

PUBLICATION LIST - Prof. Cameron Jones (December 2008)**Review Articles**

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3. C. Jones, *Specialist Periodical Reports - Organometallic Chemistry - Group V, P, As, Sb, Bi 1997*, volume 27, Royal Society of Chemistry, 1999, 347.
4. C. Jones, *Specialist Periodical Reports - Organometallic Chemistry - Group V, P, As, Sb, Bi 1998*, volume 28, Royal Society of Chemistry, 2000, 138.
5. C. Jones, *Specialist Periodical Reports - Organometallic Chemistry - Group V, P, As, Sb, Bi 1999*, volume 29, Royal Society of Chemistry, 2001, 153.
6. C. Jones, *Specialist Periodical Reports - Organometallic Chemistry - Group V, P, As, Sb, Bi 2000*, volume 30, Royal Society of Chemistry, 2002, 159.
7. C. Jones, Recent Developments in Low Coordination Organo-Antimony and Bismuth Chemistry, *Coord. Chem. Revs.*, 2001, **215**, 151-169.
8. C. Jones, The Stabilisation and Reactivity of Indium Trihydride Complexes, *Chem. Commun.*, (Feature Article), 2001, 2293 - 2299.
9. R.J. Baker and C. Jones, "GaI": A Versatile Reagent for the Synthetic Chemist, *Dalton Transactions* (Perspective Article), 2005, 1341-1348.
10. R.J. Baker and C. Jones, The Coordination Chemistry and Reactivity of Group 13 Metal(I) Heterocycles, *Coord. Chem. Revs.*, 2005, **249**, 1857-1869.

Chapters

11. ^{31}P NMR Studies on Transition Metal Complexes Derived From Phosphaalkynes, Phosphirenes and Phosphiranes, F.A. Ajulu, R. Bartsch, D. Carmichael, J.A. Johnson, C. Jones, John F. Nixon, *Phosphorus-31 NMR Spectral Properties in Compound Characterization and Structural Analysis*, L.D. Quin and J.G. Verkade (eds.), VCH publishers, 1994, chapter 8, 229-242.

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16. Intraoperative Dosimetry of Y-90 in Liver Tissue., M.A. Burton, B.N. Gray, C. Jones, A. Colletti, *Int. J. Radiation Appl. Inst.*, 1989, **16B**, 495.
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173. Synthesis and Characterisation of Sterically Bulky Lithium Amidinate and Bis-amidinate Complexes, R.J. Baker and C. Jones, *J. Organomet. Chem.*, 2006, **691**, 65-71.

174. The Reactivity of Gallium (I), (II) and (III) Heterocycles Towards Group 15 Substrates: Attempts to Prepare Gallium-Terminal Phictinidene Complexes, R.J. Baker, C. Jones, D.P. Mills, D.M. Murphy, E. Hey-Hawkins, and R. Wolf, *Dalton Trans.*, 2006, 64-72.
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177. Four-membered Group 13 Metal(I) N-Heterocyclic Carbene Analogues: Synthesis, Characterization and Theoretical Studies, C. Jones, P.C. Junk, J.A. Platts and A. Stasch, *J. Am. Chem. Soc.*, 2006, **128**, 2206 - 2207.
178. Synthesis, Structural Characterization and Theoretical Studies of Magnesium and Calcium-Gallyl Complexes Containing the First Direct Group 13 Metal-Group 2 Bonds, C. Jones, D.P. Mills, J.A. Platts and R.P. Rose, *Inorg. Chem.*, 2006, **45**, 3146 - 3148.
179. Bulky Amidinato Complexes and Amidine Adducts of Al, Ga and In Halides, C. Jones, P.C. Junk, M. Kloth, K.M. Proctor and A. Stasch, *Polyhedron*, 2006, **25**, 1592 - 1600.
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182. Complexes of a Gallium Heterocycle with Transition Metal Sandwich, Half Sandwich and Dialkyl Fragments, S. Aldridge, R.J. Baker, N.D. Coombs, C. Jones, R.P. Rose, A. Rossin and D.J. Willock, *Dalton Trans.*, 2006, 3313 - 3320.
183. An X-ray Crystallographic Study of the Diphosphacyclobutenyl Gallium Complex, $[\text{GaI}_2\{\text{C}(\text{Bu}^\dagger)\text{P}(\text{H})\text{C}(\text{Bu}^\dagger)=\text{P}\}]_2$, M.D. Francis, C. Jones and D.P. Mills, *Main Group Metal Chemistry*, 2006, **29**, 117 – 118.
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187. Cationic Terminal Borylene Complexes: Structure/Bonding Analysis and [4+1] Cycloaddition Reactivity of a BN Vinylidene Analogue, S. Aldridge, C. Jones, T. Gans-Eichler, A. Stasch, D.L. Kays (née Coombs), N.D. Coombs and D.J. Willock, *Angew. Chem. Int. Ed. Engl.*, 2006, **45**, 6118 - 6122.
188. Synthetic, Structural and Theoretical Studies of Amidinate and Guanidinate Stabilised Germanium(I) Dimers, S.P. Green, C. Jones, P.C. Junk, K.-A. Lippert, and A. Stasch, *Chem. Commun.*, 2006, 3978 - 3980.

