Loomis Laboratory of Physics University of Illinois at Urbana-Champaign 1110 West Green Street Urbana IL 61801-3080 USA Phone: 217-333-8027 Fax: 217-333-9819 (not private)

Nigel Goldenfeld

Personal Date of birth: 1 May, 1957

Information Citizenship: USA

Present Position Swanlund Endowed Chair and Professor of Physics, University of Illinois at Urbana-

Champaign

Awards Received Elected to National Academy of Sciences (2010)

Elected to American Academy of Arts and Sciences (2010)

Rosenqvist Lecturer, University of Oslo (2010) Swanlund Endowed Chair (2007 - present)

Norman Hascoe Distinguished Lecturer, University of Connecticut (2008)

Arthur O. Williams Lecturer, Brown University (2008)

A.E. Nordsieck Award for Excellence in Graduate Teaching (2001)

APS Centennial Speaker (1999)

Elected Fellow of the American Physical Society (1995) National Science Foundation Creativity Award (1997) University Scholar of the University of Illinois (1994-1997)

Alfred P. Sloan Foundation Fellow (1987-1991) Xerox Award for Junior Faculty Research (1991)

Distinguished Visiting Lecturer, McMaster University (1989) Beckman Fellow at the Center for Advanced Study, Urbana (1988)

Exhibitioner, Pembroke College (1976)

Numerous appearances on the University of Illinois Incomplete List of Teachers Ranked Excellent

Professional Experience

2007-present Swanlund Endowed Chair

2005 - present Leader, Biocomplexity Theme, Institute for Genomic Biology

2003 Senior Visitor, DAMTP, University of Cambridge

1995 – present Professor of Physics, University of Illinois

1996 Founder, NumeriX LLC

1991 – 1995 Associate Professor, University of Illinois
1985 – 1991 Assistant Professor, University of Illinois
1988 Visiting Scientist, Stanford University

1982 – 1985 Postdoc, Insititute for Theoretical Physics, Santa Barbara
1979 – 1982 Graduate student, Cavendish Laboratory, Cambridge
1976 – 1979 Undergraduate, Pembroke College, Cambridge

1976 Research Assistant, National Physical Laboratory, England

Research Interests Dynamics of pattern forming systems, multi-scale modeling, phase transitions

kinetics, front propagation, turbulence, renormalization group theory for differential equations and singular perturbations, critical phenomena, disordered systems, high temperature superconductivity, polymers and liquid crystals, computational finance,

biocomplexity

Research continually funded by the National Science Foundation since 1985, and by NASA and the US Department of Energy.

Additional professional activities

Editorial Board of The Philosophical Transactions of the Royal Society (2009-present)

Member, APS Oliver E. Buckley Prize Commitee (2009)

Editorial Board of Communications in Applied Mathematics and Computational Science (2008-present)

Reviewer, New directions for understanding systemic risk. (Fed Res. NY/NAS report, 2007)

Organiser, Program on Pattern Formation in Physics and Biology, KITP UC Santa Barbara, 2003.

International Advisory Committee, Renormalization Group 2000

Chair, APS Lars Onsager Prize Committee (1998)

Member, APS Lars Onsager Prize Committee (1997)

Editorial Board of International Journal of Theoretical and Applied Finance (1996-present)

International Advisory Committee, Renormalization Group 1996 APS Division of Fluid Dynamics Program Committee (1995) US Dept. of Energy Applied Mathematics Panel (1992)

Reviewer for Science, Nature, Physical Review Letters and other journals; National Science Foundation, Department of Energy, US-Israel Binational Science Foundation and other government and private grant-awarding agencies.

14 students supervised to Ph.D, 17 postdocs

Education

1979 – 1982 University of Cambridge, Cambridge, UK Ph.D Theoretical Physics

- · Advisor: Prof. Sir Sam Edwards, FRS
- Title: Statistical Mechanics of Polymers in the Solid State

1976 – 1979 University of Cambridge, Cambridge, UK B.A. (Cantab) Natural Sciences

Specialising in theoretical physics

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