CURRICULUM VITAE

of Kevin Dermot O'Grady

A GENERAL

Full name:	Kevin Dermot O'Grady
Department:	Physics
Date of appointment to the University	April 2000
Present position	Prof of Experimental Physics/Founding Director Institute for Materials Research
Previous Posts	
1972-75	Dept. of Health and Social Security
1975-81	BSc, PhD UCNW Bangor
1981-82	Research Assistant to Drs J Popplewell and S W Charles, UCNW, Bangor
1982-84	Temporary Lecturer in Dept. of Physics, UCNW, Bangor
1984-85	Lecturer in Physics, Loughborough University of Technology
1985-92	Lecturer in Physics, University College of North Wales, Bangor
1992-94	Senior Lecturer in Physics, School of Electronic Engineering and Computer Systems, University of Wales, Bangor
1994 to 1996	Reader in Physics, School of Electronic Engineering and Computer Systems, University of Wales, Bangor.
1996 to 2000	Professor of Physics (Personal Chair) School of Electronic Engineering and Computer Systems, University of Wales, Bangor.
2000 to date	Professor of Experimental Physics University of York
2005 to 2007	Founding Director York-JEOL Centre
Qualifications	BSc, PhD, F.Inst.P, FIEEE

CURRENT POSITION AND RESPONSIBILITIES

Since April 2000 I have been Professor of Experimental Physics in the Department of Physics at the University of York. In this capacity I lead the Magnetics Materials Research Group. The group currently comprises a Reader and a Lecturer with 10 research students and a post doctoral fellow.

My research is concerned with the study of thin film and particulate magnetic materials. These types of materials have wide application in information storage and are of nanometric dimensions. Accordingly most of my research is carried out in close cooperation with industry and we have current research support from Seagate Technology (2 projects), Western Digital Incorporated (Freemont, California) and JEOL UK Ltd. We have a new project in collaboration with Seagate Media Research of Fremont CA with a value of $280,000. Throughout my career I have always undertaken my research in collaboration with industry and have supervised over forty grants and contracts, mainly associated with partial support for postgraduate students. I was the associate editor of J.Phys.D:Appl.Phys. from 1995 to 2012.

The York magnetism group is prominent within the UK. From 1998-2001 I was the Coordinator of the EPSRC Advanced Magnetism Programme. During this period a new funding mechanism to allow for collaboration with industry was developed. This mechanism is known as The Seagate Plan and in the first 3 years resulted in a cash injection to more than 20 UK universities. The Seagate Plan remains in operation to this day.

My group maintains a strong profile within the European Union and we have participated in four STREP type projects over the years. From 2001 to 2005 my group coordinated the Research Training Network "NEXBIAS" which was cited by the EU as one of 5 projects exhibiting best practice out of a total of 180 such networks.

My work is also well respected internationally and I during 2007/8 I was the Past President of the IEEE Magnetics Society having been President in 2005 and 2006. Whilst President I was elected to the Finance Committee and appointed as the Chair of the IEEE Transnational Committee thereby participating in the management of the largest professional organisation in the world. Whilst President-elect of the Magnetics Society I re-drafted the Society constitution and subsequently as President implemented a restructuring of the Society to improve representation of our international membership, which is no longer US dominated, and also to provide improved representation for younger people and those from minorities. The Distinguished Lecturer and Chapter Programmes were reorganised resulting in an increase in Chapters from 17 to 35.

As part of my work with the IEEE Magnetics Society I was heavily involved in the organisation of the Intermag and Magnetism and Magnetic Materials conferences. These are the major conferences in the field. I was Programme Co-Chair for Intermag in 1996, 2002, 2008 and a member of numerous programme committees. In 2010 I was the General Chair of the Joint MMM-Intermag Conference held in Washington DC which was attended by almost 2000 participants. I am a member of numerous small conferences held in Europe and Asia. In 2011 I was elevated to a Fellow of IEEE, a distinction held by less than 3% of the membership.

The nature of my research is associated with fundamental science that underpins the technology of magnetic information storage. As such whilst it is not the direct intention of the research, inevitably intellectual property can be developed. In my career I am responsible for 2 patents, filed some years

ago, and more recently I filed 2 further patents which are now owned by the Bank of England. Details of these patents may not be revealed as they are covered by a Ministry of Defence D-Notice. A further patent has been filed recently.

In 2001 I undertook a project as an Expert Witness representing Sony Electronics Ltd of the United States and Dowa Electronic Materials Ltd of Japan in a major patent dispute heard in the District Federal Court in Wilmington, Delaware. In this instance I was the sole technical expert for both corporations in a case valued at $237M, that was successfully defended.

From 2004-2006 I was asked by the Vice Chancellor of the University of York to take responsibility for the development of a centre for electron microscopy which was being developed using SRIF funds. This project grew rapidly and attracted sponsorship from JEOL Ltd, the largest manufactures of electron microscopes in the world, and consequently from our Regional Development Agency, Yorkshire Forward, to the tune of £2.5M. The University provided matching funding for equipment and a new building was also modified to meet the specialised needs of an electron microscopy centre. The University has now established the York-JEOL Nanocentre which is a world leading facility for electron microscopy and has resulted in the development of a new research area within both the Departments of Physics and Chemistry. The funding package assembled for the establishment of the York-JEOL Centre was highly novel and is now being replicated by a number of other universities in association with their Regional Development Agencies.

In 2003-4 I served as a member of the DTI Basic Technologies Strategic Advisory group and was responsible in part for the development of the DTI LINK programme in information storage and displays. Through this programme I secured funding in collaboration with a small company called Plasma Quest for a major project with a value of about £1M for the development of sputter deposition tools. Plasma Quest Ltd is a small company which was spun out from Edwards High Vacuum Ltd and I was instrumental in its founding and original organisation in collaboration with Prof M J Thwaites. In 1991 I set up my own private company, Liquids Research Ltd, which has traded successfully for the last 20 years. This company manufactures magnetic liquids for engineering and other applications. We employ 7 people.

Within the academic environment I have served on numerous university committees associated with safety, staffing etc and most recently have collaborated with the International Office here at York in establishing cooperation agreements with a number of universities, most notably Tohoku University in Japan to which I have strong research links. I am a highly experienced teacher having taught almost every discipline in Physics at first year level and also having taught Electronic Engineering for 12 years whilst based at the University of Wales in Bangor. I have also taught commercial aspects of engineering, in particularly delivering lecture courses on small business development and management.

RESEARCH

In my group it is the tradition that almost all work involves post-graduate students and involves collaboration with other universities and often industry who supply materials for study. Industrial scientists are routinely co-authored. My work involves detailed studies of magnetisation processes. The titles of work will indicate that the majority of the work was designed and driven by me but generally all measurements were made by others, mainly students. This is always the case when my name appears as the final author.

Prior to 2000 my work focussed on fine particles, particles for tape media and thin film disk media. Many of the techniques developed are now standard application software on most magnetic

instrumentation such as vibrating sample magnetometers. From 2000 I began a programme of work on a complex phenomenon known as exchange bias. Exchange bias was discovered in 1956 but up to 2006 there was no accepted explanation of the effect. Remarkably the phenomenon is used in all disc drive read heads with development undertaken by trial and error.

