

# Curriculum Vitae for Jørgen Brandt

## Aarhus University, Department of Environmental Science

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Name Jørgen Brandt

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### Publication records

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Scopus: <http://www.scopus.com/authid/detail.url?authorId=7201484355>  
WoS: <https://www.webofscience.com/wos/author/record/706278>  
Google Scholar: [http://scholar.google.dk/citations?user=k-5\\_pg8AAAAJ&hl=da&oi=ao](http://scholar.google.dk/citations?user=k-5_pg8AAAAJ&hl=da&oi=ao)  
ResearchGate: [https://www.researchgate.net/profile/Jorgen\\_Brandt](https://www.researchgate.net/profile/Jorgen_Brandt)  
PURE (DK university database): <https://pure.au.dk/portal/en/persons/jbr@envs.au.dk>  
ORCID ID: <https://orcid.org/0000-0002-7580-9547>

### Short résumé

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**Jørgen Brandt** is Professor of Atmospheric Modelling at Department of Environmental Science, Aarhus University. He has a MSc in geophysics and meteorology and a PhD in atmospheric physics/atmospheric modelling from the Niels Bohr Institute, University of Copenhagen.

**Main research interests:** Understanding the physical and chemical processes governing the atmosphere and impacts from human interactions. Atmospheric short- and long-range chemistry-transport modelling, dynamics and forcing of climate change, integrated high-resolution forecasting of weather and air pollution from local to global scale, and development of integrated model systems, where the full coupling of emissions and atmospheric models with exposure models, effect models and economic valuation provide the sound scientific basis for decision support and information of the public.

**Basic scientific disciplines:** Atmospheric physics, meteorology, climate change, chemistry, mathematics, advanced numerical methods, computer science, statistics, validation,

evaluation and visualization techniques for use in meteorological and air pollution models at all scales. Dynamical, non-linear and chaotic systems.

**Major model developments:** The DREAM model, used for studying the transport and dispersion from nuclear accidental releases or volcanoes and the THOR Integrated Air Pollution Forecast and Scenario Management System, which includes a series of models capable of weather and air pollution forecasting, and used for management and assessment on hemispheric and European scales, urban background scale and down to urban street scale. He has been one of the main drivers in the development of the atmospheric chemistry-transport model, DEHM, for modelling transport, chemical transformations, deposition and fluxes of many chemical compounds (including photochemistry, particles, pollen, POPs, heavy metals and CO<sub>2</sub>) and used to study climate change and air pollution interactions and the UBM model, which is a high-resolution urban background model covering Denmark. He is one of the main drivers for developing the integrated model system EVA (Economic Valuation of Air pollution), capable of valuating the external costs of impacts on human health from emission sources.

**Present research areas:** Human health impacts from air pollution and related external costs, air pollution impacts on nature and the environment, epidemiological research on air pollution and health, climate change and air pollution interactions, atmospheric sensibility to future emission scenarios, modelling particles from global to local scale and mass closure, operational weather, air pollution and pollen forecasting at all scales, data assimilation of satellite and surface data, modelling of natural emissions, high-resolution modelling, and integrated monitoring. JB's overall research goal is to build an operational and integrated decision support system for assessment of present impacts and future scenarios, including all harmful chemical species in all media, emission and traffic scenarios, climate change, socio-economics, and impacts on human health as well as the natural environment and climate system. This goal is pursued via the integrated THOR system, including all models.

**Management and organisation:** Group leader for Atmospheric Modelling (1998-2002). Head of Section for Atmospheric Modelling (2002-2017) with responsibility for the overall strategic development of the section, the research area and the advisory service, including customer service. He has been responsible for human resources management and staff development of the section, including between 12-25 staff members. The staff members included senior scientist, senior advisors, assistant researchers, PhD students, technicians, secretaries, etc. He has been project leader or principle investigator of more than 50 national and international projects and organised/co-organised 24 international workshop/conferences.

**Publications:** Jørgen Brandt has written ~250 journal papers with peer review, and additional ~15 papers currently in review. H-index=52, ~8200 citations in Scopus; H-index=50, >6700 citations in WoS. H-index=63 and >12000 citations in Google Scholar. Furthermore, 7 contributions to textbooks, 139 papers in international conference proceedings, 176 scientific/advisory reports and 38 popular articles. He has been first author or co-author on >600 presentations at national and international conferences - many of them invited.

**Research programmes:** He has been project leader/principle investigator in >50 research/advisory projects, and contributed to >50 other research/advisory projects. The projects include 50 national research/advisory programs and 50 international research programs. 20 of the 50 international projects have been funded by EU framework research programs or directly by the EU Commission. He has, as a main applicant, achieved funding for more than 138 mio. DKK directly over the last 30 years and additional achieved, as a co-applicant, at least 100 mio DKK during this period. The total amount applied for, including the funding for partners, is much larger.

**Press contact:** He has been interviewed to the press more than ~200 times (TV, radio, newspapers), including many frontpage stories in major national and international newspapers, as well as numerous newspapers spreads. He has been interviewed numerous times to prime time TV news stories (DR and TV2) as well as to Radioavisen (radio news). Issues are (amongst others): Air pollution forecasting, management and assessment of air pollution in general, health impacts from air pollution and contributions from international ships, wood stoves, traffic, farms, etc. as well as climate change and air pollution interactions, and the famous ash cloud from Iceland in 2010, where he was the first to publish operational forecasts of the cloud, which went worldwide.

**Teaching and talent development:** He has been the main supervisor for 8 PhD, 4 MSc and 3 BSc, students and co-supervisor for 9 PhD, 6 MSc and 7 BSc students (a total of 36 students). He is presently co-supervisor for 2 PhD studies. He has been external teacher at University of Copenhagen in geophysical fluid dynamics, at the Technical University of Denmark in air pollution modelling and visualisation techniques, at the EEA in air pollution modelling and externality costs, and at Aarhus University in climate change and air pollution and health-related external costs from air pollution. He has contributed to textbooks at the university level and educational interactive material to high-schools.

**Advisory/knowledge exchange:** He has been a consultant in many projects and reports to authorities both in Denmark and internationally. He has been project leader or contributed to numerous projects for the Danish Government, including the Danish Environmental Protection Agency (MST), various municipalities in Denmark, the European Environmental Agency (EEA) as well as the EU Commission - DG Environment. He has been a main developer of the integrated model system, THOR, producing operational 3-days weather and air pollution forecasts, 4 times a day, since 1998 to the general public. The unique integration of models covering different scales in the THOR system has also been a fundamental part of the Danish monitoring programme (NOVANA), where measurements and model results are combined in so-called “integrated monitoring”. He has been the main driver for developing the integrated model system EVA (Economic Valuation of Air pollution), used for decision making.

**Editorial:** He is editor at the journal of “Atmospheric Chemistry and Physics (ACP)”. He is member of the editorial board of journal of “Atmospheric and Climate Sciences (ACS)”, of the journal “Current Advances in Environmental Science (CAES)”, of “The Scientific World Journal (Meteorology)” and Member of the Advisory Board of the scientific journal “Meteorology, Hydrology and Water Management (MHWM)”. Additionally, he has edited two books and seven special issues in different international journals.

**Miscellaneous:** He has been a convener of the European Geosciences Union Assembly's since 1998 of the session “Air Pollution Modelling”, each year attracting ~60 conference presentations and >200 participants. He is appointed by the Danish EPA as the national focal point and expert of Task Force on Hemispheric Transport of Air Pollution under UNECE-LRTAP. He is a member of the Air Quality Modelling Evaluation International Initiative (AQMEII) steering committee. He is a member of the GLObal and Regional Atmospheric Modelling (GLOREAM) scientific committee. He was a member of the ACCENT T&TP (Transport and Transformation of Pollutants) steering committee.

**Awards:** In 2000, he was awarded the “Highly Commended Award, 2000”, by the Literati Club Awards for Excellence, UK. In 2003 he was awarded the Gold Prize of the International Green Apple Awards for Environmental Best Practice, 2003, for the air pollution forecast system THOR. Furthermore, in an international evaluation of NERI the evaluation panel stated the following about the THOR system: “NERI is in a unique position in covering all these spatial scales in the same department and in integrating all the scales in an operational system, which is used for 3-day forecasts, scenarios, management and assessment of air quality. The level of integration of air quality models coupling hemispheric, regional, urban background and urban street scales is *world class*”. He and colleagues was nominated to the Danish Design Award 2012 in the category Service- and experience design for the MapMyClimate homepage. He have had 2 PhD students who has been awarded - 1 with the “Young Scientist Eurotrac Award (10000 DKK) and 1 with the Lundbech Prize for young talents (100000 DKK) and the Aarhus University ST talent award (10000 DKK).

**Review assignments – international journals and research councils:** He is regular reviewer for 24 different international journals. Appointed panel member of the European Research Council Consolidator panel for Earth System Science. He is an assigned reviewer for the Norwegian Research Council. Member of the UK Natural Environment Research Council’s (NERC) roster of scientific referees. Peer reviewer for the Environmental Protection Agency, USA. Reviewer on proposals to the SRON National Institute for Space Research, The Netherlands. Reviewer on proposals to the Swiss National Science Foundation. Reviewer for the Polish-Norwegian Research Fund. Reviewer for the Portuguese Foundation for Science and Technology (FCT), Portugal. Member of the European Science Foundation (ESF) Pool of Referees. Member of EU COST pool of Experts in meteorology, Atmospheric physics and dynamics. Assigned member of the Qatar National Research Fund (QNRF), The National Priorities Research Program (NPRP). Member of the evaluation board of Centre d'Enseignement et de Recherche en Environnement Atmosphérique Joint Laboratory of. Ecole Nationale des Ponts et Chaussées (ENPC/EDF R&D), France. Member of the evaluation panel of EU COST action 728. Panel Member of ERC (2016-).

## Education

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- 1982-1985     High School student at Stenhus Gymnasium, Holbæk.
- 1991            BSc in geophysics and physics at the Niels Bohr Institute for Astronomy, Physics and Geophysics, Geophysical Department, University of Copenhagen.

- 1994 MSc in geophysics, meteorology and atmospheric sciences. Main subjects in master thesis: climatology, boundary layer meteorology, time series analysis and statistical methods. Degree from The Niels Bohr Institute for Astronomy, Physics and Geophysics (NBIfAFG), Geophysical Department, University of Copenhagen (KU). MSc thesis prepared in collaboration with Risø National Laboratory, Wind Energy and Atmospheric Physics Department.
- 1998 PhD in atmospheric modelling and atmospheric physics. Main subjects: development of models for transport, dispersion, deposition, and chemical transformation of air pollutants, Eulerian and Lagrangian transport models, weather forecast models, model validation, numerical algorithms and visualization techniques. Degree from The Niels Bohr Institute for Astronomy, Physics and Geophysics, Geophysical Department, University of Copenhagen. Research performed at the National Environmental Research Institute (NERI), Department of Atmospheric Environment (ATMI) and Risø National Laboratory, Wind Energy and Atmospheric Physics Department. Title of PhD thesis: Brandt, J, 1998: "Modelling Transport, Dispersion and Deposition of Passive Tracers from Accidental Releases". PhD thesis, National Environmental Research Institute, Roskilde, Denmark. 307 pp.

## **Professional experience**

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- 1978-1988 Library work (1978-1985), farming (1978-1985), kinder garden (1986), factory work (1986-1987), supervisor (rusvejleder) for new students at University of Copenhagen (1986-1988), truck driver (1987-1988).
- 1987-1989 Computer assistant at Andelsbanken. Working with backup routines and procedures.
- 1989-1994 Project leader of AIM-Research FARMSTAT group. Responsible for management and organization of the group, including up to 12 staff members, data treatment and reporting (8 reports/year in English) of statistical investigations concerning the use of pesticides at farms in Denmark.
- 1993-1994 Scientific assistant at NERI/ATMI. Work with atmospheric long-range transport models of air pollution and chemical schemes. Development of advanced visualization techniques and computer animations of model results.
- 1994 Staff scientist at NERI/ATMI. Work with chemical schemes and meteorological data used in air pollution models.
- 1995-1997 PhD student at NERI/ATMI and Risø National Laboratory, Wind Energy and Atmospheric Physics Department.
- 1998-1999 Research Scientist at NERI/ATMI. In this period the integrated THOR model system was developed.

- 1998-2001 Scientific Group Co-ordinator at NERI/ATMI for the group: “Air pollution in rural areas”.
- 2000-2011 Senior Scientist at NERI/ATMI. In 2007 the Institute changed from being a part of the Ministry of Environment to Aarhus University.
- 2001-2002 Scientific Group Leader at NERI/ATMI for the group: “Integrated modelling”.
- 2002-2004 Head of Section at NERI/ATMI for the Section: “Integrated modelling”. The section includes 4 senior scientists, 4 PhD students, 1 staff scientist and 1 secretary.
- 2005-2006 Head of Section at NERI/ATMI for the "Research Section for Modelling". The section includes 22 staff members (7 senior scientists, 1 senior adviser, 3 scientists, 8 academic staff (2 of these are also master students), 2 PhD students, 1 master student and 1 secretary. The scientific strategy of the section is to further develop air pollution models for air quality forecasting, scenario studies, management and assessment from global to local scale and to model human exposure. Furthermore, integration of air pollution models with other models (socio-economic, marine, terrestrial, climate, and human health).
- 2006-2011 Head of Section at Aarhus University, NERI/ATMI for “Integrated Model systems”. The section consists of ~20 senior scientists and scientists, PhD students and academic staff members. Responsible for strategic development as above.
- 2006-2011 “Mentor” at University, NERI/ATMI, including HR and management of ~15 staff members.
- 2011-2013 Senior Scientist, MSK, at Aarhus University, Department of Environmental Science (ENVS).
- 2011-2017 Head of Section at Aarhus University, Department of Environmental Science for the section “Atmospheric Modelling”. The section consists of >12 senior scientists, senior advisors, PhD students and assistant researchers. Full responsibility for staff management and development, strategic development, project portfolio and acquisition of external funding in the section.
- 2013- Professor of Atmospheric Modelling, at Aarhus University, Department of Environmental Science (ENVS).
- 2017-2021 Centre Director of Aarhus University interdisciplinary Centre for Climate Change (<http://iClimate.au.dk>).
- 2021-2023 Partial sick leave.

