

CURRICULUM VITAE

Bjarne Andresen

Professor of physics emeritus

Niels Bohr Institute

University of Copenhagen

Current Position

2020 – date Emeritus at The Niels Bohr Institute, University of Copenhagen.
1978 – 2020 Professor (lektor) at Physics Laboratory 2 (from January 2005: The Niels Bohr Institute), University of Copenhagen.

Highest Qualification

1984 Dr. scient. (senior doctor) from University of Copenhagen.
1974 Ph. D. in theoretical chemistry from Chemistry Laboratory 3, University of Copenhagen.

Elected Appointments

1979 – 1981 President of the Section for Theoretical Chemistry of the Danish Chemical Society.
1980 – 2020 Employees' spokesman (tillidsmand) at all levels of the University of Copenhagen.
1988 – 1991 Member of the executive council of the Danish Union of University Teachers.
1988 – 1991 Deputy director of Physics Laboratory, University of Copenhagen.
1991 – 1993 Executive secretary of the Danish Physical Society.
1992 – 1997 Vice chairman of the Danish Forum for University Policy and Planning.
1993 – 1998 Member of the board of directors of the Danish Association of Masters and Ph.D.s (Dansk Magisterforening).
1996 – date Member of the Danish Academy of Natural Sciences.
1997 – 2000 Chairman of the committee on research and education of the Danish Confederation of Professional Associations (AC).
1997 – 2008 Chairman of the Danish Forum for University Policy and Planning.
2006 – 2009 Member of the board of directors of MP pension, the largest academic pension fund in Denmark.
2007 – 2009 Vice chairman of MP pension.
2019 – date Treasurer of the Danish Academy of Natural Sciences.

Previous Academic Appointments

1975 – 1976 Guest at The University of Chicago.
1983 – 1984 Visiting professor at Stanford University and San Diego State University.
2001 Visiting professor at San Diego State University.
2009 Visiting professor at University of New South Wales at ADFA, Canberra.
2012 Visiting professor at San Diego State University.
2017 Visiting professor at Nagpur University, India.

Outward Academic Activities

Principal organizer of several international conferences, including Gordon Research and UNESCO.

Principal organizer of JETC 10 (Joint European Thermodynamics Conference), Copenhagen 22–24 June 2009.

Member of The European Thermodynamics Network (ETN) coordinated by Wolfgang Muschik, Technical University of Berlin, funded by EU.

Member of The Thermodynamics of Energy Conversion Network (Carnet) coordinated by Alexis De Vos, Gent, funded by EU.

Coordinator of INTAS grants Limits on Performance of Irreversible Thermodynamic Processes, with Program Systems Institute, Russia, funded by EU.

Research interests

- Quantum thermodynamic optimization of harmonic and anharmonic oscillators.
- Interplay of finite-time thermodynamics with global optimization theory, in particular using thermodynamic geometry.
- Thermodynamics at extreme time and length scales.