By 2009 we had developed a comprehensive theory verified by experiment, which explained this effect in sputtered thin films which are those used in devices. The work was rapidly adopted by industry such that from 2010 all read heads in the world were designed using what is now known as the York Model of Exchange Bias. We continue to receive research support from the major companies, Seagate Technology (N. Ireland) and Western Digital Corp (Fremont CA) and undertake contract work on their behalf. The work led to my being elected an IEEE Distinguished Lecturer in 2010 delivering a set piece lecture on 56 occasions in the year.

B1 Publications, compositions, patents, exhibitions and commissions

(i) Books and Reports

(1) Authored books: None

(2) Edited books: None

(3) Reports in the public domain published through the University of York: None

(4) Reports in the public domain published through the University of York on behalf of a funder: None

(5) Other reports in the public domain: 2 reports for Federal District Court, Wilmington, DE, USA

(6) **Patents**

1. A Magnetic Fluid Seal,
   K O'Grady, J Popplewell and S W Charles
   UK Pat GB 2145169A (1985)

2. Apparatus and Method for Cooling
   K O'Grady
   UK Pat. App. GB 9510650.6 (1995)

3. A Technique for Document Validation*
   K O'Grady
   UK Pat GB0519818.7 (US Patent Pending)

4. A Method for Verification of Objects*
   K O'Grady, G J Tomka and S Eaton
   UK Pat GB0519819.7 (US Patent Pending)

   * Note that these patents are covered by an MOD-D notice and cannot be viewed. Confirmation of titles is available.

(ii) Chapters in books (including other short works, such as contributions to collections of essays published in book form)

1. Remanence Curves of Fine Particle Systems I. Experimental Studies, (Invited),
*K O'Grady and R W Chantrell
in "Magnetic Properties of Fine Particles" J L Dormann and D Fiorani,
North Holland Delta Series (1992) p93-102

2. Remanence Curves of Fine Particle Systems II Theoretical Studies (Invited)
< R W Chantrell and K O'Grady
in "Magnetic Properties of Fine Particles" J L Dormann and D Fiorani,
North Holland Delta Series (1992) p103-115

3. The Peak in TRM of a Fine Particle System,
=M el Hilo, K O'Grady and R W Chantrell
in "Magnetic Properties of Fine Particles" J L Dormann and D Fiorani,
North Holland Delta Series (1992) p145-150

4. The Magnetic Properties of Fine Particles
=R W Chantrell and K O'Grady
Nato ASI Summer School, Erice, Italy (1993) in High Density Digital Recording
KHJ Buschow, GJ Long and F Grandjean
NATO ASI Series E Vol 229, p101-136

5. Activation Volumes and Magnetization Reversal in Fine Particles (Invited)
=A Lyberatos, R W Chantrell and K O'Grady
Synthesis, Properties, Applications in Nanophase Materials
GC Hadjipanayis and R W Siegel
NATO ASI Serves E Applied Sciences, V260, p653-662 (1993)

6. Magnetorheological Fluids for Automotive Applications
*K O'Grady
Presented at the Oxford-Kobe Materials Workshop on Automotive Materials,
Kobe, Japan. Sept 2002

7. Properties of Particulate Recording Media,in 'High Density Digital Recording',
=R.W. Chantrell and K. O'Grady, K.H.J Buschow, G. J. Long and F. Grandjean,
NATO ASI Series, Series E, Vol 229 p101-136 Kluwer Acad. Pub. (1993)

(iii) Articles in journals

(1) Refereed contributions:

1. The Low Temperature Magnetisation of a System of Fine Cobalt Particles,
*K. O'Grady, R.W. Chantrell, J. Popplewell and S.W. Charles,
IEEE Trans. Magn. vol. MAG-16, No 5 (1980) p.1077-1079

2. Time Dependent Magnetisation of a System of Fine Cobalt Particles,
*K. O'Grady, R.W. Chantrell, J. Popplewell and S.W. Charles,
IEEE Trans. Magn. vol. MAG-17, No 6 (1981) p.2943-2945

3. Curie-Weiss Behaviour in Ferrofluids,
*K. O'Grady, A. Bradbury, S.W. Charles, S. Menear, J. Popplewell, S.W. Charles and R.W. Chantrell
J.Magn.Magn.Mater. 31-34 (1983), p.958-960

4. Initial Susceptibility of Ferrofluids,
*K. O'Grady, J. Popplewell and S.W. Charles,
J.Magn.Magn.Mater. 39 (1983), p.56-58

5. Particle Size Analysis in Ferrofluids,
*K. O'Grady and A. Bradbury,
J.Magn.Magn.Mater. 39 (1983), p.91-94

6. The Effect of Field Induced Texture on the Properties of a Fine Particle System,
*K. O'Grady, A. Bradbury, J. Popplewell, S.W. Charles and R.W. Chantrell,
J.Magn.Magn.Mater. 49 (1985) p.106-116

7. Long Term Stability Measurements on Magnetic Fluids,
<P.R. Bissell, R.W. Chantrell, G.W.D. Spratt, P.A. Bates and K. O'Grady,
IEEE Trans. Magn. MAG-20, 5 (1984), p.1738-1740

8. High Precision Torque Hysteresis Measurements on Fine Particle Systems, D.M. Paige,
<S.R. Hoon, B.K. Tanner and K. O'Grady,
IEEE Trans. Magn. MAG-20, 5, (1984) p.1852-1854

9. Magnetic Size Determination for Interacting Fine Particle Systems,
=A Bradbury, S. Menear, K. O'Grady and R.W. Chantrell,
IEEE Trans. Magn. MAG-20, 5 (1984), p.1846-1848

10. Mixed Anisotropies in Small Ferromagnetic Particles,
*K. O'Grady, R.W. Chantrell and E.P. Wohlfarth,
IEEE Trans. Magn. MAG-20, 5, (1984), p.1849-1851

11. The Magnetic and Physical Properties of Ferrofluids (Invited Review),
*K. O'Grady
IEEE Coll. on Electro Active Fluids Digest 14 London England (1985) p.11.

12. The Isothermal Remanent Magnetisation of Fine Magnetic Particles,
=R.W. Chantrell, K. O'Grady, A. Bradbury, S.W. Charles and J. Popplewell,
J. Phys. D (Appl. Phys.) 18 (1985) p.2505-2517

13. Magnetic and Mossbauer Studies on Finely Dispersed Iron Particles,
<N. Ayoub, M.A. Kobeissi, R.W. Chantrell, K. O'Grady and J. Popplewell,
J. Phys. F: Met. Phys. 15, (1985), p.2229-2235

14. Diffraction Effects in Magnetic Fluid Composites,
=J. Popplewell, P.C. Davies, J.P. Llewellyn and K. O'Grady,
J. Phys.D (1985) L661-664

15. The Magnetic Properties of a Ferrofluid with Dipolar Interactions,
=A Bradbury, S. Menear, R.W. Chantrell and K. O'Grady,
J. de Physique, 9, (46) (1985) p.283-286

16. The Temperature Variation of the Coefficient of Magnetic Viscosity,
*K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 54-57 (1986) p.755-756

