

Curriculum Vitae – Hans G. Kaper

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Coordinates

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Education

Ph.D. 1965 Mathematics and Physical Sciences (cum laude)
Rijksuniversiteit Groningen, Netherlands
M.S. 1960 Mathematics and Physical Sciences
Rijksuniversiteit Groningen, Netherlands
B.S. 1957 Mathematics (minors: Physics and Astronomy)
Rijksuniversiteit Groningen, Netherlands

Professional Interests

Applied mathematics, mathematical analysis, scientific computing
Nonlinear differential equations, bifurcation phenomena
Dynamics of complex systems, climate dynamics
Sound synthesis and scientific sonification

Current Positions

Co-director, Mathematics and Climate Research Network (<http://www.mathclimate.org/>)
Adjunct Professor, Dept. of Mathematics and Statistics, Georgetown University, Washington, DC
Adjunct Professor, School of Music, University of Illinois at Urbana–Champaign
Sr. Mathematician Emeritus, Argonne National Laboratory, Argonne, Illinois

Employment History

National Science Foundation	Program Director, 2001–'04, 2005–'08
Argonne National Laboratory	Senior Mathematician, 1982–2008 MCS Division Director, 1987–'91 Mathematician, 1969–'82
Rijksuniversiteit Groningen	Associate Professor, 1967–'69 Assistant Professor, 1965–'67

Visiting and Temporary Positions

Visiting Professor	Université Bordeaux 1, Bordeaux, France, 2000
Visiting Professor	Université Toulouse I, Toulouse, France, 1995
Visiting Professor	Université Claude Bernard, Lyon, France, 1993
Adjunct Professor	Northern Illinois University, 1982–92
Visiting Professor	Northwestern University, 1978–80, 1984–85
Visiting Professor	Universität Wien, Vienna, Austria, 1976–77
Visiting Professor	Universiteit van Amsterdam, 1976–77
Sr. Scientific Officer	Mathematisch Centrum, Amsterdam, 1976–77
Research Associate	Stanford University, 1966–67
Research Assistant	Rijksuniversiteit Groningen, 1962–65
Research Assistant	CEA, Fontenay-aux-Roses, France, 1961–62
Teaching Assistant	Rijksuniversiteit Groningen, 1958–61
Summer Employee	Philips, Eindhoven, 1959

Honors

Fellow, Society for Industrial and Applied Mathematics, Class of 2009
Corresponding Member, Koninklijke Nederlandse Academie van
Wetenschappen (Royal Netherlands Academy of Arts and Sciences)
NATO Science Fellowship, 1966–'67
EURATOM Research Fellowship, 1961

Languages

Fluent in Dutch, English, French, German

Professional Societies

Society for Industrial and Applied Mathematics (SIAM)
American Mathematical Society (AMS)
Koninklijk Wiskundig Genootschap (Amsterdam)
International Computer Music Association (ICMA)
International Community for Auditory Display (ICAD)

Professional Activities

Associate Editor	Integral Equations and Operator Theory Transport Theory and Statistical Physics J. of Engineering Mathematics
Editor-at-Large	Applied Mathematics, Marcel Dekker, Inc.
Reviewer	NSF, DOE
Referee	Various professional journals
Reviewer	Mathematical Reviews, 1974–'84
Visiting Lecturer	SIAM, 1978–'84
Consultant	Reactor Centrum Nederland, 1967–'69

Selected Synergistic Activities

- SIAM Committee on Science Policy, 2011–present
- SIAM Fellows Selection Committee, 2009–'10
- SIAM Committee on Committees, 2007–'10
- DMS Management Team for Mathematical Sciences Research Institutes; National Science Foundation, 2005–'08
- DMS Management Team for Focused Research Groups (FRG); National Science Foundation, 2005–'08
- OECD Working Group for Mathematics in Industry; Global Science Forum, 2007–'08
- MPS/ENG Working Group for Complex Systems; National Science Foundation, 2008
- MPS Working Group for Computational Science; National Science Foundation, 2001–'08
- NSF Management Team for Information and Technology Research (ITR); National Science Foundation, 2004–'05
- Director, *Arts at Argonne*; Argonne, 1988–2005
- Chair, Review Committee for Mathematics Research in the Netherlands; August 2002
- Committee of Visitors, Division of Mathematical Sciences, National Science Foundation; February 2001
- Co-chair, Organizing Committee Theory Institute *Dimension Reduction for Chemical Kinetics*; Argonne, June 2000
- Director, Mathematics and Computer Science Division, Argonne National Laboratory; 1987–'91
- Member, Executive Committee *NSF S&T Center for Research in Parallel Computing (CRPC)*, 1987–'91