

Professor Philip Mountford

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Date of birth 24th October 1962

Current positions

- Professor of Organometallic Chemistry and Catalysis.
- Fellow and Tutor in Inorganic Chemistry, St Edmund Hall.

Prizes and awards, fellowships and visiting professorships

- BASF Guest Professor, Universität Tübingen, Germany (2015-2016).
- Schlenk Lecturership and Prize, Universität Tübingen, Germany (2015).
- Peking University–Eli Lilly Prize Lectureship, Peking, China (2014).
- Royal Society of Chemistry Organometallic Chemistry (Frankland) Award (2012-2013).
- Visiting Professor, Universität Heidelberg, Germany (2004).
- Visiting Professor, Université Bordeaux I, Bordeaux, France (2003).
- Visiting Professor, Université Louis Pasteur, Strasbourg, France (2002).
- Royal Society of Chemistry Sir Edward Frankland Fellowship (awarded for organometallic chemistry, 1998-1999).
- Fellow of the Royal Society of Chemistry (CChem FRSC, 1998).
- Junior Research Fellowship (open competition), Wolfson College, Oxford (1989-1992).
- Smith, Kline & French Prize for outstanding academic achievement, University of Hertfordshire (1986).

Selected other professional details

- Member of the International Advisory Board for the 28th International Conference on Organometallic Chemistry (2018).
- Chairman of the Editorial Board of the Royal Society of Chemistry's *Specialist Periodical Reports* (2016-date)
- Member of the International Advisory Board for the JSPS program "Precisely Designed Catalysts" (Japan, 2015-date).
- Advisory group, appointment of Editorial Board Chair of *Chemical Communications* (2015).
- Guest Editor, *Dalton Transactions*: "Earth abundant element compounds in homogeneous catalysis" (2015).
- Member of the the Royal Society of Chemistry Dalton Division Awards Committee (2013 & 2014).
- International Scientific Advisory Committee for XIth European Congress on Catalysis (2013).
- Guest Editor, *Dalton Transactions*: "Advances in Metal-Catalysed Polymerisation" (2013).
- Member of the Editorial Advisory Board for the MDPI journal *Inorganics* (2013-date).
- Chairman of the Editorial Board of the Royal Society of Chemistry's journal *Dalton Transactions* (2012-2015).
- Member of the Royal Society of Chemistry's Dalton Division (Inorganic Chemistry) Council (2012-2015).
- Member of the Editorial Advisory Board for Open Access Books in Chemistry (2012-date).
- External advisor, University of Manchester Research Excellence Framework (REF) preparation exercise (2012).
- External assessor, Dutch Polymer Institute, The Netherlands (2011 & 2013).
- External examiner for the undergraduate chemistry course, University of East Anglia (2009-2012).
- Consultant to DSM Elastomers BV (2006-2012).
- Guest Editor, *Journal of Organometallic Chemistry*: " π -donor ligands" (1999).
- Member of the American Chemical Society (1993).

Previous academic positions, qualifications and education

- Head of Inorganic Chemistry, University of Oxford (2013-2016).
- Acting Head and Executive Deputy Head of Inorganic Chemistry, University of Oxford (2008-2013)
- Reader in Inorganic Chemistry, University of Oxford (2002-2006).
- Lecturer in Inorganic Chemistry, University of Oxford (1998-2002).
- M.A. by special resolution, University of Oxford (1998).
- Lecturer in Inorganic Chemistry, University of Nottingham (1992-1998).
- Departmental Lecturer, Department of Chemistry, University of Oxford (1990-1992).
- College lecturer, Keble College, Oxford (1990-1992).
- D.Phil. in Chemistry, University of Oxford and Balliol College Oxford (1990). Thesis title: "The Syntheses, Structures and Reactivity of Organoditungsten Compounds". Advisor: Professor M.L.H. Green.
- B.Sc. (Hons, Class 1) in Applied Chemistry, University of Hertfordshire (1986).

Publications and international or national conference presentations (see full publication list below)

- Author of *ca.* 265 publications and patents.
- *H*-index 49 (*ca.* 8400 citations & 32 citations per peer-reviewed item).
- Speaker at *ca.*130 international or national meetings/conferences (65 invited/plenary) or university seminars.

Research interests summary

Fundamental aspects of the synthesis, reactions and electronic and molecular structures of organometallic compounds; chemistry of transition metal compounds with metal-ligand multiple bonds; olefin polymerisation catalysts based on new ligand designs; design and synthesis of new catalysts for the polymerisation of cyclic esters towards biodegradable and biocompatible polymers using transition metal, main group and lanthanide compounds; synthesis, properties and reactions of compounds with unusual metal-metal and metal-element bond combinations.

University leadership and management experience; doctorate, postdoctorate and undergraduate supervision

Extensive senior leadership and management experience at the both departmental and divisional levels; full details are listed at the end of this document. Includes responsibility for all academic teaching and research activities, and health and safety in the Inorganic Chemistry sub-department from 2010-2011 and 2013-2016.

Direct supervision of 51 PhD students (13 current, 38 completed), 27 postdoctoral researchers (2 current, 25 completed) and 47 Masters students (44 completed). 14 former PhD or postdoctoral researchers went on to independent academic positions and/or fellowships around the world. Details are given at the end of this document.

