

Conference and invited talks

1. *New Directions in Transition Metal Boryl Chemistry*. MICRA 2000, University of Exeter, September 2000.
2. *New Directions in Transition Metal Boryl Chemistry*. Intraboron Meeting, University of Bath, August 2000.
3. *π -Bonding in Transition Metal Boryl Complexes*. Invited talk to the RSC Coordination Chemistry Discussion Group Meeting, University of York, July 2001.
4. *Boryl and Borylene Complexes of Iron and Manganese*. South West Regional Meeting of the Dalton Division, University of Bath, April 2002.
5. *Boryl and Borylene Complexes of Iron and Manganese*. International Conference on Organometallic Chemistry, Corfu, July 2002.
6. *Boryl and borylene complexes of iron and manganese*. Invited talk given at the 224th ACS Meeting, Boston, USA, September 2002.
7. *Boryl and Borylene Complexes of Iron and Manganese*. MICRA 2002, Cardiff University, September 2002.
8. *Boranes, Boryls and Borylenes: Lewis Acids in Transition Metal Chemistry*. Invited talk at University College London, October 2002.
9. *Boranes, Boryls and Borylenes: Lewis Acids in Transition Metal Chemistry*. Invited talk at the University of Southampton, November 2002.
10. *New Boron-containing Lewis Acids: Fluoride Ion Sensing by Multi- and Monodentate Species*. South West Regional Meeting of the Dalton Division, University of Exeter, April 2003.
11. *Carbene Analogues: Synthesis of an Fe=B Double Bond*. Dalton Division, Chemistry of Groups 13, 14 and 15 Meeting, King's College London, May 2003.
12. *Boranes, Boryls and Borylenes: Lewis Acids in Transition Metal Chemistry*. Invited talk at the University of Bath, November 2003.
13. *Transition Metal - Group 13 Element Multiple Bonds*. Invited talk to the 6th Anglo-Dutch Conference on Organometallic Chemistry and Catalysis, Cardiff School of Chemistry, April 2004.
14. *Chemistry of Cationic Terminal Diyl Complexes*. Invited talk to the Dalton Division, Coordination Chemistry Discussion Group Meeting, University of Leicester, July 2004.
15. *Chemistry of Cationic Terminal Diyl Complexes*. 36th International Coordination Chemistry Conference, Merida, Mexico, July 2004.
16. *Chemistry of Cationic Terminal Diyl Complexes*. Invited talk to the 3rd European Conference on Boron Chemistry, Pruhonice, Czech Republic, September 2004.
17. *Cationic Terminal Diyl Complexes - Multiple Bonding between Transition Metals and Group 13 Elements?* Invited talk at the University of Oxford, November 2004.
18. *Cationic Terminal Diyl Complexes - Multiple Bonding between Transition Metals and Group 13 Elements?* Invited talk at the University of Bristol, November 2004.
19. *Cationic Terminal Diyl Complexes - Multiple Bonding between Transition Metals and Group 13 Elements?* Invited talk at the University of Reading, January 2005.
20. *Unique chemistries for the detection of chemical warfare agents*. Invited talk at the Home Office Police Scientific Development Branch (PSDB), Sandridge February 2005.
21. *Cationic Terminal Diyl Complexes - Multiple Bonding between Transition Metals and Group 13 Elements?* Invited talk at RSC one-day meeting, University of Southampton, April 2005.
22. *Anion and Whole Acid Binding for the Detection of Chemical Warfare Agents*. McCamley Memorial Lecture, University of York, June 2005.
23. *Cationic Terminal Diyl Complexes - Multiple Bonding between Transition Metals and Group 13 Elements?* Keynote lecture to the 12th International Conference on Boron Chemistry, Sendai, September 2005.
- 24-26. *Transition metal – group 13 element multiple bonds*. Invited talks at the Universities of Tübingen, Würzburg and Frankfurt, January 2006.
27. *Transition metal – group 13 element multiple bonds*. Invited talk at Heriot Watt University, February 2006.
28. *Anion and Whole Acid Binding for the Detection of Chemical Warfare Agents*. Invited talk at the EPSRC Crime Prevention and Technologies Event, London, March 2006.
29. *Transition metal – group 13 element multiple bonds*. Invited talk at Oxford University, May 2006.
30. *Transition metal – group 13 element multiple bonds*. Invited talk at Bristol University, July 2006.
31. *Transition metal – group 13 element multiple bonds*. Invited talk at Durham University, July 2006.