17. Microwave Properties of Ferrofluid Composites
=P.C. Davies J.Popplewell J.P. Llewellyn and K O'Grady
J. Magn.Magn.Mater. 54-57 (1986) p.761-762

18. Magnetic Filtration of Ferrofluids
*K O'Grady H.R Stewardson R.W. Chantrell D. Fletcher D. Unwin and M.R. Parker
IEEE Trans Magn MAG-22 (5) (1986) p.1134-1136

19. The Isothermal Remanent Magnetisation of Particulate Media
=R.W. Chantrell K O'Grady A Bradbury S.W. Charles and N.P. Hopkins
IEEE Trans Magn MAG23 (1) (1987) p.204-206

20. Preparation and Characterisation of Barium Hexaferrite Powders Produced by Decomposition of Organo-Metallic Complexes
=R. Chandrasekhar S.W Charles K O'Grady S. Morup and J. van Wonterghem
Adv. Ceram. Mats. 2 (1) (1987) p.65-68

21. Cobalt Ferrite Ferrofluids and Their Application to Magnetic Ink-Jet Printing
=R. Chandrasekhar, S.W. Charles and K. O'Grady,
J. Imaging Tech. 13 (2) (1987) p.55-59

22. The Effect of Particle Interactions on the Initial Susceptibility of Ferrofluids,
*M. Holmes, K. O'Grady, R.W. Chantrell and A. Bradbury,
IEEE Trans. Magn. 24 (2) (1988) p.1659-1661

23. Measurements of Persistent and Critical Currents in High-Tc Superconductors Using a Vibrating Sample Magnetometer,
*G. Ferguson, K. O'Grady, J. Popplewell, T.E. Wood, N. Kerley, A. Briggs and I.A. Denton,
J. Phys. D. Appl. Phys. 21 (1988) p.1306-1307

24. Magnetic Measurements of Critical Currents in High-Tc Superconductors,
*G. Ferguson, K. O'Grady, A. Briggs and I.A. Denton,
Cryogenics 28 (1988) p.688-690.

25. Susceptibility Peaks in a Fine Particle System,
*M. el Hilo, K. O'Grady, J. Popplewell, R.W. Chantrell and N. Ayoub,
J. de Physique C8 (12) (1988) p.1835-1836

26. Measurement of Magnetic Texture in Co-P Thin Films,
*P.E. Kelly and K. O'Grady,
J. de Physique C8 (12) (1988) p.1833-1834

27. Particle Interaction Effects in Ferrofluids,
*N.Y. Ayoub, B. Abu-Aisheh, N. Laham, M. Debabneh, J. Popplewell and K. O'Grady,
J. de Physique C8 (12) (1988) p.1841-1842

28. Magnetic Viscosity Effects in Digital Recording Media,
*S. Uren, K. O'Grady and R.W. Chantrell,
J. de Physique C8 (12) (1988) p.1927-1928

29. The Isothermal Remanence of a Fine Particle System,
*M. Walker, R.W. Chantrell, K. O'Grady and S.W. Charles,
J. de Physique C8 (12) 1988 p.1819-1820

30. Time Dependence and Rate Dependence of the Coercivity of Particulate Recording Media
*R.W. Chantrell, G.N. Coverdale and K. O'Grady,
J. Phys. D. 21 (1988) p.1469-1473

31. Remanence Curves of Cobalt Ferrite Powders Obtained by Fractionation of a Suspension through a Silical Gel Column.
<SW Charles, R Chandrasekhar, K O'Grady and M Walker
J. Appl. Phys. 64, (1988)

32. Magnetic Viscosity and Switching Field Distribution of Recording Media,
*S. Uren, M. Walker, K. O'Grady and R.W. Chantrell,
IEEE Trans. Magn. 24(2) (1988) p.1808-1810

33. Texture and Angular Dependence of Magnetic Viscosity in Digital Recording Media,
*S. Uren, K. O'Grady, R.W. Chantrell and J. Popplewell,
IEEE Trans. Magn. 25(5) (1989) p.3656-3658

34. Switching Mechanisms in Co-P Thin Films
*P.E. Kelly, K. O'Grady, P.I. Mayo and R.W. Chantrell,
IEEE Trans. Magn 25(5) (1989) p.3881-3883

35. Magnetisation Mechanisms and Magnetic Viscosity in NdFeB Alloys,
*G.B. Ferguson, K. O'Grady, J. Popplewell and R.W. Chantrell,
IEEE Trans. Magn-25 (5) (1989) p.3449-3451

36. Susceptibility Peaks in a Non-interacting Fine Particle System,
<N.Y. Ayoub, R.Y. Abdelal, R.W. Chantrell, J. Popplewell and K. O'Grady,
J.Magn.Magn.Mater. 79 (1989) p.81-87

37. Calculation of Fluctuation Field of a Fine Particle Magnetic System,
<G.N. Coverdale, R.W. Chantrell and K. O'Grady,
J.Magn.Magn.Mater. 83 (1990) p.442-446

38. Time Dependence and Rate Dependence of the Coercivicity of Recording Media, (Invited Review)
<R.W. Chantrell, G.N. Coverdale and K. O'Grady,
BNF 7th Int. conf. "Materials Revolution Through the 90s" V1. No. 14 (1989) p.1-6

39. Determination of Easy Axis Distribution in Recording Media,
*M. el Hilo, P.E. Kelly, K. O'Grady, J. Popplewell and R. W. Chantrell,
IEEE Trans. Magn. 26(1) (1990) p.210-212.

40. Effects of Anisotropy Field Distributions on Magnetic Viscosity in Particulate Recording Media,
*M. el Hilo, S. Uren, K. O'Grady, J. Popplewell and R.W. Chantrell,
IEEE Trans. Magn. 26 (1) (1990) p.244-246.

41. A Study of Curie-Weiss Behaviour in Ferrofluids,
*M. Holmes, K. O'Grady and J. Popplewell,
J.Magn.Magn.Mater. 85 (1990) p.47-50

42. The Activation Volumes of Reversal in Ultrafine Particles,
*A-M de Witte and K. O'Grady,
IEEE Trans. Magn. 26(5) (1990) p.1810-1812

43. Components of Magnetisation of a Fine Particle System,
*M. el Hilo and K. O'Grady,
IEEE Trans. Magn. 26(5) (1990) p.1807-1809

44. Magnetic Characterisation of Recording Media (Invited Review),
*K. O'Grady,
IEEE Trans. Magn. 26(5) (1990) p1870-1875

45. Structural and Magnetic Properties of Laser Annealed Magneto-Optic Thin Films,
<P.W. Haycock, R.H. Noyou, T. Thomson, G.J. Herdman, E.W. Williams and K. O'Grady,
IEEE Trans. Magn. 26(5) (1990) p.1921-1923.

