

PUBLICATIONS: W. CLEGG 1984

114. Crystal structures of $(\text{Ph}_2\text{C}=\text{NLi}\cdot\text{NC}_5\text{H}_5)_4$ and $[\text{ClLi}\cdot\text{O}=\text{P}(\text{NMe}_2)_3]_4$; discrete tetrameric pseudo-cubane clusters with bridging of Li_3 triangles by nitrogen and by chlorine atoms
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 79–80.
115. Toluene-*p*-sulphonate as a metal–metal bond bridging ligand; the crystal structure of $[\{\text{Rh}_2(6\text{-methylpyridin-2-olato})_3(p\text{-MeC}_6\text{H}_4\text{SO}_2\text{O})\}_2]\cdot\text{Et}_2\text{O}$
W. Clegg, L. Akhter and C. D. Garner.
J. Chem. Soc. Chem. Commun. 1984, 101–102.
116. X-ray crystal structure of $\{\text{Li}[\text{O}=\text{P}(\text{NMe}_2)_3]_4\}^+\cdot\{\text{Li}_5[\text{N}=\text{CPh}_2]_6\cdot[\text{O}=\text{P}(\text{NMe}_2)_3]\}^-$: a lithium 'ate' complex, with a pentanuclear Li_5 clustered-anion having both μ_2 edge and μ_3 face nitrogen to lithium bonding
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 226–227.
117. Diffractometer control techniques
W. Clegg.
'*Methods and Applications in Crystallographic Computing*', ed. S. R. Hall and T. Ashida, O.U.P. 1984, 19–29.
118. Intensity measurement by diffractometry
W. Clegg.
'*Methods and Applications in Crystallographic Computing*', ed. S. R. Hall and T. Ashida, O.U.P. 1984, 30–40.
119. Trimeric dibenzylamidolithium and its dimeric diethyl ether and hexamethylphosphoramide complexes: structural and theoretical studies of reactive organonitrogen-lithium oligomers
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 285–287.
120. Evidence for $\text{CH}\cdot\text{Li}$ interactions in the solid state structure of dibenzylamidolithium, and in solutions of it and its complexes: coloured species due to benzyl→lithium charge transfer
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 287–289.
121. Propeller substituents imposing steric restraint on crown ethers
J. C. Lockhart, M. B. McDonnell and W. Clegg.
J. Chem. Soc. Chem. Commun. 1984, 365–367.
122. Structure of 2,2,4,4,6,6-hexa-*tert*-butylcyclotrisilazane, $[(\text{C}_4\text{H}_9)_2\text{SiNH}]_3$
W. Clegg, G. M. Sheldrick and D. Stalke.
Acta Cryst. 1984, **C40**, 433–434.
123. Structure of 1,1'-dimethylsilanediylbis(acetone phenylhydrazone), $\text{C}_{20}\text{H}_{28}\text{N}_4\text{Si}$
W. Clegg.
Acta Cryst. 1984, **C40**, 529–531.
124. Dimerisation of a silicenium ylid by methanide and silylamine migration
W. Clegg, U. Klingebiel, G. M. Sheldrick and D. Stalke.
J. Organomet. Chem. 1984, **265**, 17–25.

- 125.** Crystal structure of the pentamethyldiethylenetriamine adduct of 1-lithio-2-methyl-1,2-dicarbocloso-dodecaborane, $\text{Li}[\text{C}_2\text{B}_{10}\text{H}_{10}\text{Me}][\text{MeN}(\text{CH}_2\text{CH}_2\text{NMe}_2)_2]$, a compound containing a lithium atom terminally bonded to a six-coordinate carbon atom
W. Clegg, D. A. Brown, S. J. Bryan and K. Wade.
Polyhedron 1984, **3**, 307–311.
- 126.** The isolation and crystal structure of $[\text{Ph}(2\text{-Pyr})\text{NLi}] \cdot (\text{HMPA}) \cdot [\text{Ph}(2\text{-Pyr})\text{NH}]$; a model monomeric organonitrogen-lithium species containing co-ordination of lithium by both an anchimeric pyridyl N-atom and by a potentially reactive amine ligand
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 469–470.
