

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
Sound synthesis and scientific sonification

Current Positions

Sr. Mathematician, Argonne National Laboratory (retired)
Adjunct Professor, School of Music, University of Illinois at Urbana–Champaign

Employment History

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

Program Director	National Science Foundation, 2001–'04, 2005–'08
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

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

American Mathematical Society (AMS)
Society for Industrial and Applied Mathematics (SIAM)
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

- Management Team *Mathematical Sciences Research Institutes*; Division of Mathematical Sciences, National Science Foundation, 2005–'08
- Management Team *Focused Research Groups (FRG)*; Division of Mathematical Sciences, National Science Foundation, 2005–'08
- Working Group *Mathematics in Industry*; OECD Global Science Forum, 2007–'08
- Working Group *Complex Systems*; Directorates for Engineering and Mathematical and Physical Sciences, National Science Foundation, 2008
- Working Group *Computational Science*; Directorate for Mathematical and Physical Sciences, National Science Foundation, 2001–'08
- Management Team *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
- Reviewer, Presenters Development Program, Illinois Arts Council; 1998–'99
- Member, Physical Research Senior Advisory Group; Argonne, 1993–'94
- Director, NATO Advanced Research Workshop *Asymptotic-induced Numerical Methods for Partial Differential Equations, Critical Parameters, and Domain Decomposition*; Beaune, France, May 1992
- 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