelsvik), in Uniforum, nr. 18, 1989 (- report on the VIIIth Inter-Nordic Philosophy Symposium -).
- "Mellom viten og visjon - En kommentar til Tor Selstad: Mellom høyteknologi og dypøkologi" ("Between knowledge and vision - A comment on Tor Selstad: Between high-technology and deep-ecology"), an evaluation commissioned by the Scientific Board of Alternativ Framtid ("Alternative futures"), a research programme of the Norwegian Government.

#### 1990:

- "Rationality, Reason, and the Sociology of Knowledge", *Synthesis Philosophica*, 9 (1/1990), 323-338.
- "Racionalost, razlozi i sociologija spoznaje", *Filozofskim Istrazivanjima*, 34 (1/1990), 195-207.
- "Vitenskapsfilosofi - på feministiske avveier?" (Philosophy of science – on a feminist detour?), *Norsk Filosofisk Tidsskrift*, 25 (1990), 217-239.

#### 1991:

- *Aspekte des wissenschaftlichen Fortschritts*, Inauguraldissertation, submitted to the Dept. of Philosophy, University of Frankfurt.
- "From Rocks to Graphs - The Shaping of Phenomena", *Synthese*, 89 (1991):111-133 .
- "Progress and Rationality: Laudan's Attempt to Divorce a Happy Couple", *Inquiry*, 34 (1991), 433-455.
- "Filosofiske perspektiver på medisinsk teknologivurdering", ("Philosophical perspectives on medical technology assessment") *Omsorg* nr.2
- "Kvalitets-normer", ("Quality-norms") i Rapport fra et prosjektseminar "Hva er kvalitet?", *TMVs prosjektnotat* 91/1, 1991
- Guest Editor of a special issue of *Synthese: Scientific Knowledge and Scientific Practice*, vol.89, no. 1, (october 1991); a collection of 9 articles by: Cartwright, Wilkes, Åberg, Andersen, Lie, Needham, Kaiser, Niiniluoto, Sintonen.

#### 1992:

- Editor of *Forskningsetikk for forskningsråd* ("Research Ethics for Research Councils"), including a contribution "Sentrale forskningsetiske prinsipper - og noen kommentarer til moderne genteknologi" ("Main principles in research ethics - and some added comments on modern biotechnology"), *NENT-publikasjon* nr. 2, Oslo.
- Editor of *Forskningsetisk veileder*, (A Guidebook in Research Ethics) *NENT-publikasjon* nr.3.

#### 1993:

- **Aspekte des wissenschaftlichen Fortschritts**, *Europäische Hochschulschriften XX/398*, Peter Lang Verlag, Frankfurt a.M, 1993.
- "Philosophers Adrift - Comments on the Alleged Disunity of Method", *Philosophy of Science* 60 (1993), 500-512.
- "Some Thoughts on the Responsibility of Scientists in Relation to the Growth of Fish-Farming in Norway", *Studies in Research Ethics*, nr.2: Scientific Responsibility and Public Control, Göteborg. .
- "Bruk av genetisk modifiserte organismer og moralsk aksept" ("The use of genetically modified organisms and moral accept"), *Nordiske Seminar- og Arbejdsrapporter* 1993:604, The Nordic Council of Ministers, 62-67.
- "Frankenstein på dagsorden", ("Frankenstein revisited") review of a text-book for studies in Science, Technology, and Society: *Frankensteins dilemma*, by H.With Andersen & K.Sørensen, *Dragen*, Febr./March 1993
- (author of a report published under the auspices of The National Committee for Research Ethics in Science and Technology:) **Oppdrettslaks - en studie i norsk teknologiutvikling**, ("Cultured atlantic salmon - a study of Norwegian technology development"), *NENT publikasjon* nr. 5, Oslo 1993.

#### 1994:

- "Technology Assessment and Democratic Decisionmaking", in: *Proceedings of IATAFI 94, The 1st International Conference for Technology Assessment and Forecasting Institutions*, Bergen, Norway, 2-6 May 1994, Bergen.
- "Technology Assessment - Who Needs It?", *Futurum*, March 1994, pp. 3-4
- "Normativ vitenskapsteori og føre-var-prinsippet - En kommentar til Knut Erik Tranøys vitenskapsfilosofi" ("Normative philosophy of science and the Precautionary Principle - a comment on the philosophy of science of Knut Erik Tranøy"), *Norsk Filosofisk Tidsskrift*, vol. 29, nr. 3 / 4 (1994), 209-222

### 1995:

- "The Independence of Scientific Phenomena", in: Theories and Models in Scientific Processes, eds.: William Herfel et al., 179-200, Amsterdam - Atlanta 1995
- "Institusjonalisert teknologivurdering" (together with Jon Fixdal); ("Institutionalized technology assessment"), *Alternativ Framtid 2 / 1995*, 32-34.
- "No Parliamentary Technology Assessment in Norway - but a lot of Ethics", (together with Jon Fixdal), *EPTA Newsletter*, Issue 10 July 1995, 18-20.
- co-editor of **Ethical Aspects of Modern Biotechnology**, (together with Stellan Welin), *Studies in Research Ethics*, no. 5, Göteborg 1995.
- "Miljø-østrogene stoffer: er vi føre-var?" ('Environmental estrogen substances: are we precautionary?'), article in *Aftenposten*, October 1995.

### 1996:

- "Empirical versus Theoretical Progress in Science", in: R.S.Cohen, R.Hilpinen and Qui Renzong (eds.), *Realism and Anti-Realism in the Philosophy of Science*, 171-193, Kluwer: Dordrecht 1996.
- "Towards More Secrecy in Science? - Comments on Some Structural Changes in Science and Their Implications for an Ethics of Science", *Perspectives on Science*, vol.4, no. 2, 207-230.

### 1997:

- "Unpopular and Precautionary Science: Towards a New Ethics of Science", in: M.L.Dalla Chiara et al. (eds.), *Structures and Norms in Science*, Kluwer: Dordrecht 1997, 189-206.
- author of a report under the auspices of NENT: **Føre-var prinsippet - Mellom forskning og politikk**, ("The Precautionary Principle: between research and politics"), NENT publication nr. 11, 207 pages .
- co-author together with Kjetil Jåsund and Dag Elgesem: **Fusk i forskning: Uredelig og diskutabel forskningspraksis i Norge** (An empirical study of scientific misconduct and problematic research practices in Norway), published by The National Committees for Research Ethics in Norway
- co-author together with Dag Elgesem and Jan Helge Solbakk, "Forskningens etiske dilemmaer", ("The ethical dilemmas in research") in: Ø. Sætvedt (ed.) *Forskning mellom teknologi og kultur*, NKSF, Oslo 1997.
- "Principle of Carefulness in Science and Economy" (in Russian), in *Proceedings from The St.Petersburg School of Science and Technics Sociology*, volume XI, St.Petersburg 1997.
- "Fish-Farming and the Precautionary Principle: Context and Values in Environmental Science for Policy", *Foundations of Science*, 2 (1997), 307-341.
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