

## PROFESSOR STEPHEN GRAHAM DAVIES

- Address:** New College,  
University of Oxford, Mansfield Road, Oxford, OX1 3TA, U.K.  
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email: [steve.davies@chem.ox.ac.uk](mailto:steve.davies@chem.ox.ac.uk)
- URL:** <http://davies.chem.ox.ac.uk/home.aspx>
- Date of Birth:** 24.02.50 (Birmingham, UK) **Age:** 72
- Education:**
- School:** Berkhamsted 1963 - 1968
- University of Oxford B.A. Chemistry 1973  
Thesis entitled "Benzene Oxide and Related Compounds"  
D.Phil. 1975 (Supervisor: Dr G.H. Whitham)  
Thesis entitled "Studies on Epoxides"
- University of Paris D.Sc. (Docteur ès Sciences) 1980  
Thesis entitled "Contribution a La Chimie des Epoxydes"
- Honorary Degrees:**
- 2013 Doctor Honoris Causa, University of Salamanca, Spain  
(*The University of Salamanca is one of the oldest in the world and only awards three "Doctor Honoris Causa" per annum*)
- Positions Held:**
- 1975 - 1977 I.C.I. Postdoctoral Fellow, Dept. of Inorganic Chemistry, Oxford.  
(Professor M.L.H. Green, FRS)
- 1977 - 1978 N.A.T.O. Postdoctoral Fellow, I.C.S.N., C.N.R.S., Gif-sur-Yvette,  
Paris. (Professor Sir Derek Barton, FRS)
- 1978 - 1980 Attache de Recherche, C.N.R.S., I.C.S.N., C.N.R.S., Gif-sur-Yvette, Paris
- 1980 - 1996 Lecturer in Organic Chemistry, Dyson Perrins Laboratory, Oxford.  
Fellow of New College, Oxford
- 1996 - 2004 Professor of Chemistry, Dyson Perrins Laboratory, Oxford  
Fellow of New College, Oxford
- 2004 - 2006 Professor of Chemistry, Chemistry Research Laboratory, Oxford  
Fellow of New College, Oxford
- 2006 - 2020 Waynflete Professor of Chemistry, University of Oxford  
Fellow of Magdalen College, Oxford (*The Waynflete Chair is the oldest and only named chair in Organic Chemistry at Oxford*)
- 2006 - 2011 Chairman of Chemistry, University of Oxford  
(*Full responsibility for all teaching, research, financial and managerial matter for one of the largest Chemistry Departments in the world*)

2020 - Waynflete Professor Emeritus, University of Oxford  
Extraordinary Lecturer, New College, Oxford

### Awards:

1984: Hickinbottom Fellowship  
1985: Pfizer Award for Chemistry  
1986: Corday Morgan Medal (1984): Royal Society of Chemistry  
1987: Royal Society of Chemistry Award for Organometallic Chemistry  
1988: Pfizer Award for Chemistry  
1989: Royal Society of Chemistry Bader Award  
1996: Tilden Lecture Award, Royal Society of Chemistry  
1997: Royal Society of Chemistry Award in Stereochemistry  
1998: Prize Lectureship of the Society of Synthetic Organic Chemistry, Japan  
2008: Distinguished Technopreneur Award, Singapore  
2011: Royal Society of Chemistry Perkin Prize for Organic Chemistry  
2021: Royal Society London Mullard Award

**Publications:** 625 publications (h index 64, 18229 cites, October 2022)

**URL for publications:** <http://davies.chem.ox.ac.uk/publications.aspx>

### Membership of Committees

1986 -1992 Society of the Chemical Industry: Fine Chemicals Committee  
1990 -1993 Society of the Chemical Industry: Awards and Academic Relations Committee  
1987 -1990 Royal Society of Chemistry: Perkin Council  
1988 -1991 SERC - Organic Chemistry Subcommittee  
1991 -1992 SERC - Clean Technology Directorate  
1991 -1992 EPSRC Clean Technology Panel  
1994 -1995 Academic Secretary, Sub-Faculty of Chemistry.  
1994 -1995 Physical Sciences Board, Oxford University  
1995 - 2000 Technology Transfer Advisory Group, Oxford University.  
1998 - 2010 Conflict of Interest Committee, Oxford University.  
1997 - 2020 RSC Oxford/Cambridge International Synthesis Meeting Organising Committee  
(Chair 2001, 2005, 2009, 2013 and 2017)  
2000 - 2020 Intellectual Property Advisory Group, Oxford University  
2002 - 2014 Board of Electors of the Newton Abraham Visiting Professorship  
2006 – 2007 Medical Sciences Divisional Board  
2006 - 2011 MPLS Divisional Board  
2006 - 2011 MPLS General Purposes Committee  
2006 - 2010 Begbroke Science Park Strategy Group