Lectures at international and national meetings (65 as invited, keynote or plenary)

76. 28th International Conference on Organometallic Chemistry, Florence, Italy (2018)
75. Chemical Society of Japan Spring meeting, Chiba Prefecture, (2018).
74. Joint JSPS-DFG Symposium, Kansai, Japan (2018).
73. 28th Conference on the Rare Earths Elements, Tübingen, Germany (2017).
72. Organometallic Discussion Meeting, The Spanish Chemical Society, Universidad de Alcalá, Spain (2017).
71. 100th Canadian Society for Chemistry Conference, Toronto (2017).
70. 2nd Royal Society of Chemistry, Southern Dalton Meeting, Reading, UK (2016).
69. 16th Inorganic Chemistry Division meeting of the Royal Australian Chemical Institute and the New Zealand Institute of Chemistry, Melbourne, Australia (2016).
68. 27th International Conference on Organometallic Chemistry, Melbourne, Australia (2016).
67. 4th Blue Sky Conference on Catalytic Olefin Polymerization, Sorrento (2016).
66. Transition Metal CPD Day, The Prince's Teaching Institute, London, UK (2016).
65. 5th Asian Conference on Coordination Chemistry, Hong Kong (2015).

64. 7th PKU-Eli Lilly Symposium of Organic Chemistry, Beijing, China (2014).
63. 41st International Conference on Coordination Chemistry, Singapore (2014).
62. Symposium on New Aspects of Reactive Organometallic Complexes of the Transition Metals, Osaka, Japan (2014).
61. 26th International Conference on Organometallic Chemistry, Sapporo, Japan (2014).
60. 97th Canadian Society for Chemistry Conference, Vancouver (2014).
59. 4th KACST Petrochemicals Forum, Riyadh, Saudi Arabia (2014).
58. Mini-Symposium in Organometallic Chemistry, UCLAN, UK (2014).
57. RSC Awards Symposium, St Andrews, Scotland (2013).
56. 4th Dalton Transactions International Symposium, Singapore and Shanghai, China (2012).
55. International Symposium on Organometallic Chemistry 2012, Seoul, South Korea (2012).
54. ICIQ Taragonna/ Oxford Chemistry Meeting in Catalysis, Oxford (2012).
53. 92nd Canadian Society for Chemistry Conference, Calgary (2012).
52. EUFEN-1, Tarragona, Spain (2012).
51. First International Symposium on Molecular Activation, Kobe, Japan (2011).
50. International Symposium on Organometallic Chemistry 2011, Osaka, Japan (2011).
49. EICC-1: First EuCheMS Inorganic Chemistry Conference, Manchester, UK (2011).
48. 23rd Conference on the Rare Earths Elements, Bayreuth, Germany (2010).
47. 3rd Blue Sky Conference on Catalytic Olefin Polymerization, Sorrento (2010).
46. 5th Australian National Organometallics Meeting, Sydney (2010).
45. "Frontiers in Transition Metal Catalysis", Zentralinstitut für Katalyseforschung, TUM, Germany (2009).
44. 92nd Canadian Society for Chemistry Conference, Ontario (2009).
43. "Chemistry and Spectroscopy of the Lanthanides and Actinides", Royal Society of Chemistry Awards Symposium, Oxford (2009).
42. Cardiff Easter Conference, Cardiff, Wales (2009).
41. 38th Meeting of the Royal Society of Chemistry Inorganic Reaction Mechanisms Group, UK (2009).
40. 38th International Conference on Coordination Chemistry, Jerusalem (2008).
39. 23rd International Conference on Organometallic Chemistry, Rennes (2008).
38. Gecom-Concoord 2008, Paris (2008).
37. 17th EuCheMS Conference on Organometallic Chemistry, Sofia (2007).
36. Gordon Research Conference in Organometallic Chemistry, USA (2007).
35. Symposium on Olefin Polymerisation Catalysis, UEA (2007).
34. Sackler Prize Symposium, Tel Aviv (2007).
33. 15th International Symposium on Homogeneous Catalysis (2006).
32. Organometallics and their Applications (OATA), Cape Town (2006).
31. 22nd International Conference on Organometallic Chemistry, Zaragoza (2006).
30. Theoretical and Experimental Inorganic Chemistry Symposium, Oxford (2004).
29. 21st International Conference on Organometallic Chemistry, Vancouver (2004).
28. 5th Royal Society of Chemistry International Symposium on Transition Metals in Organic Synthesis, Glasgow (2004).
27. Royal Society of Chemistry Coordination Chemistry Discussion Group: annual conference, Leicester (2004).
26. 16th Conference on the Rare Earths Elements, Berlin, Germany (2003).
25. Combined meeting of the Canadian Society for Chemistry and IUPAC, Ottawa (2003).
24. 15th Conference on the Rare Earths Elements, Mainz, Germany (2002).
23. 20th International Conference on Organometallic Chemistry, Corfu (2002).

