

# Resume – Hendrik W. Broer

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## Address

Prof. dr H.W. Broer  
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## Professional Status

Professor of *Dynamical Systems*, University of Groningen  
Member *Royal Netherlands Academy of Arts and Sciences*  
(KNAW), Afdeling Natuurkunde  
Scientific Director *Johann Bernoulli Institute*  
*for Mathematics and Computer Science*  
Head of Group *Dynamical Systems & Mathematical Physics*  
Chairman *Johann Bernoullistichting voor de Wiskunde*

## Education

PhD 1979 Mathematics and Natural Sciences, University of Groningen  
M.Sc. 1974 Mathematics University of Groningen  
B.Sc. 1971 Mathematics, Physics and Astronomy University of Groningen  
1967 Secondary School (HBS-B), Meppel, The Netherlands

## Professional Interests

Nonlinear Dynamical Systems:  
Bifurcations, resonance, quasi-periodicity, chaos  
Geometry, Mathematical Analysis  
Mathematical Physics, Earth and Life Sciences

## Fluency

Dutch, English, French, German

## Professional Societies

Koninklijk Wiskundig Genootschap (KWG)  
American Mathematical Society (AMS)  
Mathematical Association of America (MAA)  
Society for Industrial and Applied Mathematics (SIAM)

## Professional Activities

### Present

Editor in Chief *Indagationes Mathematicæ* (under the auspices of KNAW)  
Editor *Discrete and Continuous Dynamical Systems, Series S*  
Editor *MIHMI* (J. Indonesian Mathematical Society)  
Editor *Epsilon-Uitgaven*, Utrecht  
Member Program Committee *Nationale Wiskunde Dagen*,  
Noordwijkerhout (annual meeting of secondary school teachers)

### Past

Managing Director NWO-cluster  
*Nonlinear Dynamics of Natural Systems* (NDNS+) 2005-2011  
Chairman *Koninklijk Wiskundig Genootschap* (KWG) 2007–2009  
Chairman Chamber of Mathematics VSNU (Cooperation of Dutch Universities) 2001–2006  
Scientific Secretary FOM Programme *Mathematical Physics* 2003–2007  
Coordinator KNAW–EPAM Project *Dynamical Systems* (with ITB Bandung), 2000–2006  
Member Board Mathematics *Lorentz Center* Leiden University 2005–2009  
Member RTN European Network *Mechanics and Symmetry in Europe* (MASIE) 1997–2006  
Division Editor *Journal of Mathematical Analysis and Applications*, division *Ordinary Differential Equations and Dynamical Systems* 2005–2010  
Member ministerial (OCW) committee *Commissie Toekomst Wiskundeonderwijs* (cTWO) and steering group *Natuur, Leven en Technologie* (NLT) 2006-2011  
Chairman board *Mathematics Research Institute* (MRI) 2006-2011

## Organization of Conferences

Member Organizing Committee *Global Analysis of Dynamical Systems*, Lorentz Center Leiden 2001  
Member Program Committee workshop *Hamiltonian Dynamical Systems*, Imperial College London, February 2002

Member Organizing Committee *Equadiff*, University of Hasselt 2003  
Member Organizing Committee *Nonlinear Dynamics, Ergodic Theory and Renormalization*, Lorentz Center Leiden, 2004  
Member Organizing Committee *Mathematics of Life Sciences*, Rijksuniversiteit Groningen, 2005  
Member Organizing Committee *European Nonlinear Oscillator Conference (ENOC)*, TU–Eindhoven 2005  
Member Organizing Committee *Dynamics of Nonlinear Waves*, Rijksuniversiteit Groningen, 2006  
Member Organizing Committee *Mathematics of Earth Sciences*, Rijksuniversiteit Groningen, 2006  
Member Organizing Committee *The Chaotic and Ergodic Properties of ‘Real’ Hamiltonian Systems*, CRM/ISM Montreal 2007  
Member Organizing Committee *KAM Theory and its Applications*, Lorentz Center Leiden, 2008  
Scientific Advisor *New Directions in Dynamical Systems*, Lorentz Center Leiden, 2009  
Coordinator Special Session AMS Southeast Sectional Meeting *Dynamical Systems*, Boca Raton, Florida 2009  
Member Organizing Committee *Nonlinear Dynamics of Natural Systems*, workshop Eurandom TU-Eindhoven 2010  
Coordinator Special Session 8th AIMS International Conference on Dynamical Systems, Differential Equations and Applications *Complexity and Geometry of Larger Scale Dynamics*, Dresden 2010  
Member Organizing Committee *Coherent Structures in Dynamical Systems*, Lorentz Center Leiden, 2011  
Member Organizing Committee *Resonance and Synchronization*, Lorentz Center Leiden, 2012

**For detailed information** about research, teaching, etc., including a complete CV and full list of publications

see <http://www.math.rug.nl/~broer/>