### Editorial Appointments

1989 - 1992	J. Chem. Soc. Perkin Transactions:	Editorial Board Member
1989 -	"Oxford Chemistry Primers", OUP	Founding Editor and Editor of Organic Series
1995 -	"Oxford Chemistry Masters", OUP	Founding Editor and Editor of Organic Series
1990 - 2017	Tetrahedron:	Executive Editorial Board Member
1990 - 2017	Tetrahedron: Asymmetry	Founder and Editor in chief
2005 -	"On Chemistry" Books	Editor

## Companies Founded and Directorships

- 1992 - 1998 Oxford Asymmetry Limited; Founder and Director  
(*Asymmetric Synthesis*)
- 1995 - 1998 Oxford Diversity Limited; Founder and Research Director  
(*Combinatorial Chemistry*)
- 1998 - 2000 Oxford Asymmetry International plc; Founder and Director  
(*Drug Discovery Services*)
- 2003 - 2004 VASTox Limited; Founder and Non-executive Chairman  
(*Orphan Drug Discovery*)
- 2004 - 2006 VASTox plc; Founder and Non-executive Chairman  
(*Orphan Drug Discovery*)
- 2004 - SciInk Limited; Founder and Non-executive Chairman  
(*Not for profit Undergraduate text publisher*)
- 2006 - 2013 Summit Corporation plc (formerly VASTox plc); Founder and Non-executive Director  
(*Pharmaceuticals*)
- 2006 - 2009 Oxray Limited; Founder and Non-executive Director  
(*Crystallography Software Developer*)
- 2011 - OxStem Limited; Founder and Non-executive Director  
(*Regenerative Medicine via endogeneous control of cell differentiation*)
- 2011 - 2014 MuOx Ltd. (Acquired by Summit Therapeutics plc); Founder and Non-executive Chairman  
(*Drug Discovery for Orphan Muscle Diseases*)
- 2014 - 2018 Summit Therapeutics plc; Non-executive Director  
(2003 London AIM SUMT; 2015 NASDAQ SUMM)  
(*Drug Development for Duchenne Muscular Dystrophy and Antibiotic against Clostridium difficile*)
- 2017 - 2022 Oxstem Neuro Ltd., Oxstem Cardio Ltd., Oxstem Ocular Ltd., Oxstem Oncology Ltd., Oxstem Beta Ltd. and Oxstem Immuno Ltd. (*Regenerative Medicine*)
- 2021 - Raphael Laboratories Ltd.; Founder and Non-executive Director  
(*Prophylactics against viral respiratory infections*)

## Directorships:

- 2007 - 2009 Oxeco plc; Non-executive Director  
(*IP commercialisation*)
- 2008 - 2021 Oxford University Innovation plc; Non-executive Director  
(*Oxford University's IP commercialisation company*)
- 2010 - 2011 Scientific Research Capital Limited; Non-executive Chairman  
(*IP commercialisation*)
- 2018 - Verivin Ltd. Non-executive Director (*Non-invasive wine, urine and blood analysis*)