## Postgraduate courses

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- 1993 Application Visualization System (AVS). May 13-15, 1993, at The Danish Computing Centre for Education and Research (UNI-C), Lyngby, Denmark.
- 1995 Numerical atmospheric models. Feb. - May 1995, NBIfAFG.
- 1995 Numerical parallel methods. Feb. - May 1995, NBIfAFG.
- 1996 Atmospheric chemistry. Feb. - May 1996, NBIfAFG.
- 1996 Programming Parallel Computers. August 1996, UNI-C.
- 1997 Sandbjerg winter school in physics. Arranged by NBIfAFG, Jan. 1997, Sønderborg, Denmark.
- 1997 IRIX System Administration. Arranged by Silicon Graphics at Dansk Data Elektronik, August 25-28, 1997, Copenhagen, Denmark.
- 1998 AVS Express – a scientific visualisation software, February 16, 1998. Arranged by UNI-C, Denmark.
- 1998 Project management course, November 9-11, 1998. Arranged by NERI, Denmark.
- 2003 Course in management and “PU samtaler”, February 17, 2003. Arranged by Connector.
- 2003 ”Vejen til en god ansøgning til EU’s forskningsmidler”, Course in proposal writing, EuroCenter, Technological Institute, Denmark, October 10th, 2003.
- 2004 ”Klar til ledelse” (a human resources management course). Statens lederuddannelse, Personalestyrelsen. August 6, September 2-3, 2004, October 7-8 and November 18-19, 2004, including homework between.
- 2011 Personal Leadership - PL<sup>TM</sup>, Given by Mindshorizon, Odense, February 14-16, 2011.
- 2011 Course in “Forskningsledelse”, given by Learn2Lead. Arranged by the Faculty of Science and Technology, Aarhus University, 8-9 September, 11-12 October, and 14-15 November, 2011.
- 2012 Course in “MUS”, February 8-9, 2012. Arranged by IMPLEMENT Consulting Group for Aarhus University.
- 2012 Course in advanced FORTRAN 90/95 programming, June 28, 2012 at ENVS.



- 2012 Course in PhD supervision, 6-7 December 2012, Aarhus University, Faculty of Arts, CUDiM.
- 2013 Course in "Den gode ledelsessamtale – træning i MUS", Aarhus University, September 25, 2013.
- 2015 Course in team management, by Learn2lead. 25.-26. November 2015 at Holckenhavn Slot, Nyborg. Including a one-day follow-up, January, 2016.
- 2015 Course in R and OpenAir – statistics and graphical software, Aarhus University, 14-16 December, 2015.
- 2016 Media Training, by reporters Morten Løkkegaard and Klaus Laursen, 21.-22. September. 2016, Sandbjerg Gods, Sønderborg.

### **Key personal assignments, professional societies, committees, commissions of trust, etc.**

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- 1997-2002 Member of the European Geophysical Society (EGS).
- 2002- Member of the European Geosciences Union (EGU)
- 2000- Member of the Danish Society for Atmospheric Research (DSAR)
- 2000 Chair for the modelling task force at the EUMETNET workshop, DWD, Workshop on ground-level Ozone Forecasting, Offenbach, Germany, February 21-23, 2000.
- 2001-2003 Member of a Danish expert group in near field dispersion of genetic modified crops
- 2004 Invited expert at the ACCENT-T&TP meeting: Frontiers in Transport and Transformation of Pollutants, ACCENT-T&TP Barnsdale Expert Discussion Meeting, 2004, Barnsdale Hall Hotel, Rutland Water, UK, 18<sup>th</sup> to 21<sup>st</sup> October 2004.
- 2005-2007 Member of the national CBRN network in Denmark (Chemical, Biological, Radiological and Nuclear risks)
- 2005-present National Focal Point and National Expert of Task Force on Hemispheric Transport of Air Pollution under UNECE-LRTAP ([www.htap.org](http://www.htap.org)). Appointed by the Danish EPA. Meetings in Brussels (June 1-3, 2005), Washington DC (January 30-31, 2006), Moscow (June 5-8, 2006), Beijing (15-21 October, 2006).
- 2005-2010 Associated member of ACCENT AT2 (Air Pollution Modelling) and T&TP (Transport and Transformation of Pollutants).

- 2005-2010 Member of the ACCENT T&TP (Transport and Transformation of Pollutants) steering committee. (ACCENT is: Atmospheric Composition Change: the European Network; <http://www.accent-network.org>).
- 2005-2010 Member of the scientific committee for Centre d'Enseignement et de Recherche en Environnement Atmosphérique Joint Laboratory of. Ecole Nationale des Ponts et Chaussées (ENPC/EDF R&D), France.
- 2006 Invited expert at the ACCENT/WMO Expert Workshop in support of IGACO, Geneva, 24-26 April, 2006.
- 2006-2007 Member of the International Scientific Advisory Committee of the 6th International Conference on Ecosystems and Sustainable Development, 2007, Coimbra, Portugal, 5-7 September, 2007.
- 2007- EU Cost action ES0602 - 81; Towards a European Network on Chemical Weather forecasting and Information Systems. Appointed by the Danish Agency for Science, Technology & Innovation.
- 2008-present Member of the Scientific Steering Committee of AQMEII – “Air Quality Model Evaluation International Initiative”. The primary object of this International Initiative is to rapidly advance air quality modeling science by bringing together model developers and users on both sides of the Atlantic. Meetings in The Netherlands (2008) and Ispra (18-19 Sep. 2008).
- 2008-09 Member of the Scientific Steering Committee of Urban development and climate change: Approaching integrated strategies for mitigation and adaptation through urban planning and land management. Workshop and conference, arranged by University of Copenhagen 13/3-2009.
- 2010 National Expert of EU Expert panel on Atmospheric transport of Volcanic Ashes Appointed by the Danish Agency for Research and Innovation.
- 2010- Associated member of ACCENT-PLUS (Atmospheric Composition Change: the European Network - Policy Support and Science). <http://www.accent-network.org>
- 2011-2015 Special Adviser to the FWC manager for the Framework Contract for services related to the review of the Thematic Strategy on Air Pollution supporting air quality assessment and management Tender DG ENV.C.3/FRA/2011/0008.
- 2012- Member of the European Energy Research Alliance (EERA) Joint Programme on Smart Cities.
- 2012- Member of AU Energy.

- 2012- Member of the scientific committee GLOREAM/ACCENT (GLObal and Regional Atmospheric Modelling/Atmospheric Composition Change: the European Network)
- 2015 Chair of the business collaboration committee at Aarhus University, Department of Environmental Science.
- 2016- Co-leader of the Strategic Growth Area (SGA) "Air pollution and human health impacts" at Aarhus University, Department of Environmental Science.
- 2016 Member of appointment committee for professorship "Industrial Ecology" at Aarhus University, Denmark
- 2017-2018 Aarhus University representative in the national reference group for H2020, "Climate action, environment, Resource efficiency and Raw materials".
- 2017-2019 Member of Aarhus University ST tenure and promotions committee.

### **Organization of international workshops and conferences**

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- 1998 Convener at the European Geophysical Society XXIII Assembly, Nice, France, April 20-24, 1998. Title of session: "OA11 Mesoscale transport of air pollution including land/sea areas".
- 1999 Convener at the European Geophysical Society XXIV Assembly, Den Haag, The Netherlands, April 19-23, 1999. Title of session: "OA14: Open session on mesoscale transport of air pollution".
- 2000 Convener at the European Geophysical Society XXV Assembly, Nice, France, April 22-26, 2000. Title of session: "OA21: Open session on mesoscale transport of air pollution".
- 2001 Convener at the European Geophysical Society XXVI Assembly, Nice, France, March 26-30, 2001. Title of session: "OA15: Mesoscale transport of air pollution".
- 2001 Organizer of the 2<sup>nd</sup> AEROCARB modelling workshop, NERI, Roskilde, Denmark, September 2001.
- 2002 Convener at the European Geophysical Society XXVII Assembly, Nice, France, April 21-26, 2002. Title of session: "OA15: Mesoscale transport of air pollution".
- 2003 Convener at the EGS-AGU-EUG Joint Assembly (EGU XXVIII Assembly), Nice, France, April 6-11, 2003. Title of session: "AS23: Atmospheric Environment and Urban Meteorology".

- 2004 Convener at the 1st EGU Assembly, Nice, France, 25-30 April, 2004. Title of session: "AS1.05 Atmospheric Environment - modelling, monitoring and assessment".
- 2004 Organizer of the 2nd GLOREAM/EURASAP workshop, Copenhagen, Denmark, September 6-8, 2004.
- 2004 Organizer of the 5th FLOODRELIEF workshop, Roskilde, Denmark, November 1-3, 2004.
- 2005-06 Member of the scientific committee of APMS'2007 (Air Pollution Modeling and Simulation).
- 2005 Convener at the 2nd EGU Assembly, Vienna, Austria, 24-29 April, 2005. Title of session: "AS3.16 Air Pollution Modelling".
- 2005 Member of the scientific steering committee of the 3rd GLOREAM/EURASAP workshop, TNO, The Netherlands, 6-8 September, 2005.
- 2006 Convener at the 3rd EGU Assembly, Vienna, Austria, 2-7 April, 2006. Title of session: "AS3.06 Air Pollution Modelling: Air Quality and Hazardous Accidents (to the 20th Chernobyl Anniversary)". Supported by ACCENT T&TP.
- 2006 Co-organizer of the Barnsdale ACCENT-T&TP expert meeting regarding Chemical Weather, 2007.
- 2007 Convener at the 4th EGU Assembly, Vienna, Austria, 24-29 April, 2007. Title of session: "Air Pollution Modelling".
- 2008 Convener at the 5<sup>th</sup> EGU General Assembly, 13-18 April, 2008. Title of session: "Air Pollution Modelling".
- 2008 Co-organiser on the workshop: "Mapping the knowledge in the Nordic countries within the field of interactions between climate change, air pollution and related impacts", 28-29 August, 2008 held at Carlsberg Academy, Copenhagen. Funded by the NMR.
- 2009 Convener at the European Geophysical Union General Assembly 2009, Vienna, Austria, April 19-24, 2009. Title of session: "AS3.6 Air Pollution Modelling"
- 2010 Convener at the European Geophysical Union General Assembly 2010, Vienna, Austria, April 2010. Title of session: "AS3.4 Air Pollution Modelling"
- 2010 Co-organiser on the Conference on Energy, Environment and Health – Optimization of Energy Systems, Held at the Carlsberg Academy, Copenhagen, May/June 2010.

- 2011 Convener at the European Geophysical Union General Assembly 2011, Vienna, Austria, April 2011. Title of session: “AS3.4 Air Pollution Modelling”
- 2012 Convener at the European Geophysical Union General Assembly 2012, Vienna, Austria, April 2012. Title of session: “AS3.7 Air Pollution Modelling”.
- 2013 Convener at the European Geophysical Union General Assembly 2013, Vienna, Austria, April 7-12, 2013. Title of session: “AS3.7 Air Pollution Modelling”
- 2014 Convener at the European Geophysical Union General Assembly 2014, Vienna, Austria, April 29-May 2, 2014. Title of session: “AS3.8 Air Pollution Modelling”.
- 2015 Convener at the European Geophysical Union General Assembly 2015, Vienna, Austria, April 12-17, 2015. Title of session: “AS3.8 Air Pollution Modelling”.
- 2016 Convener at the European Geophysical Union General Assembly 2016, Vienna, Austria, April 17-22, 2016. Title of session: “AS3.23 Air Pollution Modelling”.
- 2017 Convener at the European Geophysical Union General Assembly 2017, Vienna, Austria, April 23-28, 2017. Title of session: “AS3.23 Air Pollution Modelling”.
- 2018 Convener at the European Geophysical Union General Assembly 2018, Vienna, Austria, April 23-28, 2018. Title of session: “AS3.23 Air Pollution Modelling”.
- 2019 Convener at the European Geophysical Union General Assembly 2019, Vienna, Austria, April xx-xx, 2019. Title of session: “AS3.21 Air Pollution Modelling”.
- 2020 Convener at the European Geophysical Union General Assembly 2020, Vienna, Austria, April xx-xx, 2020. Title of session: “Air Pollution Modelling”.
- 2021 Convener at the European Geophysical Union General Assembly 2021, Vienna, Austria, April xx-xx, 2021. Title of session: “Air Pollution Modelling”.

## **Editorial work**

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- 1999 Editor on proceedings from the workshop on Large Scale Computations in Air Pollution Modelling, Sofia, Bulgaria, July 6-10, 1998. Published by Kluwer Academic Publishers, NATO Science Series, Series 2: Environmental Security, Vol. 57, 1999, pp. 392.
- 1999 Editor on a special issue of Environmental Management and Health, Vol. 10, No. 4, 1999.
- 1999 Editor on a special issue of Physics and Chemistry of the Earth, Part B: hydrology, Oceans and Atmosphere, Vol. 26, No. 2, 2001. Title of issue: “Mesoscale transport of air pollution”.