46. Magnetic Viscosity, Susceptibility and Fluctuation Fields in Sintered NdFeB,
<G. J. Tomka, P.R. Bissell, K. O'Grady and R.W. Chantrell,
IEEE Trans. Magn. 26(5) (1990) p.2655-2657

47. Activation Volume of Reversal in Ultrafine Particles and Recording Media,
*A-M de Witte, K. O'Grady, G.N. Coverdale and R.W. Chantrell,
J.Magn.Magn.Mater. 88 (1990) p.183-193

48. X ray and Neutron Scattering Studies of Laser Annealed TbFeCo Thin Films,
<P.W. Haycock, W.G. Stirling, R.D. Gould, C.C. Tang, D.L. Jones, G.J. Herdman, E.W. Williams and K. O'Grady,
Thin Solid Films 193/194 (1990) p.1038-1045.

49. Time Dependence in Magnetic Fine Particle Systems and Thin Films,
=R.W. Chantrell, P.R. Bissell and K. O'Grady,
Non Destructive Testing and Evaluation (Invited Review) Vol. 6 (1991) p1.-16

50. Magnetic Measurements of Interaction Effects in CoNiCr and CoPtCr Thin Film Media,
*P.I. Mayo, K. O'Grady, R.W. Chantrell, J.A. Cambridge, I.L. Sanders, T. Yogi and K. Howard,
J.Magn.Magn.Mater. 95 (1991) p.109-117

51. The Peak in the TRM in a Fine Particle System,
*M. el Hilo, K. O'Grady and J. Popplewell,
J. Appl. Phys. 69(8) (1991) p.5133-5136

52. The Temperature Relationship of the Fluctuation Field and Coercivity in NdFeB Alloys,
*G.B. Ferguson, K. O'Grady, J. Popplewell and R.W. Chantrell,
J. Appl. Phys. 69(8) (1991) p.5495-5497

53. A Magnetic Evaluation of Interaction and Noise Characteristics of CoNiCr Thin Films,
*P.I. Mayo, K. O'Grady, P.E. Kelly, J.A. Cambridge, I.L. Sanders, T. Yogi and R.W. Chantrell,
J. Appl. Phys. 69(8) (1991) p.4733-4735

54. Magnetic Pigment Dispersions (A Tutorial Review), (Invited Review),
*K. O'Grady, R.G. Gilson and P.C. Hobby,
J.Magn.Magn.Mater. 95 (1991) p.341-355

55. Spin Glass Behaviour in a Fine Particle System, (Invited),
*R.W. Chantrell, M. el Hilo and K. O'Grady,
IEEE Trans. Magn. 27(4) (1991) p3570-3578

56. Interaction Effects and Activation Volumes in Ba Fe Recording Media,
*M. el Hilo, K. O'Grady and R.W. Chantrell,
IEEE Trans. Magn. 27 (6) (1991) p.4666-4668

57. Interaction Effects in Multi-layer Thin Film Media,
*M. el Hilo, K. O'Grady, R.W. Chantrell, I.L. Sanders, M.M. Yang and J.K. Howard,
IEEE Trans. Magn. 27 (6) (1991) p.5061-5063.

58. Magnetic Characterisation of Recording Media, (Invited Review),
=R.W. Chantrell and K. O'Grady,
J. Phys. D. (Appl. Phys) 25 (1992) p.1-23

59. The Origin of Non-linear ln(t) Behaviour in the Time Dependence of Magnetisation,
=M. el Hilo, K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 109 (1992) p.164-168

60. Susceptibility Phenomena in a Fine Particle System I. Concentration Dependence of the Peak,
=M. el Hilo, K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 114 (1992) p.295-306.

61. Susceptibility Phenomena in a Fine Particle System II Field Dependence of the Peak,
=M. el Hilo, K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 114 (1992) p.307-313

62. Fluctuation Fields of Recording Media Particles: The role of anisotropy dispersion,
=M. el Hilo, K. O'Grady, H. Pfeiffer, R.W. Chantrell and R.J. Veitch,
IEEE Trans. Magn. 28 (5) (1992) p.2689-2691.

63. The Effects of Different Demagnetisation Processes on Interaction Effects in Thin Film Media,
*M. el Hilo, K. O'Grady, P.I. Mayo, R.W. Chantrell, I.L. Sanders and J.K. Howard,
IEEE Trans. Magn. 28 (5) (1992) p.3282-3285.

64. Magnetic Characterisation of Metal Particle Pigment Dispersions,
*P.I. Mayo, K. O'Grady and P.C. Hobby,
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65. Activation Volumes of Reversal in Tb Fe Co Thin Films,
*T. Thomson, K. O'Grady, R.W. Chantrell and C.M. Perlov,
IEEE Trans. Magn. 28 (5) (1992) p.2518-2520.

66. Optical and Magnetic Measurements of Time Dependence Effects in Magneto-optic Thin Films,
*T. Thomson, K. O'Grady, S. Brown, P.W. Haycock and E.W. Williams,
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67. The Sweep-rate Dependence of Coercivity in Recording Media,
*M. el Hilo, A-M de Witte, K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 117(1992) L307-310.

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*M. el Hilo, K. O'Grady, H. Pfeiffer and R.W. Chantrell,
J.Magn.Magn.Mater. 104-07 (1992) p.1580-1582.

70. Interaction Effects in Thin Film Media with Varying Out-of-Plane Orientation,
*M. Alex, T. Yogi, I.L. Saunders and K. O'Grady,
IEEE Trans. Magn. 28(5) (1992) p.3269-3271

71. Magnetic Characterisation of Thin Film Recording Media (Invited),
*K. O'Grady, R.W. Chantrell and I.L. Sanders,
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*M. el Hilo, K. O'Grady, R.W. Chantrell and D.P.E. Dickson,
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73. Demagnetised States and Activation Volumes in Thin Film Media,
*M. el Hilo, K. O'Grady and R.W. Chantrell,
J.Magn.Magn.Mater. 120 (1993) p.244-246.

74. Reptation Effects in Particulate Systems I. Theoretical Predictions,
*M. el Hilo, K. O'Grady and R.W. Chantrell,
J. Appl. Phys. 73 (10) (1993) p.6653-6655

75. Reptation Effects in Particulate Systems II Experimental Studies,
*V.G. Lewis, P.I. Mayo and K. O'Grady,
J. Appl. Phys. 73 (10) (1993) p.6656-6658

76. Alternating Gradient Force Magnetometry: Applications and Extension to Low Temperatures (Invited),
*K. O'Grady, V.G. Lewis and P.E. Dickson,
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(v) Editorial duties

1998-2001 Member of Editorial Board. J Phys D: Applied Physics
IOP Publishing Ltd, Bristol, UK

2001-2012 Associate Editor. J Phys D: Applied Physics
IOP Publishing Ltd, Bristol, UK

Nature of duties: Chair of sub-board A: Magnetism, Superconductors and Photonics
Adjudication of disputed works
Commissioning Review Articles
Writing Editorials
Policy decisions

(vi) All other works

Invited Talks from 2006

1) February 2006, International Workshop on Magnetic Fluids, Dresden.
   – Ferrofluids with High Anisotropy Particles

2) March 2006, Institute of Physics Plasma Group, London.
   – Controlled Grain Size Deposition in Magnetic Thin Films

3) June 2006, MmdE 2006 & ROMSC, Romania.
   – Thermal Instability in Exchange Biased Materials

4) June 2006, Seagate Pittsburgh.
   – Thermal Instability in Exchange Biased Materials

5) June 2006, RSC Short Course, Sheffield.
   – Fine Particle Magnetism

6) July 2006, Institute of Materials, Sheffield.
   – The York-JEOL Centre

7) August 2006, Asia Pacific Data Storage Conference, Taiwan.
   – Magnetic and Recording Properties of CoCrPt/SiO_2 Media

8) August 2006, ICMFS Sendai, Japan.
   – Bulk and Interface Effects in Exchange Bias Systems

9) October 2006, CSIC Madrid.
   – Thermal Instabilities in Exchange Biased Materials

10) November 2006, Seagate Technology Londonderry.
   – Thermal Instabilities in Exchange Biased Materials

11) November 2006, Carnegie Mellon University.
   – Exchange Bias in Granular Systems

12) November 2006, Seagate Research.
   – Exchange Bias in Granular Systems

13) November 2006, NPL, Teddington.
   – Characterisation of Advanced Magnetic Materials

14) November 2006, University of Minnesota.
   – Exchange Bias in Granular Systems

15) March 2007, APS Denver.

- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

16) March 2007, Seagate Research Normandale.
- Exchange Bias in Granular Systems

17) March 2007, Hitachi GST San Jose.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

18) March 2007, Western Digital Inc Fremont, California.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

19) March 2007, Fudan University, Shangai, China.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

20) March 2007, Institute of Physics, Chinese Academy of Sciences, Beijing.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

21) March 2007, Nanjing University.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

22) March 2007, Soochow University.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

23) April 2007, Dresden IFW.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

24) April 2007, Dowa Electronics Ltd.
- Development of Metal Particle Technology for Flexible Media

25) June 2007, Seagate Northern Ireland.
- The Origins of Exchange Bias in Polycrystalline Metallic Thin Films

26) June 2007, Nanomagnet Workshop, Madrid.
- The Physics of Biomedical Applications of Magnetic Nanoparticles

27) November 2007, MRS Fall Meeting Boston.
- Factors Affecting Exchange Bias in Polycrystalline in Metallic Thin Films

28) December 2007, University of Warwick Departmental Colloquium
- Liquid Magnets

29) March 2008, University of York Departmental Colloquium
- A New Paradigm for Exchange Bias

30) March 2008, University of Delft
- Magnetic Nanoparticles for Artificial Silia

31) July 2008, Dowa Electronics Ltd, Japan

- The Magnetic Properties of Metal Particles

32) July 2008, University of Tohoku
- Magnetisation Reversal in Composite Media

33) July 2008, IEEE TMRC Conference
- Magnetisation Reversal in Exchange Coupled Composite Media

34) January 2009, York/Tohoku Seminar, Japan
- Magnetisation Reversal in Exchange Coupled Composite Media

35) January 2009, Toshiba Research Centre, Kawasaki
- Mechanisms of Exchange Bias

36) February 2009, Joint Physics/Biology Seminar, University of York
- Magnetic Nanoparticles for Biomedical Application

37) June 2009, IEEE ROMSC – Iasi
- Control of EB in Polycrystalline Systems.

38) May 2009, NTU, Taipei, Tsing Hua University
- Mechanisms of Exchange Bias

39) June 2009, University of Cardiff
- Mechanisms of Exchange Bias
- Ferrofluids

40) August 2009, IEEE Magnetics Society Summer School, Nanjing
2 lectures

41) 2010. IEEE Magnetics Society Distinguished Lecturer
- A New Paradigm for Exchange Bias in Polycrystalline Thin Films

12-Jan-10	IEEE Santa Clare Chapter, US
13-Jan-10	Hitachi GST, San Jose, US
14-Jan-10	Seagate, US
15-Jan-10	University of Minnesota, US
00 Feb 10	Seagate Technology, Northern Ireland
17-Feb-10	University of Glasgow, UK
10-Mar-10	Manchester, UK
16-Mar-10	Sheffield, UK
23-Mar-10	Grenoble, France
24-Mar-10	Lyon, France
25-Mar-10	Paris, France
12-Apr-10	UPM,Spain
13-Apr-10	Zaragoza, Spain
15-Apr-10	University of Barcelona, Spain
16-Apr-10	ICAMB

11-May-10	Conference - National Meeting on Condensed Matter Physics, Sao, Paulo, Brazil
17-May-10	University, Belo Horizonte, Brazil
18-May-10	UFRGS, Porto Allegro, Brazil
19-May-10	University of Sao Paulo, Brazil
20-May-10	Brazilian Centre for Phyisics Research (CBPF), Rio de Janeiro, Brazil
21-May-10	Universidade Federal de Pernambuco, Recife, Brazil
04-Jun-10	Rome, Italy
06-Jul-10	National Taiwan University, China
07-Jul-10	Taiwan, China
08-Jul-10	University of Hong Kong
09-Jul-10	Nanjing, China
20-Jul-10	Tohoku University, Japan
21-Jul-10	Tokyo Institute of Technology, Japan
22-Jul-10	Nagaoka, Japan
23-Jul-10	University of Osaka, Japan
29-Jul-10	Cambridge, UK
12-Aug-10	Rossendorf, Germany
13-Aug-10	Kaiserslautern, Germany
16-Aug-10	Dresden, Germany
17-Aug-10	Dresden, Germany
06-Sep-10	University of Western Australia, Perth, Australia
08-Sep-10	University of New South Wales Australian Defence Force Academy, Canberra, Australia
09-Sep-10	Australian Nuclear Science and Technology Organisation, Sydney, Australia
10-Sep-10	University of Wollongong, New South Wales, Australia
13-Sep-10	Monash University, Victoria, Australia
16-Sep-10	Data Storage Institute, Singapore
01-Nov-10	Colorado State University, Fort Collins, US
02-Nov-10	National Institute of Standards & Technology, Boulder, Colorado, US
03-Nov-10	University of Colorado at Colorado Springs, US
04-Nov-10	Seattle, US
08-Nov-10	Massachusetts Institute of Technology, US
08-Nov-10	Northeastern University, Boston, US
09-Nov-10	John Hopkins University, Baltimore, US
10-Nov-10	National Instute of Standards & Technology, Gaithersburg, US
10-Nov-10	George Washington University, Washington DC, US
11-Nov-10	MINT Centre, University of Alabama, US

42) August 2009, IEEE Magnetics Summer School, Nanjing University, China
- Basic Magnetism
- Magnetic Liquids

43) 2010, IEEE Magnetics Society Summer School, Dresden
- Basic Magnetism
- Magnetic Liquids

44) August 2011, IEEE Magnetics Society Summer School, New Orleans
- Basic Magnetism
- Magnetic Liquids

45) September 2012, JEMS, Parma, Italy
- Optimization of Exchange Bias in Polycrystalline Thin Films. (Semi-plenary)

46) October 2012, Magnetic Materials Conference, Huangshan, China
- Control of Exchange Bias in Polycrystalline Films for Applications

47) November 2012, IMR Tohoku University, Japan
- Origin of Magnetic Hyperthermia

B2 Research Funding

1. **1984.** £60,000 Wolfson Foundation.
`Magnetic Inks for Automatic Document Processing'.
*K. O'Grady and S.W. Charles (Dept. of Chemistry UCNW),