- 127.** Preparation and crystal structure of trichloro(thionitrosyl)bis(triphenylphosphine)osmium, $[\text{Os}(\text{NS})\text{Cl}_3(\text{PPh}_3)_2]$
H. W. Roesky, K. K. Pandey, W. Clegg, M. Noltemeyer and G. M. Sheldrick.
J. Chem. Soc. Dalton Trans. 1984, 719–721.
- 128.** Preparation and crystal structures of two phosphorus-sulphur rings: $(\text{PhP})_3\text{S}_3$ and $(\text{PhP})_2\text{S}_4$
C. Lensch, W. Clegg and G. M. Sheldrick.
J. Chem. Soc. Dalton Trans. 1984, 723–725.
- 129.** Structure of bis(tetraphenylphosphonium) (dichlorodithioferrato-*S,S'*)disulphidooxomolybdate(2–) methyl cyanide solvate, $[\text{P}(\text{C}_6\text{H}_5)_4]_2 \cdot [\text{FeCl}_2\{\text{MoO}(\text{S}_2)\}(\text{S})_2] \cdot \text{C}_2\text{H}_3\text{N}$
W. Clegg, C. D. Garner and P. A. Fletcher.
Acta Cryst. 1984, **C40**, 754–756.
- 130.** Structure of tetrakis(*N*-methylimidazole-*N'*)copper(I) perchlorate, $[\text{Cu}(\text{C}_4\text{H}_6\text{N}_2)_4] \cdot [\text{ClO}_4]$
W. Clegg, S. R. Acott and C. D. Garner.
Acta Cryst. 1984, **C40**, 768–769.
- 131.** Structures of the *cis* and *trans* isomers of 2,4,6-tri-*tert*-butyl-2,4,6-trifluorocyclotrisilazane, $\text{C}_{12}\text{H}_{30}\text{F}_3\text{N}_3\text{Si}_3$
W. Clegg, G. M. Sheldrick and D. Stalke.
Acta Cryst. 1984, **C40**, 816–818.
- 132.** Structure of the 1:1 adduct of di-*tert*-butylfluorosilanol and pyridine *N*-oxide, $\text{C}_8\text{H}_{19}\text{FOSi} \cdot \text{C}_5\text{H}_5\text{NO}$
W. Clegg, G. M. Sheldrick, U. Klingebiel, D. Bentmann, G. Henkel and B. Krebs.
Acta Cryst. 1984, **C40**, 819–820.
- 133.** Structure of 1,3-di-*tert*-butyl-2,2,4,4-tetraisopropylcyclodisilazane, $\text{C}_{20}\text{H}_{46}\text{N}_2\text{Si}_2$
W. Clegg, M. Haase, G. M. Sheldrick and N. Vater.
Acta Cryst. 1984, **C40**, 871–873.
- 134.** The structural isomers of $\{[\text{Ph}(2\text{-pyridyl})\text{NLi}] \cdot [\text{O}=\text{P}(\text{NMe}_2)_3]\}_2$: dimeric species with alternative central $(\text{LiN})_2$ and $(\text{LiO})_2$ rings, the latter involving unprecedented neutral bridging oxygen ligands
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 700–701.
- 135.** Structure of bis- μ_3 -phenylimido-tris(tricarbonylruthenium), $[\text{Ru}_3(\text{C}_6\text{H}_5\text{N})_2(\text{CO})_9]$
W. Clegg, G. M. Sheldrick, D. Stalke, S. Bhaduri and K. S. Gopalkrishnan.
Acta Cryst. 1984, **C40**, 927–929.
- 136.** Structure of a novel μ_3 -oxo- $\text{Fe}_2^{\text{III}}\text{Cr}^{\text{III}}$ -glycine complex
W. Clegg, O. M. Lam and B. P. Straughan.
Angew. Chem. Internat. Edit. Engl. 1984, **23**, 434–435.