32. *Group 13 analogues of classical organometallic ligand systems*. Invited presentation at the 'Transatlantic Frontiers in Chemistry' joint RSC, ACS, GDCh Symposium, University of New Hampshire, August 2006.
33. *Lewis acids for anion and neutral molecule sensing*. Invited talk at the 232nd ACS Meeting, San Francisco, USA, September 2006 – symposium titled 'Polyfunctional organoboranes - from molecules to materials.'
34. *Transition metal – group 13 element multiple bonds*. Invited talk at the University of Notre Dame, USA, September 2006.
35. *Transition metal – group 13 element multiple bonds*. Invited talk at the University of California Davis, USA, September 2006.
36. *Transition metal – group 13 element multiple bonds*. Invited talk given at Imperial College, London, March 2007.
37. *Transition metal – group 13 element multiple bonds*. Invited talk given at the University of Wales, Bangor, April 2007.
38. *Group 13 analogues of carbenes, vinylidenes and CO*. Invited talk given at the 4th European Conference on Boron Chemistry, Bremen, Germany, September 2007.
39. *Group 13 analogues of classical organometallic ligands*. Invited talk given at the University of Oxford, October 2007.
40. *Group 13 analogues of classical organometallic ligands*. Invited talk given at the University of Nottingham, October 2007.
41. *Chemical sensors for chemical warfare agents*. Invited talk given at 'Nanotechnology for Security and Crime Prevention III,' The Royal Society, London, January 2008.
42. *Group 13 analogues of classical organometallic ligands*. Invited talk given at the University of Sussex, March 2008.
43. *Group 13 analogues of classical organometallic ligands*. Invited talk given at the Anglo-German International Conference on Inorganic Chemistry, Cardiff, April 2008
44. *Group 13 analogues of classical organometallic ligands*. Invited talk given at Texas Christian University, June 2008.
45. *Group 13 analogues of classical organometallic ligands*. Invited talk given at Texas A and M University, June 2008.
46. *Group 13 analogues of classical organometallic ligands*. Invited (plenary) lecture given to the RSC Main Group Chemistry Meeting, Bristol, September 2008.
47. *Group 13 analogues of classical organometallic ligands*. Invited (plenary) lecture given to the 13th International Conference on Boron Chemistry, Platja D'Aro, Spain, September 2008.
48. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the Université Paul Sabatier, Toulouse, France, October, 2008.
49. *Cyanide and fluoride ion detection by ferrocene derivatized Lewis acids*. Invited lecture given to the RSC Macrocycles and Supramolecular Chemistry Group, University of Birmingham, December 2008.
50. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the University of Edinburgh, January 2009.
51. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the University of Newcastle, March 2009.
52. *Coordination chemistry of Group 13 monohalides*. Invited lecture given at the 237th ACS Meeting, Salt Lake City, USA, March 2009.
53. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the RSC Dalton Transactions Symposium, Shanghai, China, October 2009.
54. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the RSC Dalton Transactions Symposium, Nanjing, China, October 2009.
55. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at the 2nd Asian Coordination Chemistry Conference, Nanjing, China, November 2009.
56. *Group 13 analogues of classical organometallic ligands*. Invited lecture given at Leeds University, December 2009.
57. *Chemical sensors for chemical warfare agents*. Invited lecture given at the Institute of Nanotechnology Conference 'Converging Technologies for 21st Century Security', Royal College of Physicians, London, November 2009.
58. *Strong Lewis acids in Main Group and Transition Metal Chemistry: fundamentals and applications*. Invited lecture given at Glasgow University, March 2010.
59. *Group 13 analogues of classical organometallic ligands*. Invited plenary (conference opening) lecture given at the 5th European Conference on Boron Chemistry, Edinburgh, August 2010.