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195. Homo- and Heteroleptic Complexes of Four-membered Group 13 Metal(I) N-Heterocyclic Carbene Analogues with Group 10 Metal(0) Fragments, S.P. Green, C. Jones and A. Stasch, *Inorg. Chem.*, 2007, **46**, 11 - 13.
196. Base Stabilized Amido-Diarsenes: Synthesis, Structure and Theoretical Studies, S.P. Green, C. Jones, G. Jin and A. Stasch, *Inorg. Chem.*, 2007, **46**, 8 - 10.

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209. Stable Magnesium(I) Compounds with Mg-Mg Bonds, S.P. Green, C. Jones and A. Stasch, *Science*, 2007, **318**, 1754-1757.
210. Investigations into the Preparation of Group 13 - 15 N-Heterocyclic Carbene Analogues, R.J. Baker, C. Jones, D.P. Mills, G.A. Pierce and M. Waugh, *Inorg. Chim. Acta*, 2008, **361**, 427-435.
211. Unusual Reactivity of Methylphosphaalkyne ($\text{P}\equiv\text{CMe}$) Towards Digermenes and Distannenes: Stepwise Formations of Bridged 2,3,5,6-Tetraphospha-1,4-dimethylidenecyclohexanes, C. Jones, C. Schulten and A. Stasch, *Inorg. Chem.*, 2008, **47**, 1273-1278.
212. Synthesis, Characterization and Reactivity of a η^1 -Methylphosphaalkyne Complex, $[\text{RuH}(\text{dppe})_2(\eta^1\text{-P}\equiv\text{CMe})][\text{CF}_3\text{SO}_3]$, C. Jones, C. Schulten and A. Stasch, *Eur. J. Inorg. Chem.*, 2008, 1555-1558.
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214. Group 13 Metal(I) and (II) Guanidinate Complexes: Effect of Ligand Backbone on Metal Oxidation State and Coordination Sphere, J. Guoxia, C. Jones, P.C. Junk, A. Stasch, W.D. Woodul, *New J. Chem.*, 2008, **32**, 835-842.
215. Synthesis, Characterisation and Reactivity of Germanium(II) Amidinate and Guanidinate Complexes, C. Jones, R.P. Rose and A. Stasch, *Dalton Trans.*, 2008, 2871-2878.
216. Crystal Structure of a 1,4-Diphosphabutadiene Gallium Iodide Complex, $[(I_3Ga)_2\{P(C_6H_2Bu^t_{3-2,4,6})CH_2\}_2] \cdot (C_7H_8)$, T. Gans-Eichler, C. Jones, S. Aldridge and A. Stasch, *Anal. Sci.: X-Ray Struct. Anal. Online*, 2008, **24**, x109-x110.
217. Synthesis and Structural Characterisation of Group 10 Metal(II) Gallyl Complexes: Analogies with Platinum Diboration Catalysts?, C. Jones, D.P. Mills, R.P. Rose and A. Stasch, *Dalton Trans.*, 2008, 4395-4408.
218. Flexible Coordination of Bulky Amidinates and Guanidates Towards Rhodium(I): Conversion of Kinetic to Thermodynamic Isomers, C. Jones, D.P. Mills and A. Stasch, *Dalton Trans.*, 2008, 4799-4804.
219. Synthesis and Characterization of Iron(I) Amidinate Complexes: Analogies with β -Diketiminato Chemistry, R.P. Rose, C. Jones, C. Schulten, S. Aldridge and A. Stasch, *Chem. Eur. J.*, 2008, **14**, 8477-8480.
220. Cycloaddition Reactions of Transition Metal Hydrazides with Alkynes and Heteroalkynes: Coupling of $Ti=NNPh_2$ with $PhCCMe$, $PhCCH$, $MeCN$ and $tBuCP$, J.D. Selby, C. Schulten, A.D. Schwarz, A. Stasch, E. Clot, C. Jones and P. Mountford, *Chem. Commun.*, 2008, 5101-5103.
221. Stable Adducts of a Dimeric Magnesium(I) Compound, S.P. Green, C. Jones and A. Stasch, *Angew. Chem. Int. Ed.*, 2008, **47**, 9079-9083.