22. 222nd American Chemical Society National Meeting symposium "The Chemistry of the Metal-Nitrogen Bond", Chicago, USA (2001).
21. Royal Society of Chemistry Coordination Chemistry Discussion Group: annual conference, York (2001).
20. 4th Anglo-Dutch Symposium on Organometallic Chemistry and Catalysis, The Netherlands (2000).
19. 34th International Conference on Coordination Chemistry, Edinburgh (2000).
18. Royal Society of Chemistry, Glasgow and West of Scotland Section (2000).
17. South-West Regional Meeting of the Dalton Division of the Royal Society of Chemistry, Cardiff (2000).
16. 3rd Workshop on Frontier Applied Chemistry Research "21st Century Molecular Synthesis and Catalysis", Hong Kong, China (1999).
15. 218th American Chemical Society National Meeting symposium "Frontiers in Organometallic Chemistry", New Orleans, USA (1999).
14. Gordon Research Conference in Organometallic Chemistry, USA (1999).
13. 18th International Conference on Organometallic Chemistry, Munich (1998).
12. INEOS-98, Russian Academy of Science, Moscow (1998).
11. Royal Society of Chemistry Autumn Congress, University of Aberdeen (1997).
10. 213th American Chemical Society National Meeting, San Francisco, USA (1997).
9. British-Russian Interdisciplinary Symposium, Kaliningrad, Russia (1996).
8. 211th American Chemical Society National Meeting, New Orleans, USA (1996).
7. Midlands Universities Inorganic Discussion Meeting, University of Loughborough (1995).
6. Royal Society of Chemistry/GDCh 3rd International Conference on Inorganic Chemistry, University of Sussex (1995).
5. Royal Society of Chemistry symposium: "New Chemistry with Alkoxide and Imide Ligands", London (1995).
4. "Chemistry Research for Britain", The Royal Society, London (1993).
3. MICRA 92, University of Newcastle (1992).
2. RSC Autumn Congress, University College, Dublin (1992).
1. International Conference on the Chemistry of the Early Transition Metals, Sussex University (1992).

University seminars

University of Southampton (twice); University of Cambridge (twice); University of York; University College London (twice); University of Sheffield (twice); University of Birmingham; University of Bristol; University of Manchester (twice); University of Leicester; University of Durham; Imperial College London (twice); University of Mainz, Germany; University of Göttingen, Germany; University of Würzburg, Germany (twice); University of Marburg, Germany; University of Bayreuth, Germany (twice); University of Sussex; University of Leeds; University of Oxford; University of East Anglia (twice); University of Groningen, Netherlands; University of Warwick; QMW College, London; University of Bath (twice); Université Louis Pasteur, Strasbourg, France (twice); University of Karlsruhe (twice), Germany; Laboratoire de Chimie de Coordination du CNRS, Toulouse, France (twice); University of Bourgogne, France; Université Montpellier 2, France; University of Basel, Switzerland; University of Heidelberg, Germany; University of Liverpool; Herriot-Watt University; University of Nottingham (twice); University of St Andrews; Eindhoven University of Technology, Netherlands; RWTH Aachen University, Germany (twice); University of Erlangen-Nürnberg, Germany; University of Regensburg, Germany; University of Lethbridge, Canada; Osaka University, Japan (twice); University of Rennes, France; University of Edinburgh; Universität Tübingen, Germany (twice); ETH Zurich, Switzerland (twice); Universität Duisburg-Essen, Germany; Universidad de Sevilla-Consejo Superior de Investigaciones Científicas, Spain.

Publications and patents

265. "New titanium borylimido compounds: synthesis, structure and bonding". B. A. Clough, S. Mellino, A. V. Protchenko, M. Slusarczyk, L. C. Stevenson, M. P. Blake, B. Xie, E. Clot and P. Mountford, *Inorg. Chem.*, 2017, **56**, 10794-10814.
264. "Reactions of titanium imides and hydrazides with boranes". S. Mellino, L. C. Stevenson, E. Clot and P. Mountford, *Organometallics*, 2017, **36**, 3329-3342.