- 2001 Editor on a special issue of Physics and Chemistry of the Earth, Parts A/B/C: hydrology, Oceans and Atmosphere, Vol. 27, Issue 35, 2002. Title of issue: "Mesoscale transport of air pollution". Guest Editors: J. Brandt and T. Mikkelsen.
- 2002-2024 Member of the editorial board of the journal Atmospheric Chemistry and Physics in the subject of atmospheric modelling.
- 2002 Editor on a special issue of Atmospheric Chemistry and Physics, 2002: "Mesoscale transport of air pollution". Editors: J. Brandt and M. Heimann
- 2003 Editor on a special issue of Atmospheric Chemistry and Physics, 2003. Title of issue: "Mesoscale transport of air pollution". Editors: J. Brandt and T. Mikkelsen.
- 2004 Editor on a special issue of Atmospheric Chemistry and Physics, 2004. Title of issue: "Atmospheric Environment and Urban Meteorology". Editors: J. Brandt and O. Hertel.
- 2005 Editor on a special issue of Atmospheric Chemistry and Physics, 2005. Title of issue: "Atmospheric Environment, Monitoring and Assessment ". Editors: Lise M. Frohn, J. Brandt and O. Hertel.
- 2005 Brandt, J. & Frohn, L. M. (eds.) 2005: Proceedings of the 2nd GLOREAM/EURASAP Workshop, Copenhagen, September 6-8, 2004. Modern developments in modelling and chemical data analysis. National Environmental Research Institute, Denmark. 132pp.
- 2010-2012 Editor on a special issue of Atmospheric Chemistry and Physics, 2011, with the title "An integrated approach to study atmospheric greenhouse and related gases at the Bialystok tall tower, eastern Poland" (Eds.: J. Lavri, M. Heimann and J. Brandt).
- 2011-present Member of the editorial board of the journal "Atmospheric and Climate Sciences".
- 2012-present Member of the editorial board of "The Scientific World Journal". as part of the journal's Meteorology subject area.
- 2012-present Member of the Advisory Board of the scientific journal "Meteorology, Hydrology and Water Management (MHWM) – Research and Operational Applications".
- 2013-present Member of the editorial board of the journal "Current Advances in Environmental Science (CAES)".

- 2013-2016 Editor on a special issue of Atmospheric Chemistry and Physics, with the title “Haze-fog forecasts and near real time (NRT) data application”. Co-editors: Sunling Gong, and Xiao-Ye ZHANG.
- 2017-2018 Member of the editorial board of a joint special issue between Wind Energy Science, Atmospheric Chemistry and Physics and Atmospheric Measurement Techniques on the Perdigão experiments.

## **Referee and review assignments**

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### **Reviewer for the following international journals:**

1. Atmospheric Environment (since 1996).
2. Physics and Chemistry of the Earth (since 1996).
3. Journal of Applied Meteorology (since 1997).
4. Journal of Geophysical Research – Atmosphere (since 1999).
5. Journal of Forest, Soil and Ecology (since 2000)
6. Journal of Atmospheric Chemistry (since 2000)
7. Journal of the Air & Waste Management Association (since 2001)
8. Environmental Management and Health (since 2002)
9. Environmental Modelling and Software (since 2002)
10. Atmospheric Chemistry and Physics (since 2002)
11. Natural Hazards and Earth System Sciences (since 2003)
12. Environmental Pollution (since 2004)
13. Geophysical Research Letters (since 2004)
14. International Journal of Environment and Pollution (since 2005)
15. Environmental Fluid Mechanics (since 2007)
16. Quarterly Journal of the Royal Meteorological Society (since 2007)
17. Boreal Environment Research (since 2007)
18. Ecological Modelling (since 2008)
19. The Journal of Atmospheric and Oceanic Technology (since 2008)
20. Journal of Applied Meteorology and Climatology (since 2008)
21. Advances in Science and Research (since 2011)
22. The Scientific World Journal (since 2012)
23. Environmental Science and Technology (since 2012)
24. International Journal of Sustainable Transportation (since 2012).
25. Journal of Chemical Engineering and Materials Science (since 2013)

### **Reviewer for the following Research Councils and EU Research Programmes:**

1. Reviewer on proposals in the areas of environment and development, climate change, and basic research projects. For the Norwegian Research Council (1998 - present).
2. Assigned member of the Research Council of Norway’s roster of scientific referees, 2002- present. Reviewer of three applications in 2002, five applications in 2003, nine applications in 2005, eight in 2006, three in 2007, two in 2008, eight in 2009, five in 2012. The evaluations in 2006 and 2009 included a one day discussion meeting in Oslo on the proposals together with the other reviewers.

3. Assigned member of the UK Natural Environment Research Council's (NERC) roster of scientific referees from 2002. Reviewer of two applications in 2004.
4. Peer reviewer on the Versar's GENII v.2 model system for the Environmental Protection Agency, USA, 2003. The documentation of the system was pp. 400 in total. The review was 30 pp.
5. Reviewer on proposals to the SRON National Institute for Space Research, The Netherlands (2004, 2005, 2007, 2010, 2013).
6. Reviewer on proposals to the Swiss National Science Foundation (2007).
7. Reviewer on two proposals to the Polish-Norwegian Research Fund (2008).
8. Member of the European Science Foundation Pool of Referees (2009-).
9. Assigned member of the Qatar National Research Fund (QNRF), The National Priorities Research Program (NPRP) (2009-). Two applications in 2011, one in 2012, one in 2013.
10. Reviewer on proposals for the Netherlands Space Office (NSO), Dutch research council NOW (2010, 2012)
11. Reviewer on proposals for the Portuguese Foundation for Science and Technology (FCT), Portugal. Two proposals in 2012.
12. Member of EU COST pool of Experts in meteorology, atmospheric physics and dynamics (2012-).
13. Member of the European Science Foundation College of Expert Reviewers (2016-2019).
14. Member of the European Research Councils pool of remote reviewers for Starting Grands, Consolidator Grands and Advanced Grands (2016-2017).

#### **Evaluation of research institutions:**

1. Evaluation of Centre d'Enseignement et de Recherche en Environnement Atmosphérique Joint Laboratory of. Ecole Nationale des Ponts et Chaussées (ENPC/EDF R&D), France, 2006-2007. Review meetings at September 15th, 2006 and June 15th, 2007 in Paris.

#### **Evaluation of project/networks:**

1. Member of the evaluation panel of COST 728, Meeting in Geneva, February 2010.
2. Review of the EU project "The international North Sea Region Climate Change Assessment (NOSCCA) - an analysis of the scientific legitimate knowledge for science and decision-making". April 2014.

#### **Research council panel membership**

1. Appointed member of the Consolidator Grant panel of the European Research Council (ERC), dealing with **Earth System Science**, (2016-). Meetings in Bruxelles in April and September 2016.



## Lectures, teaching and supervising

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- 1985-1991 Physics and mathematics for a number of high school students and university (economics) students.
- 1995 Co-supervisor for a MSc thesis in meteorology concerning Lagrangian puff models at University of Cologne, Germany.
- 1995-1997 Teacher of the course "Geophysical Fluid Dynamics" at NBIfAFG, Geophysical Department, University of Copenhagen. Around 30 students every year over three years.
- 1999 Supervisor on a BSc project on "Modelling the Spreading of Airborne Pollution from a Release" at the Technical University of Denmark. Informatics and Mathematical Modelling. Section for Numerical Analysis. Students: Marie Lund Andersen and Rikke Høj Kjeldsen. <http://www.imm.dtu.dk/~pch/Projekter/air-pollution.html>. Final grade: 11.
- 1999 Co-supervisor on a BSc project on "solar chimneys" at University of Roskilde, Denmark. Students: Anders Kofoed-Wiuff and 5 others.
- 1999-2003 Supervisor for Lise M. Frohn on a PhD project with the title: "A study of long-term high-resolution air pollution modelling". PhD Defence 15/8, 2003. Lise won the Eurotrac-II Young Scientist Award for the work (1500 Euro). Thesis: Frohn, L. M., 2004: A study of long-term high-resolution air pollution modelling. PhD thesis, National Environmental Research Institute, Roskilde, 444 pp.
- 1999 External lectures with the title: "Scientific visualization" in the course "Scientific Computing". Technical University of Denmark. Informatics and Mathematical Modelling. Section for Numerical Analysis. October 11, 1999.
- 1999 External lectures with the title: "Kemiske atmosfæremodeller" in the course "Modellering af miljørelaterede problemstillinger". Technical University of Denmark. Informatics and Mathematical Modelling. Section for Numerical Analysis. November 15, 1999.
- 2001-2002 Supervisor for Carsten Ambelas Skjøth, on a BSc project concerning statistical methods for atmospheric model evaluation.
- 2000-2002 Supervisor for Carsten Ambelas Skjøth on a MSc thesis concerning nested atmospheric modelling (Skjøth, C. A., 2002: "A high-resolution weather forecast model for the next generation air pollution forecast system THOR - implementation of nesting and two convective parameterizations and validation against surface measurements", National Environmental Research Institute, Roskilde, pp. 97). Final grade: 10

- 2000-2003 Co-supervisor for Camilla Geels on a PhD project. Thesis: Geels, C., 2003: Simulating the Current CO<sub>2</sub> Content of the Atmosphere: Including Surface Fluxes and Transport Across the Northern Hemisphere. PhD thesis. University of Copenhagen. Niels Bohr Institute for Astronomy, Physics and Geophysics and National Environmental Research Institute. Department of Atmospheric Environment. 238 pp.
- 2000 External lectures with the title: “Scientific visualization” in the course “Scientific Computing”. Technical University of Denmark. Informatics and Mathematical Modelling. Section for Numerical Analysis. November 6, 2000.
- 2002-2003 Co-supervisor for Jeffrey T. Payne, visitor on a Valle Fellowship, University of Washington, Seattle, on a MSc project concerning hydrological and meteorological modelling.
- 2003-2005 Supervisor for Jan Frydendall on a MSc thesis concerning chemical data assimilation. (Frydendall, J., 2006: “Development, implementation and testing of a simple chemical data assimilation algorithm”. Niels Bohr Institute, University of Copenhagen, pp. 98.) Final grade: 10.
- 2003-2006 Co-supervisor for Kaj M. Hansen on a PhD project. Thesis: Hansen, K. M., 2006: Transport of persistent organic pollutants into the Arctic. PhD thesis. Department of Atmospheric Environment, National Environmental Research Institute, Roskilde, Denmark. 250 pp.
- 2004-2005 Supervisor for Gitte B. Hedegaard on a MSc thesis concerning air pollution climate modelling. Thesis: Hedegaard, G. B., 2006: “Impacts of climate change on air pollution levels in the northern hemisphere”. Niels Bohr Institute, University of Copenhagen, pp. 97. Final grade: 11.
- 2005-2008 Supervisor for Carsten Ambelas Skjøth on a PhD project. Thesis: Skjøth, C. A., 2008: "Integrating Measurements, Phenological Models and Atmospheric Models in Aerobiology - Creating New Concepts within Aerobiological Integrated Monitoring and Forecasting", pp. 123.
- 2007-2009 Co-supervisor for Ngo Tho Hung (Vietnam), RUC, on a PhD project concerning air pollution modelling and management of urban air environment in Vietnamese context.
- 2007 Co-supervisor for Julie Marie Falk, Geographical Institute, KU, on a MSc study on increased methane concentrations impacts on atmospheric chemistry.
- 2007-2011 Supervisor for Gitte B. Hedegaard on a PhD project concerning climate change impacts on air pollution levels in the Northern Hemisphere, with special focus on Europe and the Arctic. Thesis: Hedegaard, G. B., 2011: “Future Air Pollution Levels in the Northern Hemisphere”, pp 112. Funded by (FUU, KU, DMI and DMU).

- 2008 Supervisor for Ayoe Buus Hansen on a MSc thesis with the title: “Semi-Lagrangian Methods in Air Pollution Models”, pp. 97. Final grade: 12.
- 2009-2012 Supervisor for Ayoe Buus Hansen on a PhD project. Thesis: Hansen, A. B., 2012: “Challenges in Air Pollution Modeling - Focusing on Advection, Model Evaluation, and Impact on Human Health”, Department of Environmental Science, Aarhus University, pp. 439. The PhD was a part of Centre for Energy, Environment and Health (CEEH), funded by the Danish Strategic Research Council.
- 2010-2014 Supervisor for Jeremy D. Silver on a PhD project with the title “Development and application of methods for chemical data assimilation of remote sensing/in situ data for integrated monitoring and impact assessment”. Funded by PhD Mobility Stipends from the Danish Research Council. Jeremy was in October 2013 awarded Lundbeckfondens talent prize for young scientists (100000 DKK). In June 2014 he was awarded Aarhus University talent prize for PhD students.
- 2010-2013 Supervisor for Azimeh Zare on a PhD project on climate change impacts on natural emissions and air pollution.
- 2011-2012 Co-supervisor for Heidi Villadsen on a MSc thesis with the title “Black carbon depositions on snow and sea ice - modelling the climate impact of reduced albedo in the NH cryosphere with EC-Earth”, pp. 75. Final grade: 12.
- 2011 Two invited lectures on air pollution modelling and environmental externalities. A half-day training session on “understanding environmental externalities”, European Environmental Agency, 20 June 2011, Copenhagen, Denmark.
- 2012-2013 Co-supervisor for Hossein Mohammad Asgari, University of Tehran, on a PhD project concerning PM<sub>10</sub> modelling of natural dust, including a 6 month stay at ENVS.
- 2012-2013 Co-supervisor for Fabio Ballini, Dept. of Naval, Electrical, Electronic and Telecommunication Engineering (DITEN), University of Genoa. Title: “Air Pollution from Ships in the Ports: Cold Ironing Technologies as a Cost-Effective Technology”.
- 2012 Two invited lectures at the PhD course “Airborne environment: Assessment of exposures and health outcomes”, Sandbjerg Castle, Denmark, December 3<sup>rd</sup> – 5<sup>th</sup> 2012.
- 2013-2016 Co-supervisor for Thor-Bjørn Ottesen on a PhD project concerning urban street canyon modelling.
- 2014-2015 Mentor for Marta Lloret Llinares, a post doc at Department of Molecular Biology and Genetics, Aarhus University, as a part of Empower Talent!", a mentor scheme for academic staff at Aarhus University.

