

Curriculum Vitae for Klaus Mosegaard

Biographical information

Born 1 August 1955, Sevel, Denmark.
Citizenship: Danish

Scientific interests

Theory: Inverse problems, geostatistics, numerical analysis, optimization.

Applications: oil/gas exploration, seismology, hydrology, geomagnetism, planetary physics.

University degrees

Dr. Scient., Copenhagen University, 2006.
Ph.D., Niels Bohr Institute, Copenhagen University, 1987.
M.Sc., Niels Bohr Institute, Copenhagen University, 1982.

Awards and fellowships

2001 Fellow, Institute of Physics.
2000 Teaching Award, Faculty of Science, University of Copenhagen.
1996 Pink Fellowship, BIRPS, Bullard Laboratories, University of Cambridge, UK.
1996 Associate Member, Fitzwilliam College, Cambridge, UK.
1994 The Ole Rømer Award for outstanding research in geophysics, awarded by The Royal Danish Academy of Sciences and Letters.
1988 Postdoctoral Fellowship in Geophysics IPGP Paris.

Ph.D.- and PostDoc advisors

Prof. Albert Tarantola, Institut de Physique du Globe de Paris (IPGP) (postdoctoral advisor).
Prof. P.V. Sharma, University of Copenhagen (Ph.D. advisor).

Positions held

2009-	Niels Bohr Institute, University of Copenhagen.	Professor
1993-2009	Niels Bohr Institute, University of Copenhagen.	Assoc. Professor (Lektor)
1990-1993	Geophysical Institute, University of Copenhagen.	Assist. Professor (Lektor)
1988	Institut de Physique du Globe de Paris.	Postdoctoral fellow
1986-1990	Geophysical Institute, University of Copenhagen.	Assist. Professor (Adjunkt)
1984-1986	Geophysical Institute, University of Copenhagen.	Research Assistant (Kandidatstipendiat)
1981-1984	Maersk Oil and Gas A/S (DANBOR), Copenhagen.	Exploration Geophysicist

Visiting Positions

1997 Visiting Scientist, Bullard Laboratories, University of Cambridge, UK
1996 Visiting Scientist, Bullard Laboratories, University of Cambridge, UK
1992 Visiting Professor, Institut de Physique du Globe de Paris

Number of publications and students with completed M.Sc. and Ph. D. degrees

Total number of publications:	151
Total number of papers, book chapters and dissertations:	89
Number of publications in peer-reviewed journals:	45
Candidate production the last 5 years:	15
Ph.D. production the last 5 years:	4

Important References and Citations

1. In a citation survey of 45 of the worlds leading researchers in inverse problems, based on Science Citation Index for the period 1994 - 2003, Klaus Mosegaard was ranked in the top ten. Klaus Mosegaard's most cited paper in that period was the most cited for the whole group.
2. The paper: *Mosegaard, K., and Sambridge, M., 2002: Monte Carlo analysis of inverse problems: Inverse Problems 18, pp. R29-R54* was the 3rd most downloaded paper from the website of the leading journal *Inverse Problems* in 2002.

Recent invited talks

- DTU, Copenhagen, 1. July 2009, EMMDS-2009 conference.
- UCSD, San Diego, 18. September 2008.
- CIG Workshop on Mathematical and Computational Issues in the Solid Earth Geosciences, Santa Fe, New Mexico, 15.-17. September 2008.
- DTU Copenhagen, 17. June 2008
- ETH Zürich, 9. May 2008
- ETH Zürich, 8. May 2008

Industry Consulting

2000	Maersk Oil and Gas A/S and CORE A/S	Research project
2000-2002	Maersk Oil and Gas A/S and CORE A/S	Geophysical R&D consulting
1994-1997	COWIconsult, AGIP	Research project
1990-1991	COWIconsult	Geophysical R&D consulting
1988-1989	ELF Research, Pau (France)	Research project
1987-1989	Ødegaard A/S (now Schlumberger)	Geophysical R&D consulting

Industrial Software

Klaus Mosegaard is an author/co-author of software developed for Maersk Oil and Gas A/S (Denmark), COWIconsult (Denmark), AGIP (Italy), ELF Research (France), and Schlumberger/Ødegaard A/S (Denmark).

Editorships

2009-	Editorial Advisory Board, Central European Journal of Geosciences
1997-2004	Editorial Board, Inverse Problems
1995-1999	Associate Editor, Journal of Geophysical Research

Memberships

SIAM - Society of Industrial and Applied Mathematics
MAA - Mathematical Association of America
SPE - Society of Petroleum Engineers
IOP - Institute of Physics (Fellow)

Teaching past and present

Inverse Problems	Advanced course (4th year)
Reflection Seismology	Advanced course (4th year)
Scientific Computing	Advanced course (4th year)
Mathematics Ax	Introductory course (2nd year)
Physics of the Earth's Interior	Introductory course (2nd year)
Earth and the terrestrial planets	Introductory course (2nd year)

Administrative assignments

Since 2009	Deputy Head of Institute, Niels Bohr Institute, University of Copenhagen.
Since 2008	Chairman of the Danish National Committee for the International Lithosphere Programme.
Since 2005	Responsible for the communication at the Niels Bohr Institute, University of Copenhagen.
2007-2009	Deputy head of the Earth and Planetary Physics Group, Niels Bohr Institute, Univ. of Copenhagen
2005-2007	Head of the Theoretical Geophysics and Planetary Physics Group, Niels Bohr Institute, Univ. of Copenhagen
2002-2007	Board member, Niels Bohr Institute, University of Copenhagen
2000-2002	Board member, Department of Geophysics, Niels Bohr Institute AFG, Univ. of Copenhagen
2000-2002	Deputy head, Department of Geophysics, Niels Bohr Institute AFG, University of Copenhagen
1997-1999	Chairman of the Research Committee, Niels Bohr Institute AFG, University of Copenhagen
1995-1996	Member of the Research Committee, Niels Bohr Institute AFG, University of Copenhagen