263. "New scandium borylimido chemistry: synthesis, bonding and reactivity". B. A. Clough, S. Mellino, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2017, **139**, 11165-11183.
262. "Monometallic and bimetallic titanium κ 1-amidinate complexes as olefin polymerization catalysts". R. A. Collins, A. F. Russell, R. T. W. Scott, R. Bernardo, G. H. J. van Doremaele, A. Berthoud and P. Mountford, *Organometallics*, 2017, **36**, 2167-2181.
261. "Piperazine-Based N_4 -Type 16-Membered Macrocyclics and Their Nickel(II) Complexes". S. Z. Vatsadze, D. P. Krut'ko, A. J. Blake, and P. Mountford, *Macrocyclics*, 2017, **10**, 98-109.
260. "Enabling and probing oxidative addition and reductive elimination at a Group 14 metal center: cleavage and functionalization of E-H bonds by a bis(boryl)stannylene". A. V. Protchenko, J. I. Bates, L. M. A. Saleh, M. P. Blake, A. D. Schwarz, E. L. Kolychev, A. L. Thompson, C. Jones, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2016, **138**, 4555-4564.
259. "Synthesis, characterisation and structural studies of amidinate and guanidinate alkaline earth-transition metal bonded complexes". R. Green, A. C. Walker, M. P. Blake and P. Mountford, *Polyhedron*, 2016, **116**, 64-75. Invited article in celebration of MLH Green's 80th birthday.
258. "Probing the limits of alkaline earth-transition metal bonding: an experimental and computational study". M. P. Blake, N. Kaltsoyannis and P. Mountford, *J. Am. Chem. Soc.*, 2015, **137**, 12352-12368.
257. "Reactions of titanium hydrazides with silanes and boranes: N-N bond cleavage and N atom functionalization". L. C. Stevenson, S. Mellino, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2015, **137**, 10140-10143.
256. "Earth-abundant element compounds in homogeneous catalysis". L. L. Schafer, P. Mountford and W. E. Piers as Guest Editors for a Themed Issue, *Dalton Trans.*, 2015, **44**, 12027-12028.
255. "Bis(phenolate)amine-supported lanthanide borohydride complexes for styrene and trans-1,4-isoprene (co-)polymerisations". F. Bonnet, H. E. Dyer, Y. El Kinani, C. Dietz, P. Roussel, M. Visseaux, P. Zinck and P. Mountford, *Dalton Trans.*, 2015, **44**, 12312-12325. Invited submission for a Special Issue on earth-abundant element compounds in homogeneous catalysis.
254. "Group 4 metal complexes for homogeneous olefin polymerisation: a short tutorial review". R. A. Collins, A. F. Russell and P. Mountford, *Appl. Petrochem. Res.*, 2015, **5**, 153-171. Invited article.
253. "s-Block Metal-Metal Bonds". C. Jones, P. Mountford, A. Stasch and M. P. Blake, in *Molecular Metal-Metal Bonds: Compounds, Synthesis, Properties*, Ed. S. T. Liddle, Wiley, 2015.
252. "Synthesis, molecular and electronic structure, and reactions of a Zn-Hg-Zn bonded complex". M. P. Blake, N. Kaltsoyannis and P. Mountford, *Chem. Commun.*, 2015, **51**, 5743-5746. Highlighted in the RSC magazine *Chemistry World*, 2015, **12**, 4.
251. "Reactivity of boryl- and silyl-substituted carbenoids towards alkynes: insertion and cycloaddition chemistry". A. V. Protchenko, M. P. Blake, A. D. Schwarz, C. Jones, P. Mountford and S. Aldridge, *Organometallics*, 2015, **34**, 2126-2129.
250. "The influence of Michael Lappert on the chemistry landscape". J. Arnold, P. J. Brothers, P. Mountford, W. E. Piers, C. M. Thomas and T. D. Tilley, *Dalton Trans.*, 2014, **43**, 16553-16556.
249. "Oxidative bond formation and reductive bond cleavage at Main Group metal centers: reactivity of five valence electron MX_2 radicals". A. V. Protchenko, D. Dange, M. P. Blake, A. D. Schwarz, C. Jones, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2014, **136**, 10902-10905.
248. "Heavy metal boryl chemistry: complexes of cadmium, mercury and lead". A. V. Protchenko, D. Dange, A. D. Schwarz, C. Y. Tang, N. Phillips, P. Mountford, C. Jones and S. Aldridge, *Chem. Commun.*, 2014, **50**, 3841-3844.
247. "Chiral Lanthanide Complexes bearing amido-bisoxazoline Ligands: Coordination Chemistry, Spectroscopy, and Catalysis". S. D. Bennett, B. A. Core, M. P. Blake, S. J. A. Pope, Philip Mountford and B. D. Ward, *Dalton Trans.*, 2014, **43**, 5871-5885.
246. "Stable MX_2 radicals (M = Ga, In, Tl)". A. V. Protchenko, D. Dange, J. R. Harmer, C. Y. Tang, A. D. Schwarz, M. J. Kelly, N. Phillips, R. Tirfoin, K. H. Birjukumar, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *Nature Chem.*, 2014, **6**, 315-319.
245. "Reactions of a cyclopentadienyl-amidinate titanium benzimidamido complex". L. R. Groom, A. F. Russell, A. D. Schwarz and P. Mountford, *Organometallics*, 2014, **33**, 1002-1019.
244. "Group 5 hydride and borohydride complexes supported by cyclopentadienyl-imido ligand sets". N. McLeod, L. G. Kuzmina, A. V. Churakov, P. Mountford and G. I. Nikonov, *Dalton Trans.*, 2014, **43**, 188-195.
243. "Synthesis and reactions of a cyclopentadienyl-amidinate titanium *tert*-butoxyimido compound". L. R. Groom, A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Organometallics*, 2013, **32**, 7520-7539.
242. "Advances in metal-catalysed polymerisation and related transformations". P. Mountford as Guest Editor for a Themed Issue, *Dalton Trans.*, 2013, **42**, 8977-8978.
241. "Synthesis and reactivity of titanium hydrazido complexes supported by diamido-ether ligands." J. Unruangsri, H. Morgan, A. D. Schwarz, A. D. Schofield and P. Mountford, *Organometallics*, 2013, **32**, 3091-3107.
240. "Synthesis and reactions of β -diketiminato-supported complexes with Mg-Fe or Yb-Fe bonds." M. P. Blake, N. Kaltsoyannis and P. Mountford, *Chem. Commun.*, 2013, **49**, 3315-3317.