137. Bis[O-methyl (S)-penicillaminato]-cis-dioxomolybdenum(VI), $[\text{MoO}_2\{(S)\text{-pen-OMe}\}_2]$; structure and spectroscopic studies
I. Buchanan, C. D. Garner and W. Clegg.
J. Chem. Soc. Dalton Trans. 1984, 1333–1342.
138. Preparation, crystal structure, and spectroscopic characterization of $[\text{NEt}_4]_2[\text{Cu}(\text{SPh})_3]$
C. D. Garner, J. R. Nicholson and W. Clegg.
Inorg. Chem. 1984, **23**, 2148–2150.
139. Preparation and crystal structure of nonacarbonyl-di- μ -hydrido- μ_3 -phenylimido-triangulo-triruthenium, $[\text{Ru}_3(\mu\text{-H})_2(\text{CO})_9(\mu_3\text{-NPh})]$
S. Bhaduri, K. S. Gopalkrishnan, W. Clegg, P. G. Jones, G. M. Sheldrick and D. Stalke.
J. Chem. Soc. Dalton Trans. 1984, 1765–1767.
140. The refinement of unit cell parameters from two-circle diffractometer measurements
W. Clegg and G. M. Sheldrick.
Z. Krist. 1984, **167**, 23–27.
141. Structure of 2-hydroxyethanethiolatolead(II) nitrate, $\text{Pb}(\text{SCH}_2\text{CH}_2\text{OH})(\text{NO}_3)$, a sheet polymer
W. Clegg, I. L. Abrahams and C. D. Garner.
Acta Cryst. 1984, **C40**, 1367–1369.
142. The isolation and crystal structure of $\{\text{Li}\cdot(\text{H}_2\text{O})_2\cdot[\text{O}=\text{P}(\text{NMe}_2)_3]\}_2^{2+}\cdot 2\text{Cl}^-$: a $(\text{LiO})_2$ ring compound with bridging neutral oxygen (hexamethylphosphoramide) ligands
D. Barr, W. Clegg, R. E. Mulvey and R. Snaith.
J. Chem. Soc. Chem. Commun. 1984, 974–975.
143. Poly- and spirocyclic silylhydrazones – synthesis and molecular structures
O. Graalman, M. Hesse, U. Klingebiel, W. Clegg, M. Haase and G. M. Sheldrick.
Z. Anorg. Allg. Chem. 1984, **514**, 49–60.
144. Stepwise synthesis of chain and ring siloxanes – crystal structures
O. Graalman, U. Klingebiel, W. Clegg, M. Haase and G. M. Sheldrick.
Chem. Ber. 1984, **117**, 2988–2997.
145. Enhancements of the ‘auto-indexing’ method for cell determination in four-circle diffractometry
W. Clegg.
J. Appl. Cryst. 1984, **17**, 334–336.
146. Synthesis of mixed-metal clusters by the reaction of the unsaturated cluster $[\text{Os}_3(\mu\text{-H})_2(\text{CO})_{10}]$ with transition-metal hydrides: the X-ray crystal structures of $[\text{Os}_3\text{H}_3(\text{CO})_{10}\{\text{Cu}(\text{PPh}_3)\}]$ and $[\text{Os}_3\text{H}_3(\text{CO})_{11}\{\text{Ir}(\text{PPh}_3)\}]$
B. F. G. Johnson, J. Lewis, P. R. Raithby, S. N. Azman, B. Syed-Mustaffa, M. J. Taylor, K. H. Whitmire and W. Clegg.
J. Chem. Soc. Dalton Trans. 1984, 2111–2118.
147. Polyspiranes, 9. Cascade rearrangements, 4. On the usefulness of polyspiranes for entering energy surfaces of polycyclic systems – five- and ninefold 1,2-shifts in a pentaspiro[3.0.2.0.3.0.2.0.3.1]nonadecane
L. Fitjer, W. Kühn, U. Klages, E. Egert, W. Clegg, N. Schormann and G. M. Sheldrick.
Chem. Ber. 1984, **117**, 3075–3092.