60. *Coordination and activation of B-H bonds in amineboranes at late transition metal centres*. Invited lecture given at the Joint SWRM/ SERMACS Regional ACS Meeting, New Orleans, December 2010.
61. *Cationic terminal borylene complexes: synthetic, structural and reaction chemistry*. Invited lecture given at the PACIFICHEM 2010 Meeting, Honolulu, December 2010.
- 62-64. *Group 13 analogues of classical organometallic ligands*. Invited lectures given at Queen's University Belfast, the University of Manchester and University College London as part of RSC Main Group Chemistry award 2009/10, December 2010-March 2011.
- 65-67. *Group 13 analogues of classical organometallic ligands*. Invited lectures given at the Universities of Bochum, Düsseldorf and Münster, July 2011.
68. *Coordination and activation of aminoboranes*. Invited lecture given to the RSC Coordination Chemistry Discussion Group Meeting, University of East Anglia, July 2011.
69. *Coordination and activation of aminoboranes*. Invited lecture given to the biennial meeting of the Royal Society of Chemistry of Spain (RSEQ), Valencia, July 2011.
70. *Coordination and activation of aminoboranes*. Invited lecture given at the University of Cambridge, October 2011.
71. *Coordination and activation of E-H bonds at Main Group and Transition Metal centres*. Invited lecture given at the University of Bath, April 2012.
72. *Boryl ligands: activation or bespoke innocent donors?* Invited lecture given at Karlsruhe Institute of Technology, June 2012.
73. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the ISACS 8 meeting, Toronto, Ontario, July 2012.
74. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the IRIS 13 meeting, Victoria, British Columbia, July-August 2012.
75. *Coordination and activation of B-H bonds*. Invited lecture given at LaTrobe University, October 2012.
76. *Coordination and activation of B-H bonds*. Invited lecture given at Monash University, November 2012.
77. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the Australian National University, November 2012.
78. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at Freie Universität Berlin, January 2013.
79. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the Peter Timms Symposium, University of Bristol, February 2013.
80. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the joint Chem. Comm. / Dalton Transactions Symposium, Regensburg, Germany, March 2013.
81. *E-H bond activation by Main Group systems*. Invited lecture given at Trinity College, Dublin, March 2013.
82. *Exploitation of boryl substituents for the stabilization of novel sub-valent Main Group systems*. Invited lecture given at the Canadian Chemistry Conference, Quebec, May 2013.
83. *Stabilization of 5- and 6-valence electron species: designing Main Group molecules for bond activation*. Invited lecture given at the Universities of Scotland Inorganic Conference (USIC), Edinburgh, July 2013.
84. *Stabilization of 5- and 6-valence electron species: designing Main Group molecules for bond activation*. Invited lecture given at UEA, Norwich, October 2013.
85. *Stabilization of 5- and 6-valence electron species: designing Main Group molecules for bond activation*. Invited lecture given at Albert-Ludwigs-Universität Freiburg, February 2014.
86. *Stabilization of 5- and 6-valence electron species: designing Main Group molecules for bond activation*. Invited lecture given at the University of Strathclyde, Glasgow, February 2014.
87. *Radicals, E-H bond activation and nanoparticles: tuning Main Group elements to behave as Transition Metals*. Invited lecture given at Georg-August-Universität Göttingen, April 2014.
88. *Radicals, E-H bond activation and nano-particles; tuning main group elements to behave as transition metals*. Invited lecture given as Distinguished Lecturer, Hong Kong Baptist University, Hong Kong, July 2014.
89. *New approaches to bond activation*. Invited lecture given as Distinguished Lecturer, Hong Kong Baptist University, Hong Kong, July 2014.
90. *Radicals, E-H bond activation and nano-particles; tuning main group elements to behave as transition metals*. Invited lecture given at the Chinese University of Hong Kong, Hong Kong, July 2014.
91. *Boryl ligands: bespoke donors for the stabilization of unsaturated Main Group complexes*. Invited lecture given at the 41st International Conference on Coordination Chemistry (ICCC-41), Singapore, July 2014.

92. *Radicals, E-H bond activation and nano-particles; tuning main group elements to behave as transition metals*

Invited lecture given at EPFL Lausanne, August 2014

93. *Boryl ligands: bespoke donors for the stabilization of unsaturated Main Group complexes*. Invited lecture given at the 15th International Meeting on the Chemistry of Boron (IMEBORON XV), Prague, August 2014.