239. "Potassium, zinc, and magnesium complexes of a bulky OOO-tridentate bis(phenolate) ligand: synthesis, structures, and studies of cyclic ester polymerisation". Y. Huang, W. Wang, C.-C. Lin, M. P. Blake, L. Clark, A. D. Schwarz and P. Mountford, *Dalton Trans.*, 2013, **42**, 9313-9324. Invited contribution for a Special Issue on metal-catalysed polymerisation.
238. "Synthesis and structures of calcium and strontium 2,4-di-*tert*-butylphenolates and their reactivity towards the amine co-initiated ring-opening polymerisation of *rac*-lactide". L. Clark, G. B. Deacon, C. M. Forsyth, P. C. Junk, P. Mountford, J. P. Townley, and J. Wang, *Dalton Trans.*, 2013, **42**, 9294-9312. Invited contribution for a Special Issue on metal-catalysed polymerisation.
237. "Synthesis, Bonding and Reactivity of a Terminal Titanium Alkylidene Hydrazido Compound". P. J. Tiong, L. R. Groom, E. Clot and P. Mountford, *Chem. Eur. J.*, 2013, **19**, 4198-4216.
236. "A generic one-pot route to acyclic two-coordinate silylenes from Si(IV) precursors: synthesis and structural characterization of a silylsilylene." A. V. Protchenko, A. D. Schwarz, M. P. Blake, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *Angew. Chem. Int. Ed.*, 2013, **52**, 568-571.
235. "Synthesis and *rac*-lactide ring-opening polymerisation studies of new alkaline earth tetrahydroborate complexes." R. A. Collins, J. Unruangsri and P. Mountford, *Dalton Trans.*, 2013, **42**, 759-769. Invited contribution for a Special Issue on metal borane and borohydride chemistry.
234. "A remarkable switch from a diamination to a hydrohydrazination catalyst and observation of an unprecedented catalyst resting state." A. D. Schwarz, C. S. Onn and P. Mountford, *Angew. Chem. Int. Ed.*, 2012, **51**, 12298-12302.
233. "A stable two-coordinate silylene." A. V. Protchenko, K. H. Birjkumar, D. Dange, A. D. Schwarz, D. Vidovic, C. Jones, N. Kaltsoyannis, P. Mountford and S. Aldridge, *J. Am. Chem. Soc.*, 2012, **134**, 6500-6503.
232. "Site selectivity and reversibility in the reactions of titanium hydrazides with Si-H, Si-X, C-X and H⁺ reagents: Ti=N_α 1,2-silane addition, N_β alkylation, N_α protonation and σ-bond metathesis." P. J. Tiong, A. Nova, A. D. Schwarz, J. D. Selby, E. Clot and P. Mountford, *Dalton Trans.*, 2012, **41**, 2277-2288.
231. "The first Group 4 metal bis(imido) and tris(imido) complexes." A. D. Schwarz, A. J. Nielson, N. Kaltsoyannis and P. Mountford, *Chem. Sci.*, 2012, **3**, 819-824.
230. "Titanium *tert*-butoxyimido compounds." A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Inorg. Chem.*, 2011, **50**, 12155-12171.
229. "Heterobimetallic complexes containing Ca-Fe or Yb-Fe bonds: synthesis and molecular and electronic structures of [M{CpFe(CO)₂}₂(THF)₃]₂ (M = Ca or Yb)." M. P. Blake, N. Kaltsoyannis, and P. Mountford, *J. Am. Chem. Soc.*, 2011, **133**, 15359-15361.
228. "New sandwich and half-sandwich titanium hydrazido compounds." J. D. Selby, M. Feliz, A. D. Schwarz, E. Clot and P. Mountford, *Organometallics*, 2011, **30**, 2295-2307.
227. "Titanium alkoxyimido (Ti=N-OR) complexes: reductive N-O bond cleavage at the boundary between hydrazide and peroxide ligands." A. D. Schwarz, A. Nova, E. Clot and P. Mountford, *Chem. Commun.*, 2011, **47**, 4926-4928.
226. "Group 3 and lanthanide boryl compounds: syntheses, structures and bonding analyses of Sc-B, Y-B and Lu-B σ-coordinated NHC analogues." L. M. A. Saleh, K. H. Birjkumar, A. V. Protchenko, A. D. Schwarz, S. Aldridge, C. Jones, N. Kaltsoyannis, and P. Mountford, *J. Am. Chem. Soc.* 2011, **133**, 3836-3839.
225. "Sulfonamide, phenolate and directing ligand-free indium initiators for the ring-opening polymerization of *rac*-lactide." M. P. Blake, A. D. Schwarz and P. Mountford, *Organometallics*, 2011, **30**, 1202-1214.
224. "Reactions of cyclopentadienyl-amidinate titanium hydrazides with CO₂, CS₂ and isocyanates: Ti=N_α cycloaddition, cycloaddition-insertion and cycloaddition-NNR₂ group transfer reactions." P. J. Tiong, A. Nova, L. R. Groom, A. D. Schwarz, J. D. Selby, A. D. Schofield, E. Clot and P. Mountford, *Organometallics*, 2011, **30**, 1182-1201.
223. "Si-H and Si-Cl bond activation of titanium hydrazides with silanes and subsequent Ti-H / E-H (E = Si or H) σ bond metathesis". P. J. Tiong, A. Nova, E. Clot and P. Mountford, *Chem. Commun.*, 2011, **47**, 2276-2278.
222. "Cationic and charge-neutral calcium tetrahydroborate complexes and their use in the controlled ring-opening polymerisation of *rac*-lactide." M. G. Cushion and P. Mountford, *Chem. Commun.*, 2011, **47**, 2276-2278.
221. "Reaction site diversity in the reactions of titanium hydrazides with organic nitriles, isonitriles and isocyanates: Ti=N_α cycloaddition, Ti=N_α insertion and N_α-N_β bond cleavage." A. D. Schofield, A. Nova, J. D. Selby, A. D. Schwarz, E. Clot and P. Mountford, *Chem. Eur. J.*, 2011, **17**, 265-285. Designated a "VIP" paper by the Editor.
220. "Contrasting reactivity of anionic boron- and gallium-containing NHC analogues: E-C vs. E-M bond formation (E = B, Ga)." A. V. Protchenko, L. M. A. Saleh, D. Vidovic, D. Dange, C. Jones, P. Mountford and S. Aldridge, *Chem. Commun.*, 2010, **46**, 8546-8548. Designated a "Hot Article" by the editor and allocated the Inside Cover.
219. "Ligand Variations in New Sulfonamide-Supported Group 4 Ring Opening Polymerization Catalysts." A. D. Schwarz, K. R. Herbert, C. Paniagua and P. Mountford, *Organometallics*, 2010, **29**, 4171-4188.
218. "Ring-opening polymerization of *rac*-lactide by bis(phenolate)amine-supported samarium borohydride complexes: an experimental and DFT study." H. E. Dyer, S. Huijser, N. Susperregui, F. Bonnet, A. D. Schwarz, R. Duchateau, L. Maron and P. Mountford, *Organometallics*, 2010, **29**, 3602-3621.