2. **1984.** £5,000 Rolls Royce plc of Derby.
`A Magnetic Filter for the Removal of Wear Particles'.
*K. O'Grady,

3. **1985** £3,600 Russell Attitude Systems Ltd of Cheltenham.
`Magnetic Filtration of Ferrofluids'.
*K. O'Grady,

4. **1985** £2,600 Control Data Corporation of Brynmawr.
`Evaluation of Switching Field Distributions in Data Tape'.
*K. O'Grady,

5. **1985** £7,300 from SERC.
`A Study of the Effects of Dipolar Interactions in Particulate Systems'.
*R.W. Chantrell, A Bradbury and K. O'Grady,

6. **1985** SERC CASE Studentship in Collaboration with Xidex UK Ltd.
`The Effects of Magnetic Viscosity on Digital Recording Processes'.
*K. O'Grady,

7. **1985** SERC CASE Studentship in Collaboration with Gestetner Mfg Co.
`The Properties of Toners for Magnetography'.
*K. O'Grady,

8. **1986** SERC CASE Studentship in Collaboration with Oxford Instruments Ltd providing £75,000 in additional support.

`The Development and Applications of a High Field Vibrating Sample Magnetometer'
*K. O'Grady,

9. **1986** SERC CASE Studentship in Collaboration with Data Magnetics Ltd of Deeside.
`The Anisotropy of Magneto-optic Recording Media'.
*K. O'Grady,

10. **1986** SERC CASE Studentship in Collaboration with Russell Attitude Systems Ltd of Cheltenham.
`HGMS of Ferrofluids'
*K. O'Grady,

11. **1987** £8,500 from Xerox UK Ltd.
`Development of a dc Permeameter'.
*K. O'Grady,

12. **1987** £102,000 from Video-jet Systems Inc of Chicago.
`Development of Magnetic Inks for Ink-jet Printing'.
*K. O'Grady and S.W. Charles

13. **1988** £5,500 from B.P. International Ltd.
`Interaction Effects in Magnetic Dispersions'.
*K. O'Grady,

14. **1989** £100,265 SERC grant in collaboration with Lancashire Polytechnic and Keele University. This grant was an invited bid with all resources coming to UCNW.
`A Study of Time Dependent Effects in Magnetic Materials, Using a Vibrating Sample Magnetometer'.
*K. O'Grady, R.W. Chantrell and E.W. Williams,

15. **1989** £70,000 as part of EEC CAMST programme.
`Magnetic Reversal in Particulate Media'.
*K. O'Grady,

16. **1989** £140,000 SERC grant in collaboration with Keele University. UCNW share £42,500.
`Laser Annealing of Magneto-optic Films'.
=E.W. Williams, W.G. Stirling and K. O'Grady,

17. **1989** SERC CASE Studentship in collaboration with Sperry Sun UK Ltd.
`Interaction Effects in Ferrofluids'.
*K. O'Grady,

18. **1989** £10,000 from Post Office Research.
`Development of Magnetic Inks'.
*K. O'Grady and S.W. Charles

19. **1989** £3,100 from AERE Harwell Laboratory.
`Magnetic Measurements on High-T Superconductors'.
*K. O'Grady,

20. **1989** £6,000 from IBM Corp., San Jose.
`Magnetic Evaluation of Thin Film Recording Media'.
*K. O'Grady,

21. **1989** £3,100 from Sperry Sun UK Ltd.
`Magnetic Measurements on Ferrofluids'.
*K. O'Grady,

22. **1990** £60,000 SERC collaborative research grant with Xidex UK Ltd and Lancashire Polytechnic. All resources to UCNW.
`Characterisation of Magnetic Pigment Dispersions'.
*K. O'Grady and R.W. Chantrell,

23. **1990** £59,400 SERC in collaboration with Keele and Liverpool Universities. All resources to UCNW.
`Magnetic Studies Using an A.G.F.M.'
*J. Popplewell, K. O'Grady, R.W. Chantrell and C.E. Johnson,

24. **1990** £15,000 from IBM Corp. San Jose.
`Magnetic Measurements on Thin Film Recording Media'
*K. O'Grady,

25. **1990** £15,400 from 3M Corp. St. Paul, USA.
`Measurements on High Density Recording Media'
*K. O'Grady,

26. **1991** 355,000 ecu from EC Brite-Euram Programme.
`Development of Ferrofluids and Complimentary Devices'
*K. O'Grady and S.W. Charles,

27. **1992** £74,000 from SERC
'Interaction Mechanisms in Thin Films and Multilayers'
*K. O'Grady

28. **<1992** 400,000 ecu Administered by University of Twente.
'CAMST II' EC Meeting and Collaboration Project.

29. **1992** £255,000 ecu from EC Brite-Euram Programme
‘Characterisation of Dispersions for Process Control in the Production of Particulate Magnetic Media’
*K O’Grady

30. **1992** £3,300 for SERC Visiting Fellowship for Prof. R. Street.
'Studies of Magnetic Viscosity'
*R.W. Chantrell, J. Popplewell and K. O'Grady

31. **1993** £71,000 from SERC.
'Magnetic and Transport Properties of GMR Films'
<J.F. Gregg and K. O'Grady.

32. **1993** £3,500 from SERC.
'Magnetic Relaxation at Low Temperatures'
*K. O'Grady.

33. **1993** £72,000 from SERC/Aerosonics
Development of a High Resolution VSM
Teaching Company Programme with Aerosonics Ltd
of Newtown, Powys
*K O'Grady

34. **1994** £30,000 p.a. for two years.
Spanish Government Scholarship for Dr M P Morales
*K O'Grady

35. **1994** £33,000 from SERC.
Development of Low Temperature AGFM.
*K O'Grady

36. **1994** SERC CASE Award in collaboration with IBM UK Ltd of Havant.
'Magnetic Evaluation of Thin Film Media'
*K O'Grady

37. **1995** £73,000 for SERC/Ferroperm.
Teaching Company with Ferroperm UK Ltd of Ruthin
=A. R. Owens and K O'Grady

38. **1995** £5,200 from Seagate Technology, N. Ireland
Magnetic Properties of Thin Film Head Wafers
*K O'Grady

39. **1995** £1500 from 3M UK Ltd
Orientation Effects in Barium Ferrite Media
*K O'Grady

40. **1996** £3,000 from Thomas de la Rue Co.
Magnetic Measurements of Printing Inks
*K O'Grady

41. **1996** £55,654 EPSRC
'Switching Processes in High Density Particulate Recording Media'
*K O'Grady and DPE Dickson

42. **1996** £163,000 DTI
Teaching Company Project with Aerosonic Ltd.
*K O'Grady

43. **1996** £60,773 EPSRC plus £10,000 Seagate Magnetics Magnetic Characterisation of Advanced Thin Film Media
*K O'Grady

44. **1997** £101,095 EPSRC plus £15,000 Hewlett Packard.
Magnetic Studies of Metal Evaporated Tape.
K O'Grady.