- 2015 Supervisor for Fabien Espilit, France, during a 4-month internship at AU/ENVS. Project: Modelling boundary layer processes and evaluating the sensitivity to integrated health impact assessments from air pollution.
- 2015-2020 Co-supervisor for Christa Møllenbach Bregnbæk in collaboration with DTU. Project: “Modeling the effect of emission control measures”, with the aim to establish and apply a framework that will enable the evaluation of the effect of emission control measures and initiatives against set targets for air quality.
- 2015 Invited double lecture at DTU on Air pollution, health impacts and related external costs. October 29<sup>th</sup>, 2015.
- 2016 Co-supervisor for Marta Behjat, Italy for at MSc study concerning health impacts assessments for Italy under the EU Erasmus programme.
- 2016 Lecture at the 4th PhD Training School under the COST Action Td1105 EuNetAir on “Modelling, Methods and Technologies for Air Quality Control”. External costs of Air Pollution – outset in the Danish EVA model system. Copenhagen, Denmark, April 21, 2016.
- 2016-2017 Co-supervisor for Anne-Line Brülle, University of Southern Denmark on a MSc study on air pollution, health and welfare.
- 2016 Invited double lecture at DTU on Air pollution, health impacts and related external costs. October 20<sup>th</sup>, 2016.
- 2017 Co-supervisor for Ewa Christiane Gackenholtz on a MSc thesis about health impacts assessment from air pollution.
- 2017 Invited double lecture at DTU on Cost of Air pollution. October 26<sup>th</sup>, 2017.
- 2018-2021 Co-supervisor on the project “Long-term exposure to PM<sub>2.5</sub> and morbidity and mortality in Denmark: do high concentrations of secondary PM<sub>2.5</sub> in Southeastern Denmark contribute to greater health burden than in other regions of Denmark?”. PhD study. University of Copenhagen.
- 2020-2023 Supervisor for Christopher Andersen on the project “High-resolution modelling of air pollution in Denmark”. PhD study, Aarhus University.

## **Mobility**

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- 1995 Six months at University of Cologne, Institute of Geophysics and Meteorology, Atmospheric Environmental Research, EURAD-Project, Cologne, Germany.
- 2016 Visit at NASA Goddard Institute for Space Studies, New York, February 14-20, 2016.

## Awards

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- 2000 “Highly Commended Award, 2000”, by the Literati Club Awards for Excellence, 2000, UK for the paper: Brandt, J., J. H. Christensen and Z. Zlatev, 1999: "Real time predictions of transport, dispersion and deposition from nuclear accidents". *Environmental Management and Health*. Vol. 10, No. 4, pp. 216-223, 1999.  
<http://www.emeraldinsight.com/literaticlub/whatsnew/2000awards/highly.htm#emh>
- 2003 Gold Winner of the International Green Apple Awards for Environmental Best Practice, 2003. Presented at The House of Commons, London, United Kingdom, November 6, 2003. Prize given for the THOR Air Pollution Forecast and Management System. The judges' citation reads: "An innovative and low cost air pollution model system has been developed as part of the campaign to reduce the number of premature deaths caused by air pollution. The system has adaptations from broad and long-range levels, right down to particular problems of individual streets. It also can be adopted for use worldwide."
- 2003 PhD student awarded: Lise M. Frohn won the Eurotrac-II Young Scientist Award (1500 Euros).
- 2004 “In recognition of outstanding work”, Jørgen Brandt has been admitted as a Fellow of Wessex Institute of Great Britain.
- 2012 Nominated to Danish Design Award 2012 in the category Service- and experience design for the MapMyClimate project. Statement from the Jury (In Danish): *”MapMyClimate er et spændende og ambitiøst bud på en måde at skabe opmærksomhed om vores klimaudfordringer, og hvordan vi som enkeltpersoner kan bidrage til reduktion af ressourceforbruget. Med sit sammenhængende og overskuelige design inspirerer sitet til at gå på opdagelse og giver med en lyntest af brugerens ressourceforbrug indgang til nyttige råd og perspektivering”.*
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- 2013 PhD student awarded: Jeremy D. Silver was awarded Lundbeckfondens talent prize for young scientists (100000 DKK).
- 2013 PhD student awarded: Jeremy D. Silver was awarded Aarhus University talent prize for PhD students (10000 DKK).
- 2023 The paper “Long-term exposure to low ambient air pollution concentrations and mortality among 28 million people: results from seven large European cohorts within the ELAPSE project,” published in *The Lancet Planetary Health*, 6 (1), January 2022, was selected by the International Society for Environmental Epidemiology (ISEE) as the **Best Environmental Epidemiology Paper (BEEP) published in 2022**. “The article makes an outstanding contribution to the knowledge of environmental epidemiology


and was selected because of its quality, originality, importance and expected impact, particularly through its novel application of methodology”.

## **Project leader/principal investigator in research projects**

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- 1995-1997 Development of Tracer Models. Project sponsored by the Danish Research Academy, NERI and Risø National Laboratory.
- 1994-1997 ATMES-II, ETEX (European Tracer EXperiment). <http://rtmod.ei.jrc.it/atmes2/>
- 1994-1997 Model intercomparison project, EKO-4 (Emergency Exercises and Information) within the 5th NKS programme (Nordic Nuclear Safety Research).
- 1996- Transport and Dispersion Modelling – Air Pollution Forecasts from Regional to Urban Street Scales. Part of GLOREAM (Global and Regional Atmospheric Modelling). EU sub-project under EUROTRAC-2.
- 1996-1999 WEPTEL (Innovative WEather Presentation on TELevision). EU-ESPRIT project 22727. Proposal in 1995. <http://www.dmu.dk/Atmospheric-Environment/WEPTEL/index.htm> (NERI 400.000 Euro)
- 1997-1998 EUROAIR (Studying Environmental Problems in Europe by Using Air Pollution Models). EU-ESPRIT project 24618. Proposal in 1996. <http://www.dmu.dk/-AtmosphericEnvironment/EUROAIR/INDEX.HTM>. (NERI: 250.000 Euro)
- 1998-2000 VisionQuest. Visualization of Science Results for High Schools. Project with UNI-C, Denmark (NERI 100.000 DKK).
- 1998-present THOR integrated air pollution prognoses and scenario management model system capable of producing automatic operational weather and air pollution forecasting, scenarios, assessment, monitoring, and air pollution management from hemispheric scale, over regional scale and urban background scale, down to individual streets in cities. Examples of products from the system can be seen at the home pages:
1. THOR home page: <http://thor.dmu.dk>
  2. Operational home page at DMU: <http://luft.dmu.dk> (link: “3-day forecasts for air pollution in Denmark”).
  3. Demo home page: <http://www.dmu.dk/AtmosphericEnvironment/thor/index.htm>.
  4. City of Aalborg: <http://www.aalborg-trafikinfo.dk> (links: “traffic situation right now” and “Air pollution”).
  5. City of Copenhagen. <http://www.kk.dr/luftudsiget> (ca. 500000 DKK per year from selling operational products – weather- and air pollution forecasts to municipalities and private companies)

- 1999-2003 PhD project: Model performance optimization for ultra-high resolution, inhomogeneous conditions. Comprehensive, high-resolution, 3-D chemistry and transport modelling of air pollution over Danish areas. PhD student: Lise M. Frøhn (NERI: 1.6 mio DKK).
- 2000-2002 MEAD (Marine Effects of Atmospheric Deposition). EU 5<sup>th</sup> framework programme (NERI 300000 Euro). <http://www.uea.ac.uk/env/mead/>
- 2000-2003 Airborne European Regional Observations of the Carbon Balance, AEROCARB. EU 5<sup>th</sup> framework programme. Proposal in 1999. <http://www.aerocarb.cnrs-gif.fr/> (NERI: 200000 Euro)
- 2001 FØJO, Udvikling af redskaber til at sikre økologisk jordbrug mod virkningerne af genmodificerede (GM) afgrøder. Videnssynthese. Proposal in 2000. <http://www.foejo.dk> Development of tools to secure organic farming against the effects of genetically modified crops. Funded by the Danish Research Centre for Organic Farming (NERI: 250000 DKK).
- 2002-2003 TOPRO (Tool for protection against contamination by GMO). Danish Natural Science Foundation (NERI: 400000 DKK).
- 2002-2005 FLOODRELIEF (REaL tImE Flood Decision Support System Integrating Hydrological, Meteorological and Radar Technologies. EU 5<sup>th</sup> framework programme. Proposal in 2001. (1.5 mill Euro in total, NERI: 250000 Euro)
- 2002-2003 *CITY-DELTA*, European Modelling Exercise, An Inter-comparison of long-term model responses to urban-scale emission-reduction scenarios An activity in support of the EU - CAFE Programme CAFE – Clean Air For Europe.
- 2002 Common Cause 2002. European exercise on civil emergency preparedness, Funded by the EU Commission.
- 2003 Low emission zones in cities. A NERI/ATMI project.
- 2003-2008 CARBOEUROPE-IP (Integrated Project), Assessment of the European Terrestrial Carbon Balance, 6th EU framework programme. (NERI: 70000 Euro).
- 2004-2009 Associated member of ACCENT T&TP (Transport and Transformation of Pollution) and ACCENT air pollution modelling. EU Network of Excellence.
- 2005-2008 Pollen prognoses. a project supported by University of Copenhagen and Astma-Allergi Forbundet.
- 2005-2006 Development and application of data assimilation in regional scale modelling. Project funded by the NMR (0,5 mill DKK in total, NERI 150000 DKK).

- 2006 The Virtual City of Copenhagen. Funded by IT-Væksthuset. (250000 DKK in total, NERI: 50000 DKK)
- 2006-2009 HYSCENE - Environmental and Health Impact Assessment of Scenarios for Renewable Energy Systems with Hydrogen. Funded by the Danish Research Council. (total of 2 mill. DKK).
- 2007- EU Cost action ES0602 - 81; Towards a European Network on Chemical Weather forecasting and Information Systems. Danish member of committee.
- 2007-2012 Gitte Hedegaards PhD. Funding obtained from University of Copenhagen and Danish Meteorological Institute. (NERI 1250000 DKK)
- 2007-2012 CEEH – Center of Environment, Energy and Health. Funded by the Danish Strategic Research Council, Program Committee for Energy and Environment. (28 mill DKK in total, NERI 4.7 mill DKK)
- 2007-2009 GMES (Global Monitoring for Environment and Security) service extensions for Denmark. Earth observation improved air quality forecast. Project funded by the European Space Agency (ESA). The project is part of PROMOTE (PROtocol MOniToring for the GMES Service Element: Atmosphere) (300000 Euro in total, NERI 250000 Euro).
- 2010-2011  MapMyClimate (formerly Copenhagen Climate). Project funded by the Council of Technology and Innovation, Denmark (2 mill DKK, NERI 350.000 DKK). Homepage nominated to Danish Design Award 2012 in the category Service- and experience design.
- 2010-2013 EcoGlobe, co-applicant on proposal to the Research Councils mobility funding for PhD students. Five PhD grants were funded, one of these for ATMI on chemical data assimilation (total of 7.5 mio DKK, ENVS 1.5 mio DKK).
- 2010 External costs for the European power and road traffic sectors, project for the European Environmental Agency (ENVS: 150.000 DKK).
- 2011-2012 EVA-Nature - External cost of environmental impacts – an extension to the EVA (Economic Valuation of Air Pollution) system. Funded by the Direction at DMU – “globaliseringsmidlerne” (ENVS: 400.000 DKK).
- 2012-2015 Framework Contract for services related to the review of the Thematic Strategy on Air Pollution supporting air quality assessment and management Tender DG ENV.C.3/FRA/2011/0008. The full contract is 4 Mio Euros.
- 2012-2013 Services to assess the reasons for non-compliance of ozone target value set by Directive 2008/50/EC and potential for air quality improvements in



- relation to ozone pollution. Part of the Framework contract. Task leader (Total 211000 Euro, ENVS: 86000 Euro)
- 2012-2013 Review of: Provisions for Air Quality Measurement, Air Quality Modelling, Management Framework, Assessment, and Public Information; and Stakeholder Consultation Support. Part of the Framework contract. Task leader (Total 250000 Euro; ENVS: ~100.000 Euro).
- 2012-2013 ”Betydning af klimaændringer versus emissionsændringer på fremtidige luftforureningsniveauer af POPer og kviksølv”, Funded by the Danish EPA - Miljøstyrelsen, Miljøstøtte til Arktis, DANCEA. (ENVS: 600.000 DKK).
- 2013 Health impacts from air pollution, project for the Danish EPA. (Total 420000 DKK; ENVS: 300000 DKK; ATMO 60000 DKK).
- 2013 Source allocation for air pollution in Copenhagen. Project for Copenhagen Municipality (ENVS: 243700 DKK).
- 2013-2014 Air Quality Governance in the ENPI East Countries - AIR-Q-GOV. Regional Pilot project – Armenia, Azerbaijan, Belarus, Georgia, Moldova, Russian Federation, Ukraine. Development and implementation of air pollution assessment system to estimate effects of different urban planning and transportation schemes in the partner countries (ENVS: 1.4 mio DKK).
- 2013-2016 Virtual Power Plant for Smart Grid Ready Buildings and Customers. ForskE1. (Total 5 mio. DKK; ENVS: 500000 DKK).
- 2013 ”Beregning af sundhedseffekter relateret til luftforurening i København og Frederiksberg ved brug af modelsystemet EVA”, Project for Copenhagen Municipality (ENVS: 180000 DKK).
- 2013-2015 Framework Contract on Services Supporting the Evaluation, Implementation and Further Development of Air Quality Policies with reference number ENV.C.3/FRA/2013/0013 published by the European Commission’s DG Environment.
- 2015-2020 Framework Contract for provision of expert assistance with indicators, analysis, assessments and policy evaluation in support of the 7<sup>th</sup> Environmental Action Programme. Tender EEA/IEA/14/006 for the European Environmental Agency.
- 2015-2018 Multiple Framework service contract No IP/A/ENVI/FWC/2014-027 for the provision of external expertse on regulatory and policy issues in the fields of environmental policies, climate change, sustainable development, public health and food safety. Lot 1: Environmental Policies. Framework contract for the European Parliament.