94. *Radicals, nanoparticles and E-H bond activation: tuning Main Group elements to behave as Transition Metals*. Invited lecture given at Chuo University, Japan, September 2014.

95. *New approaches to E-H bond activation using non-transition elements*. Invited lecture given at 2nd UK/Japan Symposium, Tokyo, Japan, September 2014.

96. *New approaches to E-H bond activation using non-transition elements*. Plenary lecture given at IRIS-14, Regensburg, Germany, July 2015.

97. *New approaches to E-H bond activation and catalysis*. Invited lecture given to the UK Catalysis Hub Winter Conference, November 2015.

98. *Designing and exploiting frustrated Lewis pairs for reversible small molecule capture and activation*. Invited lecture given at 251st meeting of the American Chemical Society, San Diego, USA, March 2016.

99. *Bond activation by highly reactive low valent germanium complexes*. Lecture given at 251st meeting of the American Chemical Society, San Diego, USA, March 2016.

100. *Bond activation by highly reactive low valent germanium complexes*. Invited lecture given at the Dalton 2016 Inorganic Chemistry Meeting, Warwick, March 2016.

101. *Main group systems for redox-based bond activation and functionalization*. Keynote lecture given to the 27th International Conference on Organometallic Chemistry (ICOMC), Melbourne, Australia, July 2016.

102. *Enabling and harnessing unusual reactivity in germanium and tin boryl complexes*. Invited lecture given at the Chemistry of Germanium, Tin and Lead Meeting, Pardubice, Czech Republic, August 2016.

103. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at the New Frontiers in Inorganic Chemistry: UK-China Perspectives meeting, Shanghai, China, September 2016.

105. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at the University of Toronto, December 2016.

106. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at the University of California Los Angeles, January 2017.

107. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at the University of Bristol (Gordon Stone Symposium), January 2017.

108. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at the University of Newcastle, March 2017.

109. *Snapshots in the coordination and activation of E-H bonds (E = B, Al, Ga) at transition metal centres*. Lecture given at ISACS: Challenges in Inorganic Chemistry, University of Manchester, April 2017.

110. *Exploitation of the boryl ligand class in Main Group chemistry*. Keynote lecture given at IMEBORON16, Hong Kong, July 2017.

112. *Designing main group systems for small molecule activation and functionalization*. Plenary lecture given at 3rd Singapore Inorganic Chemistry Symposium (SICS 2017), National University of Singapore, July 2017.

113. *Designing main group systems for small molecule activation and functionalization*. Invited lecture given at AGICHEM 2017, Göttingen, August 2017.

114. *Bond activation by hypovalent group 13 and 14 metal complexes*. Invited lecture given at 'Perspectives in Hypovalent Chemistry' Rheinische Friedrich-Wilhelms-Universität Bonn, October 2017.

115-120. *New perspectives in small molecule activation using low valent Main Group compounds*. Invited lectures given at Universitat Jaume I (Castellon), Universitat Rovira i Virgili (Tarragona), Universidad de Zaragoza, Universidad de Sevilla, Universidad de Castilla La Manchà (Ciudad Real) and Universidad de Alcalá as part of GEQO/RESQ lecture tour, March 2018.

121. *Non-conventional approaches to bond activation and catalysis*. Invited lecture given at LIKAT, Rostock, May 2018.

122. *Non-conventional approaches to bond activation using main group compounds*. Invited lecture given to Catalysis CDT, Cardiff University, June 2018.

123. *Synthesis, structural and reaction chemistry of novel silylene compounds*. Plenary lecture at 9th European Silicon Days meeting, Saarbrücken, September 2018.

124. *New perspectives in small molecule activation using low valent main group compounds*. Frankland Award Lecture, Southern Regional Dalton Meeting, Royal Society of Chemistry, London, September 2018.