## STEPHEN G. DAVIES – PUBLICATIONS LIST

1. *trans*-Cycloalkenes. Part IV. Some aspects of the chemistry of *trans*-cyclo-octene  
K. T. Burgoine, **S. G. Davies**, M. J. Peagram and G. H. Whitham, *J. Chem. Soc., Perkin Trans. 1*, **1974**, 2629
2. Carbon-13 nuclear magnetic resonance spectra of some epoxides  
**S. G. Davies**, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 2*, **1975**, 861
3. A convenient synthesis of  $\beta,\gamma$ -unsaturated carboxylic acids and esters. The isomeric 5-t-butylcyclohex-2-enecarboxylic acids  
**S. G. Davies**, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 1*, **1976**, 2279
4. Inorgano-Grignard Reagents: Preparation, Reactions and X-ray Crystal Structure of Bis-( $\eta$ -cyclopentadienyl)-hydridomolybdenum[bromo(bis-tetrahydrofuran)magnesium]  
**S. G. Davies**, M. L. H. Green, K. Prout, A. Coda and V. Tazzoli, *Chem. Commun.*, **1977**, 135
5. Stereoselectivity in the Epoxidation of  $\beta,\gamma$ -Unsaturated Carboxylic Acids  
**S. G. Davies**, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 1*, **1977**, 572
6. Benzene Oxide-Oxepin. Oxidation to Muconaldehyde  
**S. G. Davies**, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 1*, **1977**, 1346
7. *trans*-Cycloalkenes Part 7. Variable Temperature  $^{13}\text{C}$  Nuclear Magnetic Resonance Studies on *cis,trans*-Cyclo-octa-1,5-diene and Related Compounds  
**S. G. Davies**, P. F. Newton, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 2*, **1977**, 1371
8. Rules for Predicting the Regioselectivity of Nucleophilic Attack on 18-Electron Organotransition Metal Cations Containing Polyene Ligands  
**S. G. Davies**, M. L. H. Green, D. M. P. Mingos, *Nouveau Journal de Chimie*, **1977**, 1, 445
9. Photoinduced Synthesis of Binuclear Molybdenocene and Tungstenocene Derivatives: Catalytic Deoxygenation of Epoxides by Metallocenes  
M. Berry, **S. G. Davies**, M. L. H. Green, *J. Chem. Soc., Chem. Commun.*, **1978**, 99
10. Nucleophilic addition to organotransition metal cations containing unsaturated hydrocarbon ligands: a survey and interpretation  
**S. G. Davies**, M. L. H. Green, D. M. P. Mingos, *Tetrahedron*, **1978**, 34, 3047
11. Inorgano-Grignard Reagents. Preparations and Reactions of [Bromobis(tetrahydrofuran)-magnesium]bis( $\eta$ -cyclopentadienyl)-hydridomolybdenum.  
**S. G. Davies**, M. L. H. Green, *J. Chem. Soc., Dalton*, **1978**, 1510
12. Indane 3a,4-Oxide: Formation by Isomerisation of Indane-3a,7a-Oxide and Confirmation of Structure by an Alternative Synthesis.  
**S. G. Davies**, G. H. Whitham, *J. Chem. Soc., Perkin Trans. 1*, **1978**, 1479
13. Chromium Hexacarbonyl Isomerisation of Ergosterol and Related Dienes  
D. H. R. Barton, **S. G. Davies**, W. B. Motherwell, *Synthesis*, **1979**, 265
14. Stepwise Oxidative Decarbonylations of Organometallic Cations of Iron.  
**S. G. Davies**, *J. Organometal. Chem.*, **1979**, 179, C5
15. Thermally Induced Formation of Neoergosteryl Benzoate and Ergosta-8(14)-22-dienyl Benzoate from Ergosteryl Benzoate Iron Tricarbonyl.  
A. F. Mateos, **S. G. Davies**, *Anales de Quimica*, **1979**, 75, 385
16. Hydride Reduction of the Cation  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{triphos})]\text{PF}_6$ : Direct Nucleophilic Attack on the Metal and Hydrogen Exchange in the Product Hydride  $(\eta^5\text{-C}_5\text{H}_5)\text{FeH}(\text{triphos})$ . (triphos =  $\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPhCH}_2\text{CH}_2\text{PPh}_2$ )  
**S. G. Davies**, H. Felkin, O. Watts. *Chem. Commun.*, **1980**, 159
17. Chemistry of  $(\eta^5\text{-C}_5\text{H}_5)\text{Ru}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{Cl}$ : Preparation of Cationic Ruthenium Olefin Complexes.  
**S. G. Davies**, F. Scott, *J. Organometal. Chem.*, **1980**, 188, C41