217. "M=N_α cycloaddition and N_α-N_β insertion in the reactions of titanium hydrazido compounds with alkynes: a combined experimental and computational study." A. D. Schofield, A. Nova, J. D. Selby, C. D. Manley, A. D. Schwarz, E. Clot and P. Mountford, *J. Am. Chem. Soc.*, 2010, **132**, 10484-10497.
216. "Low-coordinate rare-earth complexes of the asymmetric 2,4-di-*tert*-butylphenolate ligand prepared by redox transmetallation/protonolysis reactions, and their reactivity towards ring-opening polymerisation." L. Clark, G. B. Deacon, C. M. Forsyth, P. C. Junk, P. Mountford and J. P. Townley, *Dalton Trans.*, 2010, **39**, 6693-6704. Invited contribution for a Special Issue on Organo-f-element chemistry.
215. "Synthesis, solid state and DFT structure and olefin polymerization capability of a unique base-free dimeric methyl titanium dication." E. G. Ijpeij, B. Coussens, M. A. Zuideveld, G. H. J. van Doremaele, P. Mountford, M. Lutz and A. L. Spek, *Chem. Commun.*, 2010, **46**, 3339-3341.
214. "Synthesis and ethylene trimerisation capability of new chromium(II) and chromium(III) heteroscorpionate complexes." A. F. R. Kilpatrick, S. V. Kulangara, M. G. Cushion, R. Duchateau, and P. Mountford, *Dalton Trans.*, 2010, **39**, 3653-3664.
213. "Sulfonamide-supported aluminum catalysts for the ring-opening polymerization of *rac*-lactide." A. D. Schwarz, Z. Chu and P. Mountford, *Organometallics*, 2010, **29**, 1246-1260.
212. "Syntheses and structural diversity of Group 2 and Group 12 tris(pyrazolyl)methane and zwitterionic tris(pyrazolyl)methanide compounds." M. G. Cushion, J. Meyer, A. Heath, A. D. Schwarz, I. Fernández, F. Breher, P. Mountford, *Organometallics*, 2010, **29**, 1174-1190.
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14. "The interconversion of oxo and imido ligands at a dimolybdenum centre: X-ray crystal structure of $[\text{Mo}(\eta\text{-C}_5\text{H}_4\text{Me})(\text{NPh})(\mu\text{-NPh})_2]$ ". M. L. H. Green, G. Hogarth, P. C. Konidaris, and P. Mountford, *J. Organomet. Chem.*, 1990, **394**, C9-C15.
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10. "Terminal substitution and cage incorporation of an η -cyclopentadienyl ring into boron cage structures; crystal structures of $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta\text{-C}_5\text{H}_4)\text{B}_4\text{H}_7]$ and $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta\text{-C}_3\text{H}_3)\text{C}_2\text{B}_9\text{H}_9]$ ". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, and P. Mountford, *J. Chem. Soc., Chem. Commun.*, 1989, 1397-1399.
9. "Half-sandwich compounds of zirconium (ii): the synthesis of $[\text{Zr}(\eta\text{-C}_7\text{H}_7)(\text{PMe}_3)_2\text{Cl}_2]$ ". M. L. H. Green, P. Mountford, and N. M. Walker, *J. Chem. Soc., Chem. Commun.*, 1989, 908-909.
8. "Formation of three-vertex metallaboranes from mono-borane precursors: X-ray crystal structures of $[\text{Mo}(\eta\text{-C}_5\text{H}_5)_2\text{H}(\eta\text{-B}_2\text{H}_5)]$ and $[\text{Ru}(\eta\text{-C}_5\text{Me}_5)(\text{PMe}_3)(\eta\text{-B}_2\text{H}_7)]$ ". P. D. Grebenik, M. L. H. Green, M. A. Kelland, J. B. Leach, P. Mountford, G. Stringer, N. M. Walker, and L-L Wong, *J. Chem. Soc., Chem Commun.*, 1988, 799-801.
7. "Reactions of α -thiocyanato- β -dicarbonyl compounds: A C-S-C + C-N route to thiazoles". R. G. Guy and P. Mountford, *Tetrahedron Lett.*, 1987, **28**, 117-120.