125. *Novel bond activation processes exploiting main group metals*. Frankland Award Lecture, Royal Society of Chemistry, University of Bath, November 2018.
126. *Bond activation by group 13 and 14 systems*. Invited lecture given to CHAINS2018 conference (Dutch inorganic chemistry meeting), Eindhoven, December 2018
127. *Turning aluminium chemistry on its head: reactivity patterns of aluminyl nucleophiles*. Invited lecture given at 'Frontiers in Main Group Chemistry' symposium, University of Amsterdam, December 2018.
128. *Small molecule activation using main group compounds: Turning aluminium chemistry on its head*. Invited lecture given at Philipps-Universität Marburg, January 2019.
128. *Small molecule activation using main group compounds: Turning aluminium chemistry on its head*. Invited lecture given at Université Paul Sabatier Toulouse, January 2019.
130. *Turning aluminium chemistry on its head: Making and breaking C-C bonds with an aluminyl nucleophile*. Frankland Award Lecture, Royal Society of Chemistry, University of Edinburgh, February 2019.
131. *New perspectives in small molecule activation using low valent main group compounds*. Frankland Award Lecture, Royal Society of Chemistry, Open University, March 2019.
132. *Turning aluminium chemistry on its head: Making and breaking C-C bonds with an aluminyl nucleophile*. Invited lecture, International Conference on Heteroatom Chemistry, Prague, June 2019.
133. *New perspectives in small molecule activation using low valent main group compounds*. MChG invited lecture, TU Munich, November 2019.
134. *New perspectives in small molecule activation using low valent main group compounds*. Plenary lecture, PBSI Conference, Rome, December 2019.
135. *New perspectives in small molecule activation using low valent main group compounds*. XIII International School on Organometallic Chemistry 'Marcial Moreno Mañas,' Santiago de Compostela, June 2020 (postponed to June 2022 due to COVID-19 outbreak).
136. *Small molecule activation by silylene and aluminyl compounds*. International Symposium on Silicon Chemistry, Toulouse, July 2020 (held online due to COVID-19 outbreak).
137. *New perspectives in small molecule activation using low valent main group compounds*. International Conference on Coordination Chemistry, Rimini, July 2020 (postponed to September 2022 due to COVID-19 outbreak).
138. *New perspectives in small molecule activation using group 13 nucleophiles*. International meeting on Boron Chemistry (IMEBORON-17), Rennes, July 2020 (postponed to July 2023 due to COVID-19 outbreak).
139. *Making and breaking chemical bonds with electron rich Main Group compounds*. GDCh Wöhlentagung (German Chemical Society Inorganic Chemistry Meeting), Köln, September 2020 (held online due to COVID-19 outbreak).
140. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at Dalhousie University, Halifax, Nova Scotia, October 2021 (held online due to COVID-19 outbreak).
141. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at University of Helsinki, Finland, February 2022.
142. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at Cardiff University, February 2022 (held online due to COVID-19 outbreak).
143. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at Sheffield University, March 2022 (held online due to COVID-19 outbreak).
144. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at Albert-Ludwigs-Universität Freiburg, July 2022.
145. *C-X bond activation (X = H, C, O, F) using electron-rich anionic aluminium(I) compounds*. Lecture given to the Midwest Regional Meeting of the American Chemical Society, Iowa City, IA, United States, October 2022.
146. *Making and breaking chemical bonds with electron rich Main Group compounds*. Invited lecture given at Nankai University (online), October 2022.
147. *Harvesting and delivering fluoride via molecular complexes of the Group 2 metals*. RSC Fluorine interest group PG meeting, Oxford, April 2023.
148. *Boryl and Boryloxy ligands in Main Group chemistry*. Keynote lecture at International Meeting on Boron Chemistry, Rennes, July 2023.
149. *Engineering novel patterns of germylene and stannylene reactivity*. Keynote lecture at the Chemistry of Germanium, Tin and Lead Meeting, Wellington New Zealand, August 2023.
150. *Unleashing new patterns of chemical reactivity with electron rich Main Group compounds* Keynote lecture at European Organometallic Meeting (EuCOMC XXV), Alcalá de Henares, Spain, September 2023.

151. *Unleashing new patterns of chemical reactivity with electron rich Main Group compounds*. Plenary lecture at Modern Trends in Inorganic Chemistry (MTIC XX), Bangalore, India, December 2023.

152. *Engineering novel patterns of germylene and stannylene reactivity*. Invited lecture at IIT Madras, India, December 2023.