- 2014-2016 Health impacts and external costs from air pollution in Denmark over 25 years. Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2014-16”. (Total 900000 DKK; ENV5: 750000 DKK).
- 2014 “Grænseoverskridende sundhedseffekter af luftforurening til og fra Danmark” Project funded by the Danish EPA (99000 DKK).
- 2015-2020 “Understanding the link between Air pollution and Distribution of related Health Impacts and Welfare in the Nordic countries (NordicWelfAir)”. Funded by NordForsk under the Nordic Programme on Health and Welfare. (Total 30 mio. NOK; ENV5: 7.9 mio NOK)
- 2015 ”Brændeovnes bidrag til luftforurening i København”. Project for Copenhagen Municipality (ENV5: 53000 DKK).
- 2015-2016 Samarbejdsprojekt omkring kapitel om luftforurening i vismandsrapporten Miljø og Økonomi, 2016, Det Økonomiske Råds Sekretariat (DØRS). (ENV5: 250000 DKK).
- 2015 ”Hvad sker der på H. C. Andersens Boulevard?”. Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2015”. (500000 DKK).
- 2015-2016 “Helbredseffekter og eksterne omkostninger af alle kilder i København”. Project for Copenhagen Municipality (ENV5: 150000 DKK).
- 2016-2020 “Role of technologies in an energy efficient economy – model-based analysis of policy measures and transformation pathways to a sustainable energy system (REEEM)”. EU project (ENV5: 116000 Euro).
- 2016-2019 “Air-pollution and drinking water - a population-based cohort study of environmental risk factors for ADHD”, Aarhus University Research Foundation (AUFF), (Total 2900000 DKK; ENV5: 245000 DKK)
- 2016 Samarbejdsprojekt omkring kapitel om luftforurening i vismandsrapporten Miljø og Økonomi, 2017, Det Økonomiske Råds Sekretariat (DØRS). (ENV5: 25000 DKK).
- 2016-2017 “Helbredseffekter og eksterne omkostninger af alle kilder i Aarhus”. Project for Aarhus Municipality (ENV5: 200,000 DKK).
- 2017 ”Kortlægning af og virkemidler for luftforurening i Region Hovedstaden”. Project for Region Hovedstaden together with COWI. (Total 1500000 DKK; ENV5 700,000 DKK).
- 2017-2019 “Kontrakt om rådgivning og samarbejde med DCE om beregning af helbredseffekter og eksterne omkostninger af emissioner fra halmfyr (Total 225,000 DKK).

2017-2021	Aarhus University interdisciplinary Centre for Climate Change, iClimate. (Total 15,000,000 DKK)
2020-2021	GrønBNP med KU (250,000 DKK)
2020-2021	Vietnam project for ENS (280,000 DKK)
2020-2023	OUH collaboration (250,000 DKK)
2020-2021	CURE H2020 project (175,000 DKK)
2021-2023	Corona and air pollution with KU (75,000 DKK)
2022-2024	IDUM (100,000 DKK).
2022-2023	GrønBNP med KU (50,000 DKK).

### **Participation in other research projects**

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1993-	Long-range transport modelling. A NERI/ATMI project.
1994	AMAP (Arctic Monitoring and Assessment Programme). <a href="http://www.amap.no/">http://www.amap.no/</a>
1994-1996	SMP1 (Danish Strategical Environmental Research Programme). Sub-project with title: Long-Range Tracer Experiment and Model Evaluation.
1998-1999	SARA (Sensitivity Analysis of Regional-scale Atmospheric Models). Common Nordic Air Pollution. Project funded by NMR. <a href="http://www.dmu.dk/atmospheric-environment/sara/">http://www.dmu.dk/atmospheric-environment/sara/</a> (250000 DKK)
1996-1998	Environmental Mathematics and Air Pollution Models. NATO Science Programme and Cooperative Partners.
1998-2000	Concentration and fluxes of atmospheric CO <sub>2</sub> and particulates in the North East Atlantic Region. Global Change Programme.
1998-	Ozone prognoses. A NERI/ATMI project. <a href="http://luft.dmu.dk">http://luft.dmu.dk</a>
2000	CONCAWE Project. European oil industry organization for environment, health and safety.
2001	EuroBioNet (European Network for Assessment of air quality using bio-indicator plants).
2001-2002	BALPOP (Impacts of input changes of selected POPs to the Baltic Sea).

- 2003-2004 Environmental economy and unit costs; analysis and review of the EcoSense model. Funded by the Danish Environmental Protection Agency
- 2004-2005 Calculation of externalities; initial development of a Danish pendant to EcoSense. Funded by the Danish Environmental Protection Agency.
- 2005-2006 Development of an integrated model system for socio-economic calculations (the EVA system - External Valuation of Air pollution). Funded by NERI (Café project)
- 2005-present NOVANA (National Monitoring and Assessment Programme for the Aquatic and Terrestrial Environment Programme).
- 2005-2006 Assessment of the EU Thematic Strategy. A project funded by the Ministry of Finance, Denmark.
- 2007-2009 ASSET (ASsessing SENSitiveness to Transport), Project funded by the EU Commission. Proposal in 2006.
- 2007-2008 AEROBACTICS (Assessment of the quantity, identity, viability, origin and dispersion of airborne micro-organisms for application in crisis management tools. Project funded by the EU Commission.
- 2007 Assessment of the quantity, identity, viability, origin and dispersion of airborne micro-organisms for application in crisis management tools (AEROBACTICS). Support project funded by NERI.
- 2010-2012 Renewable energy in the transport sector using biofuels as energy carriers. Funded by the Danish Strategic Research Council, Program Committee for Energy and Environment.
- 2011 Analysis of the Gothenburg Protocol. Nordic Council of Ministers.
- 2012-13 Mapping the knowledge in the Nordic countries within the field of interactions between climate change, air pollution and related impacts. Funded by the Nordic Council of Ministers.
- 2012 “Virkemidler i ren-luft zoner”. Project funded by the Danish EPA (MST).
- 2012 Luftforurening fra tog og ikke-vejgående maskiner i byområder. Project funded by the Danish EPA (MST). ENVIS: ~150000 DKK.
- 2012-13 ”Kombinerede emissions- og klimaændringers indflydelse på luftforurening og de relaterede sundhedseffekter og omkostninger i Norden” (FutureAirNordic - FAN), Funded by the Nordic Council of Ministers. (ENVIS: 300000 DKK)

- 2012-13 ”Udvikling af forskningsgrundlaget for en Ecosystem Service tilgang til integrerede analyser af arealanvendelses prioriteringer”, Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2012-13”.
- 2012-13 ”Udvikling af analysemetoder for energi- og stofstrømme i forskellige transportløsninger”, Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2012-13”.
- 2012-13 ” Udvikling af internet baseret og interaktivt website for trafikalt luftforurening på gadeniveau”, Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2012-13”.
- 2013 ”Sparede sundhedsmkostninger ved ren-luftzone i København”. Project for Copenhagen Municipality (ENVS: 120000 DKK).
- 2013 ”Årsager til de fortsat høje koncentrationer af NO<sub>2</sub> på H.C. Andersens Boulevard”. Project funded by the Danish EPA (MST) (ENVS: 400.000 DKK).
- 2014-2016 “Biogas in the transport sector”. Funded by ”Strategiske midler DCE – Nationalt Center for Miljø og Energi 2014-16”. (Total 700000 DKK).
- 2014 ”Effekt af NO<sub>2</sub> ved flytning af vejbaner”. Funded by the Danish EPA.
- 2013 ”Partikelkoncentrationer i udeluft ved boliger ved forskellige lokationer” Funded by Velux. (Total 145000 DKK).
- 2011-2011 “Luftkvalitetsvurdering i Roskilde Kommune”. Funded by Roskilde Kommune.
- 2011-2012 ”Miljøøkonomiske beregningspriser for emissioner”. Contract for the Danish Ministry for Environment.
- 2015-2016 Biobase project. DCA project.
- 2015-2016 “AU Air & Health - Particles, Gases, Exposure, Health, Externalities”. AU Interdisciplinary Network Grant. (Total 400000 DKK).
- 2015-2016 ”Afdækning af vandbaserede friluftaktiviteter og vandfugle, når de raster, fælder, yngler eller overvintrer i Danmark”. Funded by Friluftsrådet (Total 750000 DKK)
- 2015-2017 “Miljøbiblioteksbog udvikling luftforurening”. Funded by DCE (ENVS: 200000 DKK).
- 2016-2017 “Air pollution exposure assessment for autism and other future studies”, funded by Regents of the University of California (UCLA) (350 k\$, ENVS 200000 DKK).

- 2016-2017 Air Pollution and Autism in Children, Project leader for ENVIS, Funded by National Institute of Health, USA via Danish Cancer Society Research Center (ENVIS: 200 000 DKK).
- 2016-2018 Health and Air, Health Effects Institute, USA (ENVIS: 533,000 DKK).
- 2016-2018 “Mortality and morbidity effects of long-term exposure to low-level PM<sub>2.5</sub>, black carbon, NO<sub>2</sub> and O<sub>3</sub>: an analysis of European cohorts”. The ELAPSE Project. Funded by Health Effects Institute (HEI), Boston USA. (ENVIS: 750,000 DKK)
- 2016-2020 “Air-pollution risk for Autism and ADHD - cross-disorder insights and genetic liability”. Funded by National Institutes of Health (NIH), USA. (ENVIS: 200,000 DKK)
- 2016-2018 Copernicus Atmospheric Monitoring Service (CAMS50), funded by ECMWF (120,000 Euro).
- 2017-2020 Mortality and morbidity effects of long-term exposure to low-level PM<sub>2.5</sub>, Black Carbon, NO<sub>2</sub> and O<sub>3</sub>: an analysis of European cohorts (“ELAPSE”), Task leader for ENVIS, Funded by Health Effects Institute (HEI), USA. (ENVIS: 113 000 USD).
- 2018-2021 Health effects of air pollution components, noise and socio-economic status (HERMES). Funded by Health Effects Institute (HEI). (ENVIS: 1.4 mio DKK)
- 2018- PANDA, Risk of autism/ADHD from air pollution. Funded by National Institute of Health (NIH), USA. (ENVIS: 800000 DKK).
- 2018-2020 “Impact of Exposure to Air Pollution on Asthma Development: A Multi-Exposure Assessment”. Funded by Health Effects Institute (HEI). (ENVIS: 200,000 DKK)
- 2018-2022 “Urban Brain: Air Pollution and Risk of Dementia”, funded by the Health Effects Institute (HEI) (ENVIS: 250,000 DKK).
- 2019 ”Udvikling i luftkvalitet for 2030 i relation til nationalt program for reduktion af luftforurening (NAPCP project)” (ENVIS: .
- 2019 Helbredseffekter af luftforurening I Frederiksberg Kommune (ENVIS: 277,000 DKK).
- 2019-2020 NOx-snyd med lastbiler udvikling af kontrolmetoder, MST, (ENVIS: 225,000 DKK).
- 2019-2020 Helbredseffekter af luftforurening i Københavns Kommune. (ENVIS: 238,000 DKK).