Patents

6. "Metal complex with a Lewis base ligand". M. A. Zuidelveld, R. T. W. Scott and P. Mountford, EP 2016/2801579.

5. "Titanium catalyst system comprising substituted cyclopentadienyl, guanidine and diene ligands." G. H. J. van Doremaele, M. A. Zuidelveld, V. Quiorga Norambuena, P. Mountford and R. Scott, WO 2012/130921.
4. "Borane activated titanium catalyst system comprising substituted cyclopentadienyl, guanidine and diene ligands." G. H. J. van Doremaele, M. A. Zuidelveld, V. Quiorga Norambuena, P. Mountford and R. Scott, WO 2012/130922.
3. "Ti catalyst system comprising substituted cyclopentadienyl, amidine and diene ligand". M. A. Zuidelveld, G. H. J. van Doremaele, P. Mountford, R. T. W. Scott and A. Heath. WO 2011/076775.
2. "Imine catalyst". E. G. Ijpeij and P. Mountford. WO 2008/148499.
1. "Process for the preparation of a polymer". M. Kranenburg, G. H. J. van Doremaele, B. Wing, M. A. Zuidelveld, N. H. Friederichs, S. C. Lawrence, S. R. Dubberley, P. Mountford. WO 2005/123790.

Leadership, management and administration

Chemistry Department, University of Oxford

As Head of Inorganic chemistry (2013-2016) and Acting Head of Inorganic Chemistry (2010-2011):

Responsibility for academic teaching and research activities and health and safety in the Inorganic Chemistry sub-department.

Day to day line-management of *ca.* 20 academic staff and *ca.* 6 technical and secretarial staff.

Responsibility for oversight and management of the departmental Inorganic NMR facilities, single crystal X-ray diffraction facilities and service, powder X-ray diffraction facilities, SQUID magnetometers facility.

Responsibility for oversight of the inorganic chemistry undergraduate teaching laboratories.

Member of the departmental senior management team responsible for all departmental operations, budget and activities.

As Executive Deputy Head of Inorganic chemistry (2008-2010 & 2011-2013):

Oversight of all day-to-day operations of the sub-department including responsibility for oversight and management of the departmental Inorganic NMR facilities and single crystal X-ray diffraction facilities. Member of the departmental senior management team responsible for all departmental operations, budget and activities from 2011-2013.

General service and duties:

Member of the Department of Chemistry Management Board (2010-2016); Chairman of the Inorganic Chemistry Departmental Committee (2013-2016); Chairman of the Inorganic Chemistry Safety Committee (2013-2016); Chairman of the Chemistry X-ray Service Committee (2011-2016); Chairman of the Inorganic Chemistry Staff Committee (previously vice-chairman) (2008-2016); Member of the Chemistry Joint Consultative (staff-student) Committee (1999-2001 and 2013-2016); Member of the Chemistry Department Research Board (2006-2008 and 2010-2016); Member and vice-chair of the Inorganic Chemistry Departmental Committee (2006-2013); Chemistry Department Research Excellence Framework (REF2014) working group (2012-2013); Chairman of the Inorganic Chemistry Joint Staff Committee (2008-2011); Member of the Inorganic Chemistry Safety Committee (2008-2013); Member of the Chemistry Research Laboratory Safety Committee (2008-2011); Member and/or Chairman of the Chemistry Department Merit Review Panel (2008, 2009, 2014); Departmental Harassment Adviser (2006-2009); Member of the Inorganic Chemistry Joint Staff Committee (2003-2008); Member of the Chemistry Management Committee (2003-2004); Chairman of the Chemistry Graduate Studies Committee (2003-2004); Director of Graduate Studies for Inorganic Chemistry (2002-2005); Member of the Chemistry Graduate Studies Committee (2002-2005); Chairman of the Chemistry Joint Consultative (staff-student) Committee (2001-2002); Member of the Chemistry NMR and X-ray facilities working group (2001-2002); Member of the Chemistry X-ray Service Committee (1999-2008); Member of the Chemistry Departmental Academic Committee (1999-2005); Member of the Inorganic Chemistry Laboratory Departmental Committee (1999-2005); Chairman and Coordinator of Chemistry Science Open Days (1999-2002).

Mathematical, Physical and Life Sciences Division, University of Oxford

Member of the Glasstone Benefaction Committee (2014-2018); Member of the Divisional Board (2010-2013 & 2015-2017), including Sub-Group for the Conferral of Associate Professor Title (2016); MPLS academic representative on the University "Prevent Duty" Steering Group (2016-2017); Member of the Divisional Finance Committee (2012-2015); Member of the Divisional Academic Committee (2003-2004); Member of the Divisional Graduate Studies Advisory Panel (2002-2006).