222. Synthesis and Structural Characterisation of a Soluble, Metastable Indium(I) Halide Complex, [InBr(tmeda)], S.P. Green, C. Jones and A. Stasch, *Chem. Commun.*, 2008, 6285.
223. Synthesis and Characterisation of Bulky Guanidines and Phosphaguanidines: Precursors for Low Oxidation State Metallacycles, G. Jin, C. Jones, P.C. Junk, K.-A. Lippert, R.P. Rose and A. Stasch, *New J. Chem.*, in press.
224. Gallyl Lanthanide Complexes Containing Unsupported Ln-Ga (Ln = Sm, Eu, Yb or Tm) Bonds, C. Jones, A. Stasch and W.D. Woodul, *Chem. Commun.*, in press.
225. Gallium? Uranium s- and p-Donation in a Covalent U-Ga Bond, S.T. Liddle, J. McMaster, D.P. Mills, A.J. Blake, C. Jones, W.D. Woodul, *Angew. Chem. Int. Ed.*, in press.
226. Complexes of Four-Membered Group 13 Metal(I) N-Heterocyclic Carbene Analogues with Platinum(II) Fragments, G.J. Moxey, C. Jones, A. Stasch, P.C. Junk, G.B. Deacon, W.D. Woodul and P.R. Drago, *Dalton Trans.*, submitted.

Invited Lectures

1. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department, Tohoku University, Sendai, Japan, April 1995.
2. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department, University of Leeds, February, 1996.
3. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department, Imperial College of Science, Medicine and Technology, April, 1996.
4. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department Monash University, Australia, July, 1996

5. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department University of Western Australia, August 1996.
6. "New Directions in Low Coordination Group 15 Chemistry", Chemistry Department University of Waterloo, Canada, April 1997.
7. RSC Sponsored Lecture - "The Low Coordination Chemistry of Arsenic and Antimony" Chemistry Department, University of Wales, Cardiff, October 1997.
8. "The Low Coordination Chemistry of Arsenic and Antimony", Chemistry Department, Durham University, February, 1998.
9. "The Low Coordination Chemistry of Arsenic and Antimony", Chemistry Department, University of Colorado, Boulder, USA, April, 1998.
10. "The Low Coordination Chemistry of Arsenic and Antimony", Chemistry Department, University of Ohio, Athens, USA, April, 1998.
11. "The Low Coordination Chemistry of Arsenic and Antimony", Chemistry Department, University of Bath, May, 1998.
12. "The Stabilisation of Indium Hydride Complexes" Chemistry Department, Sussex University, February, 1999.
13. "The Stabilisation of Indium Hydride Complexes" Chemistry Department, Exeter University, March, 1999.
14. "The Stabilisation of Indium Hydride Complexes" Chemistry Department, King's College London, March, 1999.
15. "The Stabilisation of Indium Hydride Complexes" invited lecture at 5th International Anglo/German Meeting on Inorganic Chemistry Sussex University, July, 1999.

16. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, Oxford University, February, 2000.
17. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, Bristol University, March, 2000.
18. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, Southampton University, May, 2000.
19. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, Nottingham University, May, 2000.
20. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, University of Western Australia, July, 2000.
21. "The Stabilisation and Reactivity of Indium Hydride Complexes"
Chemistry Department, James Cook University, Townsville, Australia, July, 2000.
22. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, University of Münster, Germany, February, 2001.
23. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, University of Leipzig, Germany, February, 2001.
24. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, UMIST, November, 2001.
25. RSC sponsored lecture - "The Synthetic Versatility of Phosphavinyl Grignard Reagents" Chemistry Department, Cardiff University, December, 2001.
26. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, Cambridge University, January, 2002.

27. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, Sheffield University, January, 2002.
28. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, Leeds University, January, 2002.
29. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, Newcastle University, May, 2002.
30. "The Synthetic Versatility of Phosphavinyl Grignard Reagents"
Chemistry Department, Monash University, Australia, July, 2002.
31. "Developments in Low Oxidation State Gallium and Indium Chemistry"
invited lecture at the RSC meeting on New Strategies in Metal Chemistry.
Chemistry Department, Nottingham University, February, 2003.
32. "The Stabilisation and Coordination Chemistry of a Gallium(I) Carbene Analogue"
Chemistry Department, Imperial College, March, 2003.
33. "The Stabilisation and Unusual Reactivity of a Gallium(I) N-Heterocyclic Carbene Analogue" invited lecture of the German Chemical Society, Chemistry Department, Leipzig University, Germany, December, 2003.
34. "The Stabilisation and Unusual Reactivity of a Gallium(I) N-Heterocyclic Carbene Analogue" Chemical Engineering Department, University of Applied Sciences, Münster, Germany, December, 2003.
35. RSC sponsored lecture – "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes" Chemistry Department, Warwick University, February, 2004.
36. Invited Key Note Speaker at the 16th International Conference on Phosphorus Chemistry, "The Synthetic Versatility of Phosphavinyl Grignard Reagents", Birmingham, UK, July, 2004.

37. Invited Session Lecturer at the 36th International Conference on Coordination Chemistry, "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?", Merida, Mexico, July, 2004.
38. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Research School of Chemistry, Australian National University, August, 2004.
39. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, Monash University, Australia, August, 2004.
40. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, University of Adelaide, Australia, August, 2004.
41. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, University of Western Australia, August, 2004.
42. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, University of Bath, November, 2004.
43. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, Strathclyde University, December, 2004.
44. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, Oxford University, February, 2005.
45. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Chemistry Department, St. Andrews University, May 2005.
46. "Anionic Gallium(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" Invited lecture of the German Chemical Society, University of Münster, May 2005.
47. "Anionic Group 13 Metal(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?" University of Manchester, November, 2005.