45. **1997** £139.566 EPSRC
Coercivity Mechanisms in Metal Particle Pigments.
*K O'Grady

46. **1997** EPSRC CASE Award in collaboration with Imation Research Ltd. of Harlow. £30,000
'Magnetic Properties of Pigment Dispersions'.
*K O'Grady

47. **1998** £161,031 EPSRC
Correlation of Magnetic Properties with Microstructure in Model Thin Film Media.
=P.J. Grundy, K. O'Grady and G.A. Jones.

48. **1998** EPSRC CASE Award in collaboration with IBM. £30,000
'Measurement of Anisotropy Fields in Thin Film Media.'
*K O'Grady

49. **1999** Collaboration on EPSRC Grant with P. Reidi.
Value to U.W.B. £18,000.
<K O'Grady

50. **1999** EPSRC £180,000, plus £20,000 Seagate Technology
Magnetisation Reversal in Spin-valves.
*H. Laidler, A.K. Petford-Long and K. O'Grady.

51. **1999** Seagate Technology, £2000
Magnetic Measurements on Spin-valves
*K O'Grady

52. **1999** Quantum Corp. $4000
Magnetic Measurements of Thin Film Media
*K O'Grady

53. **1999** Seagate Media Division $30,000
Supplementary funding for EPSRC grant from the Seagate Plan
*K O'Grady

54. **1999** EPSRC grant £124,000
Thermally Activated Processes in Thin Film Media
*K O'Grady

55. **2000** Seagate Research Division £30,000
for Post Graduate student support
*K O'Grady

56. **2000** DERA £6,000
Magnetic Susceptibility Measurements of Particles
*K O'Grady

57. **2002** EPSRC £162.877
Synchroton X-Ray Measurements
K O'Grady

58. **2001/2002** Dowa Mining Co, Okayama, Japan circa £20,000
Salaries and services associated with patent dispute
*K O'Grady

59. **2001** Seagate Research Division £30,000
Post Graduate student support
*K O'Grady

60. **2001** EPSRC £55,891
Amp Network: Adv. Recording Media
K O'Grady

61. **2001**. Patent Dispute Sony/Dowa versus Bayer Ag
Contract and consultancy on behalf of SEL Inc of New York and Dowa Mining Company Ltd of Okayama, Japan
Total Value $250,000
K O'Grady

62. **2002** CEC Research Training Network – NEXBIAS €1.4 milllion
=K O'Grady (and six other universities)

63. **2002** European Space Agency €100,000
Funding for Post Graduate student
*K O'Grady

64. **2002** Novel Deposition Technology for Magnetic Thin Films
DTI ISD LINK programme in collaboration with Plasma Quest Ltd
K O'Grady, M J Thwaites and P J Grundy
£270,518 (project value £541,036)

65. JEOL UK Ltd. £1.05M for the establishment of York-JEOL Centre for Nanolithography and Analysis
B Cantor, K O'Grady and S P Tear

66. **2003** Novel Deposition Technology for Magnetic Thin Films (2nd grant)
DTI/EPSRC LINK programme
K O'Grady, M J Thwaites and P J Grundy
Total Value £150k Value to York £150k

67. **2004** The York-JEOL Centre
£1.65M from Yorkshire Forward MNT Programme
B Cantor, K O'Grady and S P Tear

68. **Various dates.** Magnetic Properties of Bank Note Inks
circa £10k from various sources via Bank of England
K O'Grady

69. **2005.** Seagate Media Research (Fremont)
Post Graduate Student support £30k

70. **2006.** Seagate Technology (N Ireland).
Post Graduate Student support £30k

71. **2007.** Western Digital Inc (Fremont)
Studies of Exchange Bias $25k

72. **2008.** Western Digital Inc (Fremont)
Studies of Exchange Bias $25k

73. **2008.** Western Digital Inc (Fremont)
Studies of Exchange Bias $25k

74. **2008.** Western Digital Inc (San Jose)
Post Graduate Student support $45k

75. **2009.** EPSRC/JST
Efficient Spin Voltage/Current Generation in a Ferromagnet/Semiconductor Lateral Spin- Valve
£178k

76. **2009-2012**. Seagate Technology, N. Ireland
Studentship £14,000 per annum

77. **2010.** EPSRC/JST
Spin Injection via Heusler Alloys, £120k

78. **2011.** EPSRC
High-Resolution Electron Beam Lithography Critical Mass Grant
£2.3M

79. **2012-2015.** Seagate Technology
Studentship. £14,000 per annum

80. **2012-2015.** JEOL UK Ltd
Studentship. £20,000 per annum.

81. **2012-2015.** JEOL UK Ltd
Studentship. £20,000 per annum.

B3 Research Students (Year indicates graduation)

(i) Supervision

Students successfully completed PhD

1990	Dr S H Uren Dr M el Hilo Dr M Holmes	1991	Dr G B Ferguson Dr M Walker Dr P I Mayo	1993	Dr H D Williams Dr T Thomson Dr A M de Witte
1994	Dr V G Lewis	1995	Dr C P Hancock	1996	Dr P E Kelly
1998	Dr G N Philips Dr P Dova	1999	Dr M Blanco Mantecon	2000	Dr A R Goodman
2001	Dr G R Jones	2002	Dr L Holloway Dr J J Blackwell	2005	Dr J D Dutson
2006	Dr B A Jones Dr M A Gonzalez-Fernandez Dr L E Fernandez Outon			2007	Dr G Vallejo Fernandez Dr S J F Chadwick Dr A E Virden
2009	Dr T Deakin	2010	Dr N P Aley	2011	Dr B Kaeswurm
2012	Dr L Fleet				

Students successfully completed MSc or MPhil

1995	Mr A R Goodman Mr L J Ford	2005	Mr K Schuermann
2007	Mr N Aley	2008	Mr H Khattack
2010	Mr J Chureemart	2011	Ms F Burrows Mr R Carpenter

I currently supervise or co-supervise 10 D Phil students. All my students have submitted their theses/dissertations within deadlines. None have ever failed to get the degrees for which they submitted.

(ii) Examining

I have acted as an external examiner for :-

MSc Candidate (x4)	Manchester University	(1993) (1995) (1996) (2001)
MSc Candidate (x4)	University of Salford	(1993) (1995) (2003) (2003)
PhD Candidate	University of Durham	(1993)
PhD Candidate (x4)	University of W Australia	(1994) (1996) (1999) (2002)
PhD Candidate	University of Liverpool	(1994)
PhD Candidate	Manchester Metropolitan University	(1995)
PhD Candidate	Universidad de Barcelona	(1998)
PhD Candidate	Newcastle University	(1998)
PhD Candidate	Coventry University	(1999)
PhD Candidate (x3)	University of Central Lancashire	(1999) (2001) (2002)
PhD Candidate	Oxford University	(1999)
PhD Candidate	Univrsitée de Grenoble	(2001)
PhD Candidate	Plymouth University	(2004)
PhD Candidate	University of Cambridge	(2003)
PhD Candidate	Birmingham University	(2010)

B4 Other research activities and distinctions

Research Distinctions

1995-1998	Chair of Technical Committee, IEEE Magnetics Society
1998-2000	Elected Member IEEE Magnetics Society AdCom
2000-2002	Secretary/Treasurer of IEEE Magnetics Society (elected)
2002-2004	Vice President IEEE Magnetics Society (elected)
2004-2006	President IEEE Magnetics Society (progression)
2006-2008	Past President IEEE Magnetics Society
2008-2010	Elected Member IEEE Magnetics Society AdCom
2010	Retired from all IEEE positions

The IEEE is the US based largest professional society in the world with 350,000 members in 93 societies. The Magnetics Society is the largest professional body in my field with 3,500 members and a turnover of $3M. I am the first non North American to be elected President of the Magnetics Society in its 50 year history. In consequence I have had a self imposed moratorium on invited papers at our major conferences (Intermag and MMM) which have a typical attendance of 1,300 scientists.

