

Curriculum vitae

Personal Information

Family, first names: Kelly, Paul
Date, place of birth: 8 January 1955 in Dublin, Ireland
Nationality: Irish
Marital Status: Married to Andrea Barbara Dietz with four children:
Kevin (1988); Una (1991); Liam (1992); Niamh (1996)
ResearcherID: G-4210-2010
URL for web site: cms.tnw.utwente.nl



Education

1972–1976: B.Sc. degree course at University College Dublin, Ireland (First class honours)
Major Subject: Experimental Physics
Minor Subject: Mathematical Physics
1977–1980: Research for a Ph.D degree at the European Institute for Transuranium Elements,
Karlsruhe, Germany with Prof. M.S.S. Brooks
Ph.D. degree awarded by Council for National Academic Awards, United Kingdom
Title of thesis: *Electronic Structure of the Actinide Dioxides*

Professional Experience

03/1980–10/1985: Postdoctoral Research Fellow at the Max-Planck-Institut für Festkörperforschung,
Stuttgart, Germany, working with Prof. O.K. Andersen
02/1983–01/1984: Visiting scientist at IBM Thomas J. Watson Research Center,
Yorktown Heights, New York, USA with Dr. S.T. Pantelides
06/1984–09/1984: Yorktown Heights, New York, USA with Dr. S.T. Pantelides
11/1985–09/1997: Staff scientist at Philips Research Laboratories, Eindhoven, The Netherlands
10/1991–12/1993: Head of Theoretical Physics Group at Philips Research Laboratories
10/1997—present: Full professor of Computational Materials Science at the Faculty of Science &
Technology, University of Twente, The Netherlands

Fellowships and Awards

1972: University Scholarship to University College Dublin (UCD), Ireland
1973: College Scholarship and Prizes in Mathematics and Mathematical Physics, UCD
1974: Prize in Mathematical Physics, UCD, Ireland

Supervision of Graduate Students and Postdoctoral Fellows

1991–1997: 1 Postdoc; 3 PhD students; 2 Master Students while at
Philips Research Laboratories Eindhoven, the Netherlands
1997–present: 10 Postdocs; 13 PhD students; 11 Master Students since working at the
Faculty of Science & Technology, University of Twente, Enschede, the Netherlands

Teaching Activities

1997–present: Applied Quantum Mechanics (3rd year of B.Sc. in Applied Physics, 5 ECTS)
Theoretical Solid State Physics (1st year of M.Sc. in Applied Physics, 5 ECTS)
Electronic Structure Theory (1st year of M.Sc. in Applied Physics, 5 ECTS) at
Faculty of Science & Technology, University of Twente, Enschede, the Netherlands

Organisation of Scientific Meetings

22-26 Aug 2000: Member of the Program Committee for "Psi-k 2000" Conference in Schwäbisch
Gmünd
14-18 Mar 2003: Organizer of a joint Psi-k & NEDO workshop on "Spin Mesoscopies" in Enschede,
the Netherlands
17-21 Sep 2005: Member of the Program Committee for "Psi-k 2005" Conference in Schwäbisch
Gmünd and organizer of a Symposium on Quantum Spin Transport
04-08 Dec 2006: Co-organizer of a CECAM workshop on "Quantum Transport and non-adiabatic
electron evolution from first principles approaches" in Lyon
12-16 Sep 2010: Member of the Program Committee for "Psi-k 2010" Conference in Berlin
06-10 Sep 2015: Member of the Program Committee for "Psi-k 2015" Conference in San Sebastian-
Donostia

Institutional Responsibilities

- 1997– present: Head of Computational Materials Science group, Faculty of Science & Technology, University of Twente, the Netherlands
- 2009– present: Member of the Exam Commissions for Applied Physics degrees (B.Sc. and M.Sc.)
- 1997–present: Chairman and Member of numerous PhD committees

Commissions Of Trust

- 1993 – 1994 Member of the Economics Ministry "Innovation Oriented Program" advisory committee to stimulate Computational Materials Science in the Netherlands.
- 1994 – 1998 Dutch coordinator of EU 4th Framework Training and Mobility of Researchers network on "Interface Magnetism".
- 1998 – 2002 Scientific Advisor to Philips Research Laboratories in Eindhoven.
- 1998 – 2002 Member of the FOM (Dutch Physics funding agency) steering committee on "Condensed Matter Physics".
- 1998 – 2002 Dutch Coordinator of the European Science Foundation Network "Electronic Structure Calculations for Elucidating the Complex Atomistic Behaviour of Solids and Surfaces (STRUC Psi-k)".
- 2000 – 2004 Dutch Coordinator of EU 5th Framework Research Training Network on "Computational MagnetoElectronics".
- 2003 – 2008 Dutch Coordinator of the European Science Foundation Network "Towards Atomistic Materials Design (Psi-k)".
- 2009 – present Dutch Coordinator of the European Science Foundation Network "Psi-k - Advanced Concepts in ab-initio Simulations of Materials".
- 2008 – present Member of the Coordination Committee for the "Complex Magnetism and Multiferroics" and "Nanomagnetism and Spintronics" working groups for the Psi-k Network's "MagnetoElectronics" working group.
- 2002 – present Member of the National Computer Facilities (NCF) commission (WGS) responsible for allocating supercomputer time in the Netherlands.
- 1996,2003,2010 Member of the evaluation jury for the FOM Open Program (Beleidsruimte/Projectruimte).
- 2013 – present Member of the Editorial Board of Physical Review B.
- Jan 2013 Member of the DFG Evaluation Panel for SPP Priority Program "Topological Insulators: Materials - Fundamental Properties - Devices".
- 2014 Member of Vidi Selection Committee for Dutch Science Foundation (NWO/FOM).
- 2014 Member of the DFG Consultation Panel for Collaborative Research Centre (SFB) "Topological and Correlated Electronics at Surfaces and Interfaces".

Refereeing for Physical Review Letters, Physical Review B, Europhysics Letters, Journal of Physics: Condensed Matter, Journal of Chemical Physics, Nature (Physics, Materials, Nanotechnology), Science, etc.

Reviewing of grant proposals from the EPSRC (UK), NSF (USA), SFI (IRL), EU, as well as FOM, NCF, and STW (all NL).

Memberships Of Scientific Societies

Dutch (NNV), European (EPS), American (APS) Physical Societies

Major Collaborations

G.E.W. Bauer (TU Delft, NL and Sendai, Japan); A. Brataas (NTNU, Norway); K. Xia (BNU, China); Z. Yuan and Y. Liu (Mainz, Germany)