148. Preparation and X-ray crystal structure of the complex μ -chloro-bis[bis(imidazole)copper(I)] chloride
W. Clegg, S. R. Acott and C. D. Garner.
J. Chem. Soc. Dalton Trans. 1984, 2581–2583.

149. Orientation matrix refinement during four-circle diffractometer data collection
W. Clegg.
Acta Cryst. 1984, **A40**, 703–704.
150. Structure of μ -amido- μ -formato-bis[tetraamminecobalt(III)] tetrachloride tetrahydrate, $[\text{Co}_2\text{NH}_2(\text{CHO}_2)(\text{NH}_3)_8]\text{Cl}_4 \cdot 4\text{H}_2\text{O}$
W. Clegg and A. G. Sykes.
Acta Cryst. 1984, **C40**, 1820–1821.
151. Structure of trisodium bis(nitrilotriacetato)ferrate(III) pentahydrate, $\text{Na}_3[\text{Fe}\{\text{N}(\text{CH}_2\text{CO}_2)_3\}_2] \cdot 5\text{H}_2\text{O}$
W. Clegg, A. K. Powell and M. J. Ware.
Acta Cryst. 1984, **C40**, 1822–1824.
152. Crystal structure of $[\text{FeCr}_2(\mu_3\text{-O})(\text{CH}_3\text{COO})_6(\text{H}_2\text{O})_3]\text{FeCl}_4 \cdot 2(\text{CH}_3)_2\text{CO} \cdot \text{CH}_3\text{OH}$
W. Clegg, O. M. Lam and B. P. Straughan.
Inorg. Chim. Acta 1984, **90**, L75–L76.
153. Crystal structure and catalytic properties of a platinum-iridium mixed cluster, $[\text{Pt}_2\text{Ir}_2(\mu\text{-CO})_3(\text{CO})_4(\text{PPh}_3)_3]$
S. Bhaduri, K. R. Sharma, W. Clegg, G. M. Sheldrick and D. Stalke.
J. Chem. Soc. Dalton Trans. 1984, 2851–2853.
154. Synthesis of a stable aminosilanol and a lithium aminosilanolate with cubane structure
O. Graalmann, U. Klingebiel, W. Clegg, M. Haase and G. M. Sheldrick.
Angew. Chem. Internat. Edit. Engl. 1984, **23**, 891–892.
155. Structure of bis(μ_3 -phenylimido)-tris(tricarbonyliron)(2Fe–Fe), $[\text{Fe}_3(\text{C}_6\text{H}_5\text{N})_2(\text{CO})_9]$
W. Clegg, G. M. Sheldrick, D. Stalke, S. Bhaduri and H. K. Khwaja.
Acta Cryst. 1984, **C40**, 2045–2047.
156. Structure of (di-*tert*-butylmethyleneamino)diphenylborane, $\text{C}_{21}\text{H}_{28}\text{BN}$
W. Clegg, S. J. Bryan and K. Wade.
Acta Cryst. 1984, **C40**, 2082–2084.
157. The *in situ* preparation of 2-sulfidophenolate ligands by copper-catalyzed oxygen insertion into thiophenolates; crystal structure of $[\text{PPh}_4]_2[\text{Mo}_2\text{O}_5(\text{SC}_6\text{H}_4\text{O})_2]$
C. D. Garner, J. R. Nicholson and W. Clegg.
Angew. Chem. Internat. Edit. Engl. 1984, **23**, 972–973.
158. Functional siloxanes and cyclotetrasiloxanes – molecular structure of a cycloboratrissiloxane
O. Graalmann, U. Klingebiel, W. Clegg, M. Haase and G. M. Sheldrick.
Z. Anorg. Allg. Chem. 1984, **519**, 87–95.
159. Crystal structure of caesium tetroxalate dihydrate, $\text{Cs}(\text{HC}_2\text{O}_4)(\text{H}_2\text{C}_2\text{O}_4) \cdot 2\text{H}_2\text{O}$
W. Clegg.
Z. Krist. 1984, **169**, 211–217.