I am a member of the International Committees of the following conferences:

1. Joint European Magnetics Symposium (Grenoble 2002, Dresden 2004, San Sebastian 2006)
2. PMRC (always Japan 2000-date)
3. ICFPM (Pittsburgh 2002, London 2004)
4. Programme Co-Chair, Intermag, Amsterdam
5. ISPMM (Sendai 2003, Singapore 2005)
6. ISAMT (Taiwan) 2005
7. International Conference on Magnetism (Italy 2003, Kyoto 2006)
8. Asia/Pacific Intermag (Nagoya 2005)
9. European Intermag Organising Committee (Chairman) (Amsterdam 2002, Madrid 2008)
10. Programme Co-chair Intermag Madrid (2008)
11. Conference General Chair, Joint Intermag/MMM Conference 2010 in Washington DC
12. International Conference on Fine Particle Magnetism 2013

C. TEACHING

C1 List of courses and evidence of teaching quality

1982 - 1984 at UCNW Physics Department

Part I — 20 Lectures on Atomic & Nuclear Physics.

Part II (i) — 12 Lectures on Solid State Physics.
8 Lectures on Crystallography.

Part I — Laboratory 40 X 3hr demonstrating.
1 new experiment developed.

Part II (ii) — Laboratory 20 X 9hr demonstrating. (1983/4 only)
2 new experiments developed.

Post Graduate — 20 lectures on Magnetism and Magnetic Materials.

1983 - 1984 at Loughborough University of Technology

1st Year — 20 Lectures on Mechanics.
5 Lectures on Vector Algebra.

3rd Year — 15 Lectures on Solid State Physics.

1st Year — Laboratory 40 X 3hr demonstrating.
2 new experiments developed.

Acted as Year Tutor for first year Physics degree.

1985 - 1988 at UCNW Physics Department

1st Year 20 Lectures on Atomic & Nuclear Physics

Part II (i) 10 Lectures on Crystallography.

Part II (ii) 15 Lectures on Magnetism and Magnetic Materials.

Part I Laboratory 40 X 3hr demonstrating.
4 experiments revised and modernized.

1986 Drew up M.Sc. Syllabus on Magnetic Recording including novel part time scheme. Course approved by Faculty Board and Academic Board but never operated due to closure of Physics Department.

This MSc course, which was drawn up in collaboration with colleagues mainly from industry, was the subject of an offer of substantial financial support by both the WDA and a consortium of four industrial companies.

1985 - 1994 at SEECS UCNW

1st Year 24 lectures on Electromagnetism
14 lectures on Atomic and Nuclear Physics
6 lectures on Laboratory Practice
20 x 3 hr Laboratory sessions
3 new experiments developed

2nd Year 12 lectures on Solid State Physics
12 lectures on Nuclear Technology
10x3 hour Laboratory Sessions
3 new experiments developed.

3rd year 24 lectures on Magnetic Materials
12 lectures on Electromagnetic Field Theory

1994 - 1996

1st Year 24 lectures on Electromagnetism
14 lectures on Atomic and Nuclear Physics

2nd Year 24 lectures on Solid State Physics (delivered alternate years).
20x3 hour Laboratory sessions

3rd year 24 lectures on Magnetic Materials (delivered alternate years).
12 lectures on Electromagnetic Field Theory

1996 - 1999

1st Year	24 lectures on Waves and Optics 16 lectures on Electromagnetism
2nd Year	12 lectures on Electromagnetic Field Theory 12 lectures on Small Business Management

2000 - 2002

1st Year	18 lectures on Stars and Planets
2nd Year	Demonstrator in Teaching Lab
3rd Year	9 lectures on EM Field Theory
4th Year	9 lectures on EM Field Theory 18 lectures on Magnetism and Magnetic Materials

2002-date

1st Year	18 lectures on Stars and Planets
2nd Year	Coordinator of 2nd Year Teaching Lab Lab redesigned and circa 20 new experiments introduced. Initiated teaching of LabView
3rd Year	18 lectures on Magnetism and Magnetic Materials

C2 Teaching materials and courses of special significance

Designed and implemented novel design of new 2nd Year Laboratory at York. Over 20 new experiments developed. Lab has received visits form UNSW Australia, University of Glasgow and request for design from CMU, Pittsburgh, PA. High rating and feedback from students and complaints about high standard from external examiner!

Three new experiments introduced to 1st Year Laboratory and two to the 3rd Year Laboratory.

C3 Examining and assessing for undergraduate and taught postgraduate degrees

From 2004-2008 I was external examiner for all Physics degrees at the University of Liverpool.

C4 Other teaching activities and distinctions

1. From 1993 to 2000 I was the founding chairman of the BA section in North Wales organising 2 day BAYSDAYS for 1300 children in Science Week each year.

2. From 1992 to 2000 I was an IOP schools lecturer giving a demonstration lecture of Magnetic Liquids typically 4 times/year. I have given the lecture informally ~25 times since coming to York. The lecture was given at an EU Summer School in Biarritz in 2004 to ~100 students. The lecture was given to Tohoku Centre of Excellence in 2007 to ~300 students.

3. I am the co-ordinator of the EU NEXBIAS Training Network cited as one of three out of 160 exhibiting best practice.

D. ADMINISTRATION AND MANAGEMENT

D1 Departmental administrative posts - 2007 to date. Departmental Safety Officer

D2 University administrative posts

1. From 1 July 2005 to January 2007 I was appointed Director of the York-JEOL Centre having performed much of the role and raising all external resources (£2.65M) in an informal role from 2003.

2. From October 2008 I was invited to become the founding Director of the York Institute for Materials Research. The work plan and activity plan for the Institute was designed exclusively by myself and thus far has been implemented. The work plan contains a number of significant deliverables, all of which have been met.

D3 Other administrative work and distinctions

1. See details of my role in IEEE Magnetics Society at B4. I regard this as a research distinction but my role is largely administrative. This is the senior post in the largest professional body in my field and I am the first non-North American to be elected to this post.

2. From 1998-2001 I was the coordinator of the EPSRC Advanced Magnetics Programme initiating the Seagate Plan which gave additional support of $0.5M to some 20 universities. The Seagate Plan operates to this day.

3. From 2000-2002 I was a member of the DTI Strategic Advisory Group on Basic Technologies.

4. I am a member of the Spanish Commission on Nanotechnology.

5. I am an advisor to the Bank of England on magnetic bank-note security. This work has generated two UK patents in the last 3 years.

6. I worked as an advisor to the Swedish Academy of Sciences 1997-1999

7. Served on a grant awarding panel for the Materials Division of Finnish Academy of Sciences 2005.