18. Synthesis of 10 (*S*)-Methyl-Codeine and 10 (*S*)-Methyl-Morphine  
H. B. Arzeno, D. H. R. Barton, **S. G. Davies**, X. Lusinchì, B. Meunier, C. Pascard, *Nouveau J. Chimie*, **1980**, 4, 369
19. Synthesis and Reactions of Alkyl- and Aryl-substituted Metallacyclobutane Derivatives of Molybdenum and Tungsten  
G. A. Adam, **S. G. Davies**, M. Ephritikine, K. A. Ford, M. L. H. Green, P. F. Todd, *J. Molecular Catal.*, **1980**, 8, 15
20. Epoxide Opening with Organocuprates and Grignard Reagents in the Presence of Chiral Ligands  
**S. G. Davies**, S. Wollowitz, *Tetrahedron Lett.*, **1980**, 21, 4175
21. Hydride Reduction of the Cations  $\{(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2)_3\text{CMe}\}\text{PF}_6$ ,  $\{(\eta^5\text{-C}_5\text{H}_5)\text{Ru}[(\text{Ph}_2\text{PCH}_2\text{CH}_2)_2\text{-PPh}]\}\text{PF}_6$  and  $\{(\eta^5\text{-C}_5\text{H}_5)\text{Ru}[(\text{Ph}_2\text{PCH}_2)_3\text{CMe}]\}\text{PF}_6$ : Regioselectivity and Mechanism  
**S. G. Davies**, H. Felkin, T. Fillebeen-Khan, F. Tadj, O. Watts, *Chem. Commun.*, **1981**, 341
22. Stereochemical and Mechanistic Aspects of the Nickel Complex Catalysed Formation of Olefins from Allylic Alcohols and Grignard Reagents.  
H. Felkin, M. Joly-Goudket, **S. G. Davies**, *Tetrahedron Lett.*, **1981**, 22, 1157
23. Reactivity of the Inorgano-Grignard  $(\eta^5\text{-C}_5\text{H}_5)(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{FeMgBr}$  Towards Halogenogermanes.  
N. Aktogu, **S. G. Davies**, J. Dubac, P. Mazerolles, *J. Organomet. Chem.*, **1981**, 212, C13
24. Asymmetric Synthesis in the Nickel Complex Catalysed Formation of Olefins from Allyl Alcohols and Grignard Reagents.  
M. Cherest, H. Felkin J. D. Umpleby, **S. G. Davies**, *Chem. Commun.*, **1981**, 681
25. Intramolecular General Acid Catalysis in the Binding Reactions of  $\alpha_2$ -Macroglobulin and Complement Components C3 and C4  
**S. G. Davies**, R. B. Sim, *Bioscience Reports*, **1981**, 1, 461
26. 2-Substituted Bicyclo[3. 1.0]hexanes: Determination of Stereochemistry.  
**S. G. Davies**, *J. Chem. Res. S.*, **1982**, 197
27. Hydride reduction of the cation  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{CO}]\text{PF}_6$ ; formation of  $(\eta^5\text{-C}_5\text{H}_5)\text{FeH}(\text{CO})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$  and elimination of  $\text{H}_2$  from  $[(\eta^5\text{-C}_5\text{H}_5)\text{FeH}(\text{CO})]_2(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$   
**S. G. Davies**, J. Hibberd, S. J. Simpson, O. Watts *J. Organomet. Chem.*, **1982**, 238, C7
28. Organotransition Metal Chemistry: Applications to Organic Synthesis.  
**S. G. Davies**, Pergamon Press, Nov. **1982**, 1
29. Preparation and Reactivity of the Anion  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})(\text{PPh}_3)(\text{COCH}_2)]\text{Li}$ .  
N. Aktogu H. Felkin, **S. G. Davies**, *Chem. Commun.*, **1982**, 1303
30. Evidence for the Iron Formyl  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)(\text{CHO})$ .  
**S. G. Davies**, S. J. Simpson, *J. Organomet. Chem.*, **1982**, 240, C48
31. Disproportionation of the Iron Carbonyl Hydride  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})\text{H}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$  to the Iron Methyl  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{Me}$   
**S. G. Davies**, J. Hibberd, S. J. Simpson, *Chem. Commun.*, **1982**, 1404
32. Hydride Reduction of the Cation  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{CO}]\text{PF}_6$ ; Formation of  $(\eta^5\text{-C}_5\text{H}_5)\text{-FeH}(\text{CO})(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$  and Elimination of  $\text{H}_2$  from  $[(\eta^5\text{-C}_5\text{H}_5)\text{FeH}(\text{CO})]_2(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)$   
**S. G. Davies**, J. Hibberd, S. J. Simpson, O. Watts, *J. Organomet. Chem.*, **1983**, 241, C31
33. Fragmentation of  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})(\text{PPh}_3)(\text{COCH}_2\text{COR})$  Complexes to the Cation  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{CO})_2\text{-}(\text{PPh}_3)]^+$   
**S. G. Davies**, O. Watts, N. Aktogu, H. Felkin, *J. Organometal. Chem.*, **1983**, 243, C51
34. Regioselectivity of Hydride Addition to  $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{CO}]\text{PF}_6$  and Rearrangement of  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)(\text{CO})\text{H}$  to  $(\eta^4\text{-C}_5\text{H}_6)\text{Fe}(\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2)\text{CO}$   
**S. G. Davies**, J. Hibberd, S. J. Simpson, *J. Organometal. Chem.*, **1983**, 246, C16
35. Electron-rich Cations: Preparation and Hydride Reductions of the Cations  $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)\text{-}[\text{PhP}(\text{CH}_2\text{CH}_2\text{PPh}_2)_2]]^+$ ,  $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)[\text{MeC}(\text{CH}_2\text{PPh}_2)_3]]^+$  and  $[\text{Fe}(\eta^5\text{-C}_5\text{H}_5)[\text{C}(\text{CH}_2\text{-PPh}_2)_4]]^+$   
**S. G. Davies**, S. J. Simpson, H. Felkin, F. Tadj, O. Watts, *J. Chem. Soc., Dalton*, **1983**, 981

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