2018-2020	Asthma project. Health Effects Institute (HEI), USA. (ENVS: 370,000 DKK)
2019-2020	Air pollution exposure and risk of ALS. (ENVS: 228,000 DKK).
2019-2020	Air pollution and health, Nurse Cohort, with University of Copenhagen (ENVS: 200,000 DKK).
2019-2024	EXHAUSTION (Climate change impacts on human health), H2020 project (ENVS: 4.9 mio. DKK).
2020	Health assessment work in frame of the coming AMAP - DCE-AMAP project on air pollution health assessment in the Arctic area (200,000 DKK).
2020	NOVANA supplerende beregninger for kildeopdeling af luftforurening og helbredseffekter (ENVS: 175,000 DKK).
2020-2024	EXIMIOUS - Mapping Exposure-Induced Immune Effects: Connecting the Exposome and the Immunome. H2020 project. (ENVS: 500,000 DKK).
2020	Kildeopsplitning i NOVANA for 2020 (ENVS: 100000 DKK)
2020	Helbredseffekter af luftforurening i Odense Kommune. (ENVS: 250,000 DKK).
2020	Helbredseffekter af luftforurening i Københavns Kommune, undersøgelse af sod. (ENVS: 250,000 DKK).
2020-2021	MUDP project on health impacts from shipping (ENVS: ~250000 DKK).
2021	Kildeopsplitning i NOVANA (ENVS: 75000 DKK)
2021-2022	Work-related particulate exposure and ischemic heart disease. A national register-based follow-up study in the period 1995-2020 focussing on the nature of particles (DOC*X-DUST). (ENVS: 200000 DKK).
2022-2023	Data to BERTHA COVID-19 study (ENVS: 500000 DKK).
2022	Kildeopsplitning i NOVANA (ENVS: 75000 DKK).
2022	Analysis of new WHO Air Quality Guidelines in the Nordic countries and Europe, NMR. (ENVS: 950000 DKK).
2023	Opdaterede beregningspriser v4.0 for Miljøministeriets departement (ENVS: ~300000 DKK).
2023	Partikelprojekt for Tårnby

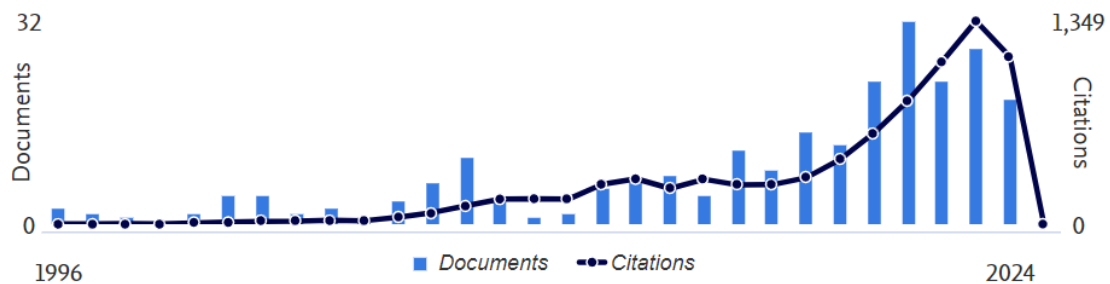
2023-	MARCHES, Horizon application ENVHLTH-04-01.
2024	Helbredsberregninger for Københavns Kommune.
2023-	CAMS2_40
2023	BenefitNature
2024	NordSmoke

## Publications and citations

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Jørgen Brandt has written 236 journal papers with peer review, and additional ~15 papers currently in review. H-index=51, >7400 citations in Scopus; H-index=49, >6700 citations in WoS. H-index=61 and >11400 citations in Google Scholar. Furthermore, 7 contributions to textbooks, 139 papers in international conference proceedings, 176 scientific/advisory reports and 38 popular articles. He has been first author or co-author on >600 presentations at national and international conferences - many of them invited.

Document & citation trends



Reference: Scopus (August 2024), H-index=52.

## Papers in international scientific peer reviewed journals

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1. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "Using a combination of two models in tracer simulations". *Mathematical and Computer Modelling*. Vol. 23, No. 10, pp. 99-115, 1996. [https://doi.org/10.1016/0895-7177\(96\)00057-X](https://doi.org/10.1016/0895-7177(96)00057-X)
2. Brandt, J., J. Wasniewski and Z. Zlatev, 1996: "Handling the chemical part in large air pollution models". *Journal of Applied Mathematics and Computer Science*. Vol. 6, No. 2, pp. 331-351, 1996.
3. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "The Danish Rimpuff and Eulerian Accidental release Model (The DREAM)". *Physics and Chemistry of the Earth*, Vol. 21. No. 5-6, pp. 441-444, 1996. [https://doi.org/10.1016/S0079-1946\(97\)81139-1](https://doi.org/10.1016/S0079-1946(97)81139-1)
4. Bastrup-Birk, A., J. Brandt, Z. Zlatev, and I. Uria, 1997: "Studying cumulative ozone exposures in Europe during a 7-year period". *Journal of Geophysical Research*, Vol. 102, No. D20, pp. 23917-23935, October 27, 1997. <https://doi.org/10.1029/97JD01966>



5. Bastrup-Birk, A., J. Brandt and Z. Zlatev, 1998: "Using partitioned ODE solvers in large air pollution models". *Systems Analysis Modelling Simulation (SAMS)*, Vol. 32, pp. 3-17, 1998.
6. Brandt, J., A. Bastrup-Birk, J. H. Christensen, T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1998: "Testing the importance of accurate meteorological input fields and parameterizations in atmospheric transport modelling, using DREAM - validation against ETEX-1". *Atmospheric Environment*, Vol. 32, No. 24, pp. 4167-4186, 1998. [https://doi.org/10.1016/S1352-2310\(98\)00170-8](https://doi.org/10.1016/S1352-2310(98)00170-8)
7. Brandt, J., J. H. Christensen and Z. Zlatev, 1999: "Real time predictions of transport, dispersion and deposition from nuclear accidents". *Environmental Management and Health*. Vol. 10, No. 4, pp. 216-223, 1999. *Paper awarded with the "Highly Commended Award, 2000" by the UK Literati Club Awards for Excellence, 2000.* <https://doi.org/10.1108/09566169910276058>
8. Zlatev, Z., J. Brandt and G. Geernaert, 1999: "Large scale air pollution models". *Environmental Management and Health*. Vol. 10, No. 4, pp. 198-200, 1999.
9. Ambelas Skjøth, C., A. Bastrup-Birk, J. Brandt and Z. Zlatev, 2000. Studying variations of pollution levels in a given region of Europe during a long time-period. *Systems Analysis Modelling Simulation (SAMS)*, Vol. 37, pp. 297-311, 2000. doi/10.5555/345432.345435
10. Hertel, O., Palmgren, F., Ellermann, T., Skov, H., Kemp, K., Hovmand, M.F., and Brandt, J., 2000. IUPAC. Air Quality in Denmark. *Chemistry International*, Vol. 22, No. 5, pp. 133-135, September 2000. <https://doi.org/10.1515/ci.2000.22.5.133>
11. Brandt, J., J. H. Christensen, L. M. Frohn and Z. Zlatev, 2000: "Numerical Modelling of Transport, Dispersion, and Deposition - Validation against ETEX-1, ETEX-2, and Chernobyl". *Environmental Modelling and Software*, 15, pp. 521-531, 2000. [https://doi.org/10.1016/S1364-8152\(00\)00035-9](https://doi.org/10.1016/S1364-8152(00)00035-9)
12. Brandt, J., J. H. Christensen, L. M. Frohn and Z. Zlatev, 2001: "Operational air pollution forecast modelling by using the THOR system". *Physics and Chemistry of the Earth (B)*, Vol. 26, No. 2, pp. 117-122, 2001. [https://doi.org/10.1016/S1352-2310\(00\)00415-5](https://doi.org/10.1016/S1352-2310(00)00415-5)
13. Brandt, J., J. H. Christensen, L. M. Frohn, F. Palmgren, R. Berkowicz and Z. Zlatev, 2001. Operational air pollution forecasts from European to local scale. *Atmospheric Environment*, Vol. 35, Sup. No. 1, pp. S91-S98, 2001. [https://doi.org/10.1016/S1352-2310\(00\)00415-5](https://doi.org/10.1016/S1352-2310(00)00415-5)
14. Frohn, L. M., J. H. Christensen, J. Brandt and O. Hertel, 2001: "Development of a high resolution integrated nested model for studying air pollution in Denmark". *Physics and Chemistry of the Earth (B)*, Vol. 26, No. 10, pp. 769-774, 2001. [https://doi.org/10.1016/S1464-1909\(01\)00084-3](https://doi.org/10.1016/S1464-1909(01)00084-3)
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  19. Brandt, J., J. H. Christensen and L. M. Frohn, 2002: "Modelling of transport and deposition of caesium and iodine from the Chernobyl accident using the DREAM model". *Atmospheric Chemistry and Physics*, Vol. 2, pp. 397-417. ([www.atmos-chem-phys.org/acpd/2/825/](http://www.atmos-chem-phys.org/acpd/2/825/)), 2002. <https://doi.org/10.5194/acp-2-397-2002>
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198. Interview til TV2 Østjylland om brændeovne, 3/12, 2020.
199. Kejserens ny klæder – den syge psykofarmaka. Privat kronik. Psykiatriavisen, 14/8 2022.
200. Luftforurening i Danmark rammer immunforsvaret. Politiken, 8/6-2023.
201. Ny dansk forskning: Barnets risiko forastma påvirkes allerede inde i mors mave. Politiken, 3/7-2023.
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## Web pages (some examples)

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1. The Danish Rimpuff and Eulerian accidental release Model, DREAM home page: <http://www.dmu.dk/AtmosphericEnvironment/WEPTel/DREAM>
2. The DMU-ATMI air pollution forecast system demo home page: <http://www.dmu.dk/thorben>
3. The THOR home page: <http://thor.dmu.dk>
4. The operational air pollution forecast home page: <http://luft.dmu.dk>
5. The DEHM home page (in Danish): <http://envs.au.dk/videnudveksling/luft/model/dehm/>

*The DREAM homepage was in 1998 awarded a "bull's eye" (pletskud) of the search machine Kvasir. The "bull's eye" states that the editorial office of Kvasir wishes to emphasize the web page. It is the content, design, technical solution or entertaining quality, which has made the editorial office of Kvasir to award this quality mark.*

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2. Brandt, J., 1998: "Modelling transport and dispersion of passive tracers from accidental releases". National Environmental Research Institute and Risø National Laboratory. Duration: 5 min.
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153. Lehtomäki, H. A. Asikainen, J. Brandt, C. Geels, A. Korhonen, I. Rumrich, O. Hänninen, 2016. Disease burden of air pollution in the five

- Nordic countries. International Institute for Environmental Studies (IIES), 2nd Annual Scientific Workshop, Kuopio, August 21-24, 2016.
154. Burman, M., J. Brandt, J.H. Christensen and M. Ketznel, 2017. High resolution modelling of Elemental Carbon for Denmark. Nordic Society for Aerosol Research (NOSA) 2017 Symposium. March 20-22, 2017 Lund, Sweden.
  155. Schmid, D., J. Brandt, U. Im, 2017. Investigation of impacts of different emission reduction scenarios on emission unit prices in Europe. Energy Modelling Platform for Europe (EMP-E) 2017 in Brussels, May 17 - May 18.
  156. Antonsen, S. P.L.H. Mok, R. T. Webb, P. B. Mortensen, J. J. McGrath, E. Agerbo, J. Brandt, C. Geels, C. B. Pedersen, 2018. Exposure to Nitrogen Dioxide during Childhood is Associated with Increased Risk of Schizophrenia. 6<sup>th</sup> Biennial Schizophrenia International Research Society conference. Integrated Prevention and treatment. Shifting the Way We Think. 4-8 April, 2018, Firenze, Italy.
  157. Pedersen, M., Z. J. Andersen, A.-M. N. Andersen, X. Basagaña, H. Bisgaard, J. Brandt, E. Budtz-Jørgensen, K. Bønnelykke, L. Stayner, M. Ketznel, B. Brunekreef, S. Loft, 2018. Impact of Exposure to Air Pollution on Asthma: A Multi-Exposure Assessment. Health Effects Institute 2018 Annual Conference, Chicago. April 29 - May 1, 2018.
  158. Raaschou-Nielsen, Ole; Lange, Theis; Ketznel, Matthias; Hvidtfeldt, Ulla Arthur; Brønnum-Hansen, Henrik; Münzel, Thomas; Hertel, Ole; Brandt, Jørgen; Sørensen, Mette. Health Effects of Air Pollution Components, Noise, and Socioeconomic Status ("HERMES"). 2018. Poster session præsenteret ved Health Effects Institute 2018 Annual Conference.
  159. Im, Ulas; Christensen, Jesper Heile; Geels, Camilla; Hansen, Kaj Mantzius; Brandt, Jørgen; Solazzo, E.; Alyuz, U.; Balzarini, A.; Baro, R.; Bellasio, R.; Bianconi, R.; Bieser, J.; Colette, A. ; Curci, G.; Farrow, A.; Flemming, J.; Fraser, A. ; Jiménez-Guerrero, P.; Kitwiroon, N.; Liu, P.; Nopmongkol, U.; Palacios-Peña, Laura; Pirovano, G.; Pozzoli, L.; Prank, M.; Rose, R.; Sokhi, R.; Tuccella, P.; Unal, A.; Vivanco, M. G.; Yarwood, G.; Hogrefe, C.; Galmarini, S. Contributions of domestic vs. foreign emission sources on major air pollutants over Europe and North America in the framework of AQMEII3 – A multi-model ensemble approach. 2018. Poster session præsenteret ved European Geophysical Union, Vienna, Østrig.
  160. Ozdemir, Huseyin; Im, Ulas; Christensen, Jesper Heile; Geels, Camilla; Frohn, Lise Marie; Brandt, Jørgen. 2019. Quantification of the Impact of Air Pollution on Human Health and Economy using the EVA System. Poster session presented at European Geophysical Union, Vienna, Austria.
  161. Geels, Camilla; Andersen, M. S.; Andersson, Camilla; Christensen, Jesper Heile; Forsberg, B.; Frohn, Lise Marie; Gislason, T.; Hänninen, O.; Hvidtfeldt, Ulla A.; Im, Ulas; Jensen, A.; Karvosenoja, N.; Kukkonen, J.; Karppinen, A.; Lindhjem, H.; Lehtomäki, H.; Lopez-Aparicio, S.; Moss, A.; Nielsen, Ole-Kenneth; Raaschou-Nielsen, Ole; Navrud, S.; Paunu, Ville-Veikko; Pedersen, C. B.; Plejdrup, Marlene Schmidt; Schwarze, P.; Seifert-Dähnn, I.; Sigsgaard, Torben; Sofiev, M.; Tekie, H.; Thorsteinsson, T.; Vennemo, H. ; Brandt, Jørgen. Air pollution and related health impacts within the Nordic region – an overview of the results coming out of the NordicWelfAir project. 2019. Poster session præsenteret ved 37th International Technical Meeting, Hamburg, Tyskland.
  162. Zorana Jovanovic Andersen, Jiawei Zhang, George Napolitano, Theis Lange, Rudi Westendorp, Tom Cole-Hunter, Jørgen Brandt, Thea Kølsher Fisher, Steffen Loft, Gerard Hoek, Youn-Hee Lim, 2022. Long-term exposure to air pollution and COVID-19 mortality