48. "Group 13 Metal(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?"
Texas Christian University, December, 2005.
49. "Group 13 Metal(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?"
University of Texas at Austin, December, 2005.
50. "Group 13 Metal(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?"
University of California at Davis, December, 2005.
51. "Triphosphaebene and Triphosphacyclohexadienyl Complexes: Useful Precursors in Phosphoorganometallic Synthesis and Phosphinidene Transfer Reactions", invited session lecture, Pacificchem 2005, Hawaii, December 2005.
52. "Group 13 Metal(I) Heterocycles: Analogies with N-Heterocyclic Carbenes?"
Reading University, February, 2006.
53. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-Heterocyclic Carbene Analogues", Bristol Main Group Chemistry Symposium, July, 2006
54. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", Bochum University, Germany, November, 2006
55. "Aspects of Low Oxidation State Main Group Chemistry" Invited Plenary Lecture at the Royal Australian Chemical Institute's IC07 Conference, Hobart, February, 2007.
56. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", Melbourne University, Melbourne, April, 2007.
57. "Stabilisation and Reactivity Studies of Low Oxidation State Metal Heterocycles",
University of California, Davis, June, 2007.
58. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", Texas A and M, College Station, Texas, June, 2007.

59. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", Invited Plenary Lecture, RSC Main Group Interest Group meeting, Bristol, July, 2007.
60. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", Los Alamos National Laboratory, New Mexico, July, 2007.
61. "Stabilisation and Reactivity Studies of Low Oxidation State Metal Heterocycles", Texas Christian University, July, 2007.
62. "Stabilisation and Reactivity Studies of Low Oxidation State Metal Heterocycles", University of Texas, Austin, July, 2007.
63. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", University of New South Wales, October, 2007.
64. "Low Oxidation State Metalloacycles: Stabilization and Reactivity Studies", Invited Lecture, Main Group Chemistry Symposium, Nottingham University, October, 2007.
65. "Low Oxidation State Metalloacycles: Stabilization and Reactivity Studies", Oxford University, October, 2007.
66. "Group 13 Metal(I) Heterocycles: Metal Donor Lewis Bases and N-heterocyclic Carbene Analogues", University of Texas at Arlington, November, 2007.
67. "Low Oxidation State Metalloacycles: Stabilization and Reactivity Studies", Invited Plenary Lecture, Heavier Heterocycles and Heteroatoms Conference, Cancun, Mexico, February, 2008.
68. "Bulky Guanidates: New Ligands for the Stabilisation of Very Low Oxidation State Metalloacycles" School of Chemistry, Southern Methodist University, Texas, March, 2008.

69. "Bulky Guanidines: New Ligands for the Stabilisation of Very Low Oxidation State Metallacycles" School of Chemistry, Texas Christian University, Texas, March, 2008.
70. "Bulky Guanidines: New Ligands for the Stabilisation of Very Low Oxidation State Metallacycles" CSIRO Division of Health and Molecular Technologies, Melbourne, March, 2008.
71. "Bulky Guanidines: New Ligands for the Stabilisation of Very Low Oxidation State Metallacycles" School of Chemistry, Monash University, April, 2008.
72. "Synthesis and Structural Characterisation of Group 10 Metal(II) Gallyl Complexes: Analogies with Platinum Diboration Catalysts?", Invited Session Lecture, Dalton Discussion 11: The Renaissance of Main Group Chemistry, University of California, Berkeley, June, 2008.
73. "Bulky Guanidines: Alternatives to β -Diketiminates for the Stabilisation of low Oxidation State Metallacycles", Invited Session Lecture, International Conference on Organometallic Chemistry, Rennes, France, July, 2008.

Forthcoming Lectures

74. "The Remarkable Chemistry of Magnesium(I) Compounds", Invited Lecture, ACS National Meeting, Salt Lake City, USA, March, 2009.
75. "Bulky Guanidines: New Ligands for the Stabilisation of Very Low Oxidation State Metallacycles", Invited Session Lecture, 9th International Conference on Heteroatom Chemistry, Oviedo, Spain, July, 2009.
76. Group 2 Metal(I) Heterocycles: Stabilisation, Verification and Application. Invited Lecture, International Symposium on Inorganic Ring Systems (IRIS 12), Goa, India, August, 2009.