St Edmund Hall, Oxford

Member of the Governing Body (1998-date); Member and Secretary to the College Committee (2008-2011); Member of the Finance Committee (2008-2017); Member of the Disciplinary Committee (2005-2009); Senior Treasurer of the Amalgamated Clubs (2002-2007); Member of the Academic Committee (2002-2004); Member of the IT Committee (2001-2004).

Member of the Development Committee (2001-2002).

Doctorate, postdoctorate and undergraduate supervision

PhD students (11 current, 43 completed). 17 (underlined) went on to postdoctoral positions in the UK or overseas. 6 (marked with an asterisk) subsequently went on to academic or equivalent positions.

W. Diment (2017-date), D. Ryan (2017-date), A. McNeillis (2016-date), T. Scharbert (2015-date), M. Slusarczyk (2015-date), N. Viera-Reis (2015-date), N. Diteepeng (2014-date), K. Gamero-Vega (2014-date), S. Mellino (2014-2017), B. Xie (2014-date), A. Reyes-Sanchez (2013-date), R. Green (2013-date), B. A. Clough (2013-2016), R. A. Collins (2012-2016), H. Yin (2012-2016), L. C. Stevenson (2012-2015), B. Core (2011-2015), J. Unruangsri* (2010-2014), A. R. Russell (2010-2014), L. R. Groom (2010-2014), L. Saleh (2009-2014), M. P. Blake (2009-2013), R. T. W. Scott (2009-2013), L. Clark (2008-2012), A. D. Schofield (2008-2012), P-J. Tiong* (2008-2012), M. G. Cushion (2007-2011), A. D. Schwarz (2006-2010), A. Heath (2006-2011), J. D. Selby (2005-2009), H. E. Dyer (2004-2008), C. Wang (2004-2008), N. Hazari* (2003-2006), C. S. Tredget (2003-2007), H. R. Bigmore (2003-2007), P. D. Bolton (2002-2006), E. Hollis (2002-2008), C. L. Boyd (2001-2004), R. A. Whannel (2001-2005), B. R. Tyrrell (2000-2003), A. J. Sealey (2000-2004), A. E. Guiducci (1999-2002), B. D. Ward* (1999-2003), S. C. Lawrence (1999-2003), N. Adams* (1999-2004), S. M. Pugh (1996-1999), M. E. G. Skinner (1997-2001), S. R. Dubberley (1996-2000), P. J. Wilson* (1995-1999), P. E. Collier (1994-1998), P. J. Stewart (1994-1998), D. Swallow (1993-1997), S. C. Dunn (1992-1996), S. Wan (1992-1995).

Postdoctoral researchers (2 current, 25 completed). 9 of these (underlined) went on to independent academic positions.

B. Clough (SCG Chemicals (from 2017)), I. Yu (EPSRC), M. P. Blake (EPSRC then Leverhulme Trust), M. Hu (China Scholar Council), Y. Huang (China Scholar Council), A. D. Schwarz (EPSRC), A. Protchenko (Leverhulme Trust then EPSRC), J. D. Selby (EPSRC), Z. Chu (China Scholar Council), P. D. Bolton (John Fell Fund, Oxford), C. L. Boyd (EPSRC), F. Bonnet (Leverhulme Trust), C. M. Kozak (NSERC Canada), A. Hillier (Leverhulme Trust), B. D. Ward (Leverhulme Trust), S. R. Dubberley (EPSRC), T. Toupance (EC Marie Curie), Y. Li (China Scholar Council awardee), S. Y. Bylikin (Royal Society/NATO), D. A. Robson (Leverhulme Trust), A. G. Moody (EPSRC), N. A. H. Male (EPSRC), J. M. McInnes (EPSRC/Leverhulme Trust), S. Z. Vatsadze (Royal Society/NATO), D. Swallow (Leverhulme Trust), G. I. Nikonov (Royal Society/NATO), K. A. Butakoff (Royal Society/NATO).

Masters (Final year M.Chem.) students (3 current, 47 completed). 18 of these (underlined) went on to study for a Ph.D.

G. Beaumont (2017), A. Burningham (2017), C. Nesbitt (2017), W. Diment (2016), R. King (2016), H. Barrett (2016), P. Macdonald (2014), G. Schenk (2014), A. Walker (2014), A. Miller (2013), L. Budden (2013), A. Cooper (2013), Onn Chee (2011), L. Collins (2011), R. Collins (2011), H. Morgan (2010), N. Egan (2010), L. Groom (2009), G. Hilton (2009), J. Unruangsri (2009), N. Yong (2008), R. Scott (2008), A. Kilpatrick (2008), K. Herbert (2007), A. Clulow (2007), L. Clark (2007), A. D. Schofield (2007), G. Hayday (2006), C. Manley (2006), Z. Turner (2006), S. Ashdown (2005), J. Selby (2004), T. Parsons (2004), R. Howe (2004), C. Owen (2003), S. Simmonds-Gooding (2003), A. C. R. Croft (2002), G. Orde (2002), C. R. Wilson (2002), P. D. Bolton (2001), S. Evans (2001), T. Lowes (2001), N. Stacey (2001), C. Boyd (2000), T. J. Blundell (2000), M. Melville (2000), D. Cowhig (1999), J. Fletcher (1999), J. Gardner (1999), D. Willman (1999).