- and morbidity in Denmark: who is most susceptible? (AIRCODEN). HEI Conference, Washinton, June 2022.
163. Marie Pedersen, Shuo Liu, Jiawei Zhang, Zorana Jovanovic Andersen, Anne-Marie Nybo Andersen, Hans Bisgaard, Jørgen Brandt, Esben Budtz-Jørgensen, Klaus Bønnelykke, Lise Marie Frohn, Matthias Ketznel, Jibrán Khan, Youn-Hee Lim, Leslie Stayner, Bert Brunekreef, Steffen Loft, 2022. Long-term Exposure to Ambient Air Pollution and Asthma Incidence in Children. HEI Conference, Washinton, June 2022.
  164. Marie Pedersen, Shuo Liu, Zorana Jovanovic Andersen, Anne-Marie Nybo Andersen, Jørgen Brandt, Esben Budtz-Jørgensen, Klaus Bønnelykke, Lise Marie Frohn, Matthias Ketznel, Jibrán Khan, Leslie Stayner, Bert Brunekreef, Steffen Loft, 2022. Long-term Exposure to Ambient Air Pollution and Asthma Incidence in Children. 34<sup>th</sup> Annual ISEE Conference in Athens, Greece, in 18-21 September, 2022
  165. Marie Pedersen, Shuo Liu, Zorana Jovanovic Andersen, Anne-Marie Nybo Andersen, Jørgen Brandt, Esben Budtz-Jørgensen, Klaus Bønnelykke, Lise Marie Frohn, Jonathan Groot, Amélie Keller, Matthias Ketznel, Jibrán Khan, Angela Pinot de Moira, Leslie Stayner, Bert Brunekreef, Steffen Loft, 2022. Early-Life Exposure to Ambient Air Pollution and Asthma in the Children of the Danish National Birth Cohort – Does Asthma Definition and Adjustment for Cohort-Specific Covariates Matter? 34<sup>th</sup> Annual ISEE Conference in Athens, Greece, in 18-21 September, 2022.
  166. Isabell Katharina Rumrich, Antti Korhonen, Lise Marie Frohn, Camilla Geels, Jørgen Brandt, Sirpa Hartikainen, Otto Hänninen, Anna-Maija Tolppanen, 2024. Long-term exposure to air pollution and Parkinson's Disease diagnosis - a Finnish register-based study. Nordic Epi conference.

## **Presentations at conferences, workshops and seminars**

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1. Brandt, J., 1993: "Klimamålinger udført ved Forskningscenter Risø og Landbohøjskolens forsøgsstation Højbakkegård" (In English: "Climatic measurements carried out at Risø National Laboratory and at The Agricultural University's Experimental Station Højbakkegård"). At Risø National Laboratory, Denmark, December 7, 1993.
2. Brandt, J., 1994: "En analyse af klimamålinger udført ved Forskningscenter Risø og Landbohøjskolens forsøgsstation Højbakkegård" (In English: "An analysis of climate measurements carried out at Risø National Laboratory and at The Agricultural University's Experimental Station Højbakkegård"). At NBIfAFG, Denmark, May 6, 1994.
3. Brandt, J., 1995: "Using a combination of two models in tracer simulations (The DREAM)". At NERI, Denmark, April 4, 1995.
4. Brandt, J. and Z. Zlatev, 1995: "Animation of tracer model simulations". At the CALMAR workshop (Computer Applications of Large Models in Atmospheric Research), NERI, Denmark, May 26-27, 1995.
5. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1995: "Modelling of the two ETEX-releases compared with measurements from Risø". At the First Meeting on Nordic Dispersion/Trajectory Model Intercomparison with the ETEX-1 Experiment, Risø National Laboratory, Denmark, June 6-7, 1995.
6. Brandt, J., 1995: "Combining a Lagrangian puff-model with an Eulerian model for tracer simulations". At Universität zu Köln, Institut für Geophysik und Meteorologie, Atmosphärische Umweltforschung, EURAD-Projekt, Cologne, Germany, Juli 21, 1995.

7. Brandt, J. and Z. Zlatev, 1995: "Using a combination of two models in tracer simulations". At The X'th EUMAC workshop (European Modelling of Atmospheric Constituents), Cologne, Germany, August 30 - September 1, 1995.
8. Brandt, J., T. Ellermann, E. Lyck, T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1995: "Validation of a combination of two models for long-range tracer simulations". At the 21st NATO/CCMS international meeting on air pollution modelling and its application, American Meteorological Society, Baltimore, Maryland, USA, November 6-10, 1995.
9. Brandt, J. and Z. Zlatev, 1996: "Using different numerical algorithms in air pollution modelling". At the first annual Danish meeting on numerical methods, The Technical University of Denmark, February 14, 1996.
10. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "The Danish Rimpuff and Eulerian Accidental release Model (The DREAM)". At the European Geophysical Society XXI Assembly, Hague, Netherlands, May 6-10, 1996.
11. Brandt, J., I. Dimov, K. Georgiev, J. Wasniewski and Z. Zlatev, 1996: "Coupling the Advection and the Chemical Parts of Large Air Pollution Models". At PARA96. Workshop on applied parallel computing in industrial problems and optimization. UNIC, The Danish Computing Centre for Research and Education, Denmark, August 18-24, 1996.
12. Brandt, J., I. Uria and Z. Zlatev, 1996: "Studying cumulative ozone exposures in Europe during a seven-years period". At the 1st REMAPE workshop (Regional Modelling of Air Pollution in Europe). University of Copenhagen, Denmark, September 26-27, 1996.
13. Brandt, J., Dimov, I., Georgiev, K., Uria, I. & Zlatev, Z.: The Three-Dimensional Version of the Danish Eulerian Model. First REMAPE Workshop, University of Copenhagen, 26-27 September 1996.
14. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "Visualization and Animation of Accidental Releases". At the Fourth International Workshop on Real-time Computing of the Environmental Consequences of an Accidental Release from a Nuclear Installation. Aronsborg, Sweden, October 7-11, 1996.
15. Brandt, J. and Z. Zlatev, 1996: "Modelling and visualization of accidental releases". At NERI, Denmark, November 27, 1996.
16. Brandt, J. and Z. Zlatev, 1996: "Matematiske luftforureningsmodeller -struktur og troværdighed" (in english: Mathematical air pollution models - structure and reliability). At the 11th RUC Modelling day, Roskilde University, Denmark, November 28, 1996. *Invited talk.*
17. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "Udvikling af tracermodeller - langtransport og dispersion" (in english: Development of tracer models - long-range transport and dispersion). At the SMP center meeting on air pollution processes and models, Copenhagen, Denmark, November 29, 1996.
18. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1996: "The Danish Rimpuff and Eulerian Accidental release Model (The DREAM) - Results with ETEX-1". At the Second Meeting on Nordic Dispersion/Trajectory Model Intercomparison with the ETEX-1 Experiment, Helsinki, Finland, December 4-5, 1996.
19. Brandt, J., 1997: "Modelling atmospheric transport and dispersion of air pollutants". At the Sandbjerg winter school in physics, Sønderborg, Denmark, January 19-24, 1997. *Invited talk.*
20. Brandt, J., A. Ebel, H. Elbern, H. Jakobs, M. Memmesheimer, T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1997: "The importance of accurate meteorological input fields and accurate planetary boundary layer parameters, tested against ETEX-1". At ETEX

- Symposium on Long-range Atmospheric Transport. Model verification and Emergency Response. Vienna, Austria, May 13-16, 1997.
21. Brandt, J. and Z. Zlatev, 1997: "Studying long-range transport from accidental nuclear releases by mathematical models". At the 1st workshop on "Large-scale scientific computations". Varna, Bulgaria, June 7-11, 1997.
  22. Brandt, J. & Zlatev, Z.: Efficient Algorithms for the Chemical Part of Large Air Pollution Models. 1st Workshop on Large-Scale Scientific Computations, Varna, Bulgaria, 7-11 June 1997.
  23. Brandt, J. and Z. Zlatev, 1997: "Modelling transport and dispersion from accidental releases". At the 1st GLOREAM workshop, Aachen, Germany, September 10-12, 1997.
  24. Brandt, J. and Z. Zlatev, 1997: "Coupling of HIRLAM, DEM and DREAM". At the 3rd general WEPTEL meeting, Nyborg, Denmark, December 3-4, 1997.
  25. Brandt, J., 1998: "Modellering af transport, dispersion og deposition af radioaktivt udslip fra atomkraftværker". At the 12th RUC Modelling day, Roskilde University, Denmark, April 2, 1998. *Invited talk.*
  26. Brandt, J., 1998: "Applications of air pollution modelling", University of Leiden, The Netherlands. April 1998.
  27. Brandt, J., 1998: "Coupling meteorological models and air pollution models for real time forecasting". The Royal Meteorological Institute (KNMI), The Netherlands. April 1998.
  28. Brandt, J., 1998: "Presentation of results from air pollution models to the public". NOB Interactive, The Netherlands. April 1998.
  29. Brandt, J., T. Mikkelsen, S. Thykier-Nielsen and Z. Zlatev, 1998: "Testing meteorological fields and PBL parameterizations for modelling transport, dispersion, and deposition - validation against ETEX-1, ETEX-2, and Chernobyl. At the European Geophysical Society XXIII Assembly, Nice, France, April 20-24, 1998.
  30. Brandt, J., 1998: "Modelling transport, dispersion and deposition of passive tracers from accidental releases". At NBIfAFG, Geophysical Department, University of Copenhagen, May 7, 1998.
  31. Brandt, J. and Z. Zlatev, 1998: "Emissions, transport, deposition and monitoring: accuracy and model criteria for calculation of acidification and eutrofication in the Baltic region. Environmental effects of Baltic Ring and Baltic 21. At the National Environmental Research Institute, May 12, 1998.
  32. Brandt, J., 1998: "Modelling of transport and deposition of air pollution on European scale". For the "Round Table Journiers, Roskilde" At the National Environmental Research Institute, June 22, 1998.
  33. Brandt, J. and Z. Zlatev, 1998: "Real time predictions of transport and dispersion from a nuclear accident". At the NATO Advanced Research Workshop on Large Scale Computations in Air Pollution Modelling, Sofia, Bulgaria, July 6-10, 1998. *Invited talk.*
  34. Brandt, J., J.H. Christensen, and Z. Zlatev, 1998: "Modelling of high-resolution long-range transport and deposition from the Chernobyl accident by using DREAM". At the 2nd GLOREAM workshop, Madrid, September 16-18, 1998.
  35. Brandt, J., J. H. Christensen, and Z. Zlatev, 1998: "Numerical modelling of transport, dispersion and deposition - validation against ETEX-1, ETEX-2, and Chernobyl". At the International Conference on Air Pollution Modelling and Simulation (APMS98). October 26-29, 1998, Paris, France.
  36. Brandt, J. and Z. Zlatev, 1998: "Embedding of HIRLAM and DEM/DREAM in the WEPTEL project". 4th general WEPTEL meeting, December 9-10, 1998, Utrecht, The Netherlands.

37. Brandt, J., J. H. Christensen and Z. Zlatev, 1998: "Forecast and visualization of air pollution". European Environmental Agency, December 18, 1998, Roskilde, Denmark.
38. Brandt, J. and J. H. Christensen, 1999: "DMU-ATMI THOR Air Pollution Forecasts System". Miljøstyrelsen, Denmark, February 18, 1999.
39. Brandt, J., J. H. Christensen and Z. Zlatev, 1999: "Modelling air pollution forecasts using THOR". European Geophysical Society XXIV Assembly, Den Haag, The Netherlands, April 19-23, 1999. Title of session: "OA14: Open session on mesoscale transport of air pollution".
40. Brandt, J. and J. H. Christensen, 1999: "Udvikling af prognoser for luftforurening", 3. Panel meeting, National Environmental Research Institute, Denmark, June 4, 1999.
41. Brandt, J. and Z. Zlatev, 1999: "Operational embedding of HIRLAM, DEM/DREAM and MetePresenter". Final WEPTTEL review, Brussels, June 22, 1999.
42. Brandt, J. and J. H. Christensen, 1999: "Operational air pollution forecast modelling using THOR". Seminar for members from the Chinese Academy of Meteorological Sciences, the Chinese Meteorological Center, and the Beijing Meteorological Bureau, China. At the National Environmental Research Institute, Denmark, June 23, 1999.
43. Brandt, J., J. H. Christensen and Z. Zlatev, 1999: "Air pollution forecasting and scenarios". Conference on "Current topics in atmospheric chemistry modelling". At the European Centre for Research and Advance Training in Scientific Computation (CERFACS), Toulouse, France, July 1-2, 1999. *Invited Talk*.
44. Brandt, J. and J. H. Christensen, 1999: "Regional and urban air pollution forecasts". DMU-ATMI seminar, National Environmental Research Institute, August 10, 1999.
45. Brandt, J. and J. H. Christensen, 1999: "Modellering af luftforureningsprognoser på Europæisk skala og lokal skala". Dansk Miljøforskningskonference, København, 19-20 August, 1999.
46. Brandt, J. and J. H. Christensen 1999: "Luftforureningsprognoser". Seminar for the Danish Radio, NERI, Roskilde, September 20, 1999.
47. Brandt, J., J. H. Christensen, L. M. Frohn and Z. Zlatev, 1999: "Optimization of operational air pollution forecast modelling on European scale". At the 3rd GLOREAM workshop, Napoli, Italy, September 24-26, 1999.
48. Brandt, J. and J. H. Christensen, 1999: "DMU's system for ozonprognoser", DaMS - Dansk Meteorologisk Selskabs video transmitted meeting about ozone. Risø National Laboratory, September 30, 1999. *Invited talk*.
49. Brandt, J., 1999: "Modellering og formidling af transport af radioaktive udslip fra atomkraftværker". Dansk Selskab for Risikovurderinger, Ingeniørforeningen. Ingeniørhuset, Copenhagen, Denmark. October 7, 1999. *Invited talk*.
50. Brandt, J., J. H. Christensen, L.M. Frohn, R. Berkowicz and Z. Zlatev, 1999: "DMU-ATMI THOR air pollution forecast system - an integrated operational forecast system on regional and urban scale". Danish Society for Atmospheric Research, København, 14-15 October, 1999.
51. Brandt, J. and J. H. Christensen, 2000: "DMU-ATMI THOR air pollution forecast system - an integrated operational forecast system on regional and urban scale". EUMETNET Workshop on Ground-level Ozone Forecasting, Offenbach, Germany, 21-23 February, 2000.
52. Brandt, J., Christensen, J.H., Frohn, L.M., Geernaert, G., Berkowicz, R. & Zlatev, Z.: Development of a New Operational Air Pollution Forecast System on Regional and Urban Scale. Millennium NATO/CCMS International Technical Meeting on Air Pollution Modelling and Its Application, Boulder, Colorado, USA, 15-19 May 2000.

53. Brandt, J., J. H. Christensen and C. Geels, 2000. "CO<sub>2</sub> modelling with the DEHM model". CARBOEUROPE CLUSTER Meeting, Perugia, Italy, 1-5 March, 2000.
54. Brandt, J. and J. H. Christensen 2000: "Forecasting regional and local air pollution", EUROTRAC 2000 Symposium, Garmisch-Partenkirchen, Germany. *Invited talk*.
55. Brandt, J., J. H. Christensen, L. M. Frohn and R Berkovicz, 2000: "Operational air pollution forecast from regional scale to urban street scale", European Geophysical Society XXV Assembly, Nice, France, April 25-29, 1999. Title of session: "OA21: Open session on mesoscale transport of air pollution".
56. Brandt, J., 2000: "Vejrudsigter og luftforurening", Rotary club, Nykøbing Falster, Denmark, May 24, 2000.
57. Brandt, J., 2000: "Modelværktøj til udarbejdelse af luftforureningsprognoser". Københavns Miljøkontrol, Københavns Rådhus, May 25, 2000.
58. Brandt, J., J. H. Christensen, L. M. Frohn and R. Berkowicz, 2000: "Luftforureningen fra trafikken – prognoser og data på Internettet, Københavns Miljøfestival, June 6-10, 2000.
59. Brandt, J. and J. H. Christensen, 2000: "The DMU-ATMI THOR air pollution forecast system - an integrated operational forecast system on regional and urban scale", First GURME workshop, Kuching, Malaysia 14-17 August, 2000. *Invited talk*.
60. Brandt, J., C. Geels, J. H. Christensen, 2000: "CO<sub>2</sub> forward modelling using DEHM", 1st AEROCARB modelling workshop, Paris, France, 25-26 September, 2000.
61. Brandt, J., C. Geels, J. H. Christensen, 2001: "CO<sub>2</sub> nested modelling using DEHM", AEROCARB workshop, Autrans, France, March 14-15, 2001.
62. Brandt, J., J. H. Christensen, L. M. Frohn and R Berkowicz, 2001: "Air pollution forecasting from regional to urban street scale – implementation and validation for two cities in Denmark". European Geophysical Society XXVII Assembly, Nice, France, March 26-30, 2001. Title of session: "OA18: Urban air pollution modelling".
63. Brandt, J., J. H. Christensen, L. M. Frohn and R Berkowicz, 2001: "Air pollution forecasting in Europe at different scales". 2nd International Conference on Air Pollution Modelling and Simulation (APMS01), Paris, France, April 9-12. *Invited lecture*.
64. Brandt, J., 2001: "Luftudsigten for the næste 3 dage...". DAVID meeting, Kolding, Denmark, August 15th, 2001.
65. Brandt, J., C. Geels, J. H. Christensen, 2001: "CO<sub>2</sub> invers modelling using DEHM", 2nd AEROCARB modelling workshop, Roskilde, Denmark, August 29-31, 2001.
66. Brandt, J., 2001: "The DMU-ATMI THOR Air Pollution Forecast System". At the AQ Assessment and Management, a two week training course. National Environmental Research Institute, Roskilde, Denmark. September 14, 2001.
67. Brandt, J., C. Geels, J. H. Christensen, L. M. Frohn, 2001: "Quantifying spatial and temporal variations of CO<sub>2</sub> concentrations using a nested hemispheric model", The fifth GLOREAM workshop, Wengen, Switzerland, September 24-26, 2001.
68. Brandt, J., C. Geels and J. H. Christensen, 2001: The Danish Eulerian Hemispheric Model - A hemispheric nested model for CO<sub>2</sub>. Third AEROCARB model workshop, Petten, The Netherlands, November 12-14, 2001.
69. Frohn, L. M., J. Brandt and J. H. Christensen, 2001: "Integrerede modelsystemer, status og visioner". Third Danish Society of Atmospheric Research (DSAR) workshop, November 15, 2000, Copenhagen, Denmark.
70. Brandt J., P. Bousquet, J. H. Christensen, P. Ciais, L. M. Frohn, C. Geels, M. Gloor, M. I. Gusti, M. Heimann, S. Houweling, U. Karstens, S. Körner, P. Peylin, C.

- Rödenbeck and A. T. Vermeulen, 2002: "A comparison of five atmospheric models for CO<sub>2</sub>". Second CarboEurope Meeting, Budapest, Hungary. March 5-8, 2002.
71. Brandt, J., C. Geels, J. H. Christensen and L. M. Frohn, 2002: "DEHM – a hemispheric nested model for CO<sub>2</sub>". EGS XXVII General Assembly, Nice, France, April 22-26, 2002. Session: BG8. Magnitude and variability of terrestrial carbon balance of Europe.
  72. Brandt, J., J. H. Christensen, L. M. Frohn, C. Geels, M. Fischer og M. B. Christensen, 2002: "Luftforureningsudsigter og trafikscenarier", Natur- og Miljøforskningskonference, 22-23 August 2002, H. C. Ørsted Institut, Copenhagen, Denmark.
  73. Brandt, J., C. Geels, J. H. Christensen and L. M. Frohn, 2002: "DEHM base functions, pre-subtracted tracers and validations". The third general AEROCARB meeting, November 4-5, Barcelona, Spain.
  74. Brandt, J., J. H. Christensen, C. Ambelas Skjøth, C. Geels and L. M. Frohn, 2002: "NERI - Organisation, relevant activities, and role in FLOOD RELIEF". First FLOOD RELIEF meeting, DHI, Hørsholm, Denmark, December 9-10, 2002.
  75. Brandt, J., 2003: Luftforureningsmodeller til brug for beredskabet. ABC-udvalget under Totalforsvarsregion VI. Beredskabsstyrelsen Nordsjælland, Hillerød.
  76. Brandt, J., J. H. Christensen, C. Ambelas Skjøth, C. Geels and L. M. Frohn, 2003: "Recent developments in high resolution weather forecasting and progress in FLOOD RELIEF". Second FLOOD RELIEF meeting, Wroclaw, Poland, June 2-3, 2003.
  77. Brandt, J., J. H. Christensen and L. M. Frohn, 2003: "The THOR integrated air pollution forecast and management system". Seminar at the Lithuanian EPA, Vilnius, Lithuania. September 25-26, 2003.
  78. Brandt, J., J. H. Christensen, L. M. Frohn and C. Geels, 2003: "The THOR integrated air pollution forecast and management system". GLOREAM/EURASAP workshop 2003 - Modern developments in modelling and chemical data analysis. Cologne, Germany, September 29 to October 1, 2003.
  79. Brandt, J., J. H. Christensen, C. Ambelas Skjøth, C. Geels and L. M. Frohn, 2003: "High resolution weather forecasting using dynamical downscaling". Third FLOOD RELIEF meeting, Cambridge, UK, December 8-9, 2003.
  80. Brandt, J., C. Ambelas Skjøth, J. H. Christensen, C. Geels and L. M. Frohn, 2003: "Validation of a high resolution weather forecasting using dynamical downscaling". Fourth FLOOD RELIEF meeting, Lüneburg, Germany, UK, May 3-5, 2004.
  81. Brandt, J., Jesper H. Christensen, Lise M. Frohn, Camilla Geels, Kaj M. Hansen and Carsten A. Skjøth, 2004: "The THOR integrated air pollution forecast system – current status and ongoing developments". 2<sup>nd</sup> GLOREAM/EURASAP Workshop, Modern developments in modelling and chemical data analysis, Copenhagen, September 6-8, 2004.
  82. Brandt, J., 2004: "Air quality modelling", ACCENT-Transport & Transformation of Pollutants (T&TP) Barnsdale Hall Hotel, Rutland Water, UK, 18<sup>th</sup> to 21<sup>st</sup> October 2004. Invited talk.
  83. Brandt, J. and F. Palmgren, 2005: "Integrated modelling and monitoring for use in forecasting". Workshop on real time air pollution data exchange and forecast in Europe, EEA, Copenhagen, 7-8 April 2005.
  84. Brandt, J., J. H. Christensen, L. M. Frohn, C. Geels, K. M. Hansen, G. B. Hedegaard, and C. A. Skjøth, 2005: "The Danish Eulerian Hemispheric Model - new developments, applications and validations". ACCENT/GLOREAM Workshop Apeldoorn, Modern developments in tropospheric chemical transport modelling. The Netherlands, 7-9 September, 2005.

85. Brandt, J., J. Christensen, L. M. Frohn, R. Berkowicz, C. A. Skjøth, C. Geels, K. M. Hansen, J. Frydendall, G. B. Hedegaard, O. Hertel, S. S. Jensen, M. Hvidberg, M. Ketzel, H. R. Olesen, P. Løfstrøm, and Z. Zlatev, 2005: " THOR – an operational and integrated model system for air pollution forecasting and management from global to local scale", First ACCENT Symposium, Urbino, Italy, 12<sup>th</sup>-16<sup>th</sup> September 2005.
86. Brandt, J. C. A. Skjøth, J. H. Christensen, L. M. Frohn and C. Geels, 2005: "High-resolution weather forecasting using dynamical downscaling". International Conference on Innovation, advances and implementation of flood forecasting technology, 17-19 October 2005, Tromsø, Norway.
87. Brandt, J.: "The Thor integrated air pollution forecasting and management system", At the ACCENT/WMO Expert Workshop in support of IGACO, Geneva, 24-26 April, 2006.
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### **Co-author on Presentations at conferences, workshops and seminars**

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10. Zorana Jovanovic Andersen,<sup>1</sup> Jeanette Thering Jørgensen,<sup>1</sup> Amar Mehta,<sup>1</sup> Theis Lange,<sup>1</sup> Rudi Westendorp,<sup>1</sup> Tom Cole-Hunter,<sup>1</sup> Shadi Azam,<sup>1</sup> Jørgen Brandt,<sup>2</sup> Thea Kølsher Fisher,<sup>3</sup> Steffen Loft<sup>1</sup>, Gerard Hoek,<sup>4</sup> Youn-Hee Lim: Long-term exposure to air pollution and COVID-19 mortality and morbidity in Denmark: who is most susceptible? (AIRCODEN). HEI conference, May 2022.
11. Alto, T., Bousquet, P., Brandt, J., Chevillard, A., Christensen, J.H., Frohn, L.M., Geels, C., Gloor, M., Gusti, M., Heimann, M., Houwelling, S., Karstens, U., Koerner, S., Peylin, P., Roedenbeck, C., Vermeulen, A. & Denning, A.S.: Intercomparison of Simulated Transport of CO<sub>2</sub> and Rn over Europe with Mesoscale Models: a Concerted Action within the AEROCARB Project. AGU: 2002 Spring Meeting, Washington, DC, USA, 28